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Since we last visited with Macy's Services 13 years ago, the company's focus has tilted from septic service toward portable sanitation, but the same hardworking family still answers the phone. Shown, from left, are Justin, David, Bobbie and Dwight Reppa with their 2023 Mack MD7 with a 2,500-gallon aluminum tank and Masport pump built out by KeeVac Industries. (Photo by Kathryn Ziesig)

COMING IN MAY

➤ **SNAPSHOT:** Big three challenges in Wisconsin

➤ **PROFILE:** He was born to be a pumper

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Contact Jim with your comments, questions and opinions at editor@pumper.com.

Jim Kneiszel
Editor

Another Sad Reminder About Lid Safety

After two more children perish in septic tanks with unsecured access points, we need to educate the public about the importance of routine safety inspections

By Jim Kneiszel

We can never put too much emphasis on septic tank security. Evidence of that is the recent deaths of two young children after they fell into open septic tanks. Unfortunately, I see news accounts of these tragic events every year and it seems like regulators, law enforcement and local governments are not finding effective ways to prevent them.

How can that be when we are well aware of the dangers of unsecured septic tanks? What will it take for all parties involved to get together and stop the neglect that allows children to die? It is up to the governments that oversee septic maintenance programs, concerned citizens and the septic service industry to push for stronger rules over securing access to underground tanks.

For years it has been a goal to bring access to the surface by utilizing risers and lids on existing and new septic tanks. Doing this makes it easier to perform routine inspections that are so important to maintaining quality systems for the long haul. And going back at least 15 years, I have seen our industry manufacturers selling secondary safety products — such as plastic screens — at the WWETT Show (formerly the Pumper & Cleaner Expo). These products are designed for installation inside risers to protect against children falling into tanks if the primary lid is damaged or removed.

So we are well aware of the issue of lid safety. Yet people interviewed in media accounts of these deaths always seem surprised that something like this could happen. Whether it's a law enforcement spokesperson or a local government leader, they typically refer to these incidents as "accidents" as if they were unforeseen and could not be prevented. I think pumping professionals would take issue with that.

In the past I have repeated what I have heard from some really great pumpers and wastewater industry leaders: Never walk away from a septic tank until it is safely secured to protect passersby, especially curious children. This is the responsibility of septic service providers, but also of local health departments to regulate onsite system care, property owners and landlords, and the general public.

Let's once again put a face on this problem.

Just a few months ago, 3-year-old Kenna Harper Wilson was at her babysitter's house in Versailles, Indiana, when she went missing in the yard. She was found unresponsive in the septic tank. News accounts said it appeared the girl moved the septic tank lid and fell or climbed into the tank. No one quoted

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in the stories questioned how she could have removed the lid. According to her obituary, Kenna was "full of life" and that her "bright and joyous smile will be so missed by her family."

According to a story in *WXIX/Gray News*, authorities said the death was ruled accidental. "My heart goes out to [Kenna's mother], but there are some situations that are terrible accidents," said Ripley County Prosecutor Ric Hertel.

About the same time on the Caribbean island of Granada, 4-year-old Sharmon Gibbs was found unresponsive inside an open septic tank. His death remains under investigation.

Manufactured lids and risers are designed for safe and secure installation. Service providers must follow proper installation procedures when they close the tanks and should note any damage or missing screws and insist on fixing these problems before leaving the property. Property owners should be instructed on how to routinely inspect lids for safety. All state and local government codes should call for routine system inspections that include safe and secure access points.

Please do whatever you can to educate consumers and your local health departments about septic tank safety. Our children, in particular, are depending on us to be leaders on this important issue.

Idaho county has grim report on aging systems

A veteran health department inspector recently reported a poor performance record for the approximate 4,000 septic systems in Blaine County, Idaho. With growth in the area and new residential developments proposed to utilize septic systems, there is concern about the condition of



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BETWEEN THE LINES

existing systems and regulation of septic systems in general.

According to a story in the *Idaho Mountain Express*, former environmental health specialist Bob Erickson spoke at a public comment session, saying most residents knew very little about the function of their septic systems. Over many years, he worked with Blaine County officials to review and inspect all septic systems and found “about 75% of them had some issues. Some small and minor, but some major and some nonfunctioning.”

The county does not require routine inspection of septic systems that are used by about 35% of residents. County officials said a lack of monitoring leads to neglected septic systems and potential failures that could impact sources of freshwater. The county started an Onsite Wastewater Management Program in 2007, but that effort was discontinued in 2009 and never resurrected.

The Idaho Department of Environmental Quality recommends systems are pumped every three to five years, but whether it happens is left up to the homeowners.

People are just not thinking about it unless there’s a problem,” said Allison Kennedy, Blaine County planner. “But it’s a pretty important piece of infrastructure.”

Does this sound familiar? The same discussions might be happening in a county near you. Unless your state or local governing body is on top of this issue. In Wisconsin, where I live, all septic tanks require inspection or pumping every three years.

Be sure to lock your service truck

Coming into the busy season for most pumpers, a recent incident offers a good reminder about protecting your equipment from theft while you’re out working a route.

According to a report from Fox 61 in Hartford, Connecticut, an 18-year-old man, Donovan Beard, illegally took a septic service truck, hit a state trooper’s squad car and then took off on foot after a reported disturbance. Beard was arrested on two counts of criminal mischief, larceny, interfering with an officer, breach of peace, criminal attempt to assault and reckless endangerment.

I imagine the incident ruined the day of the owner of the vacuum truck. Your truck is your moneymaker, and pumpers need to keep them safely running down the road, especially in the busy spring and summer months. A case of theft and criminal damage to property like this one could threaten a pumper’s livelihood and unfairly hurt a good reputation.

It’s important to take security measures to protect your valuable equipment in the field. And now that many more trucks are built with automatic transmissions, be aware that more would-be thieves could actually drive your rig away if you leave the door unlocked and the key in the ignition. In the good old days, 10-speed manual transmissions offered more of a theft deterrence.

Keep those Classy Trucks coming

As spring comes along, it’s show-and-shine time for pumpers interested in appearing in our Classy Truck feature. As you get out more often to wash and wax your favorite rig, consider snapping some photos with your smartphone and sending them to us to run in *Pumper* magazine. We’re always looking for photos of new trucks produced by the quality craftsmen at our tank manufacturers, as well as great refurbish and restoration projects. Send photos to editor@pumper.com.

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SEASONAL REVENUE

Balancing the Ups and Downs

In order to ensure business resilience in a fluctuating seasonal economy, Dwight Woelkers successfully transitioned Royden Clemens Excavating into Clemens Septic Service. His primary focus has shifted to septic pumping and repairs, but he maintains excavation as a strategic sideline.

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CHANGING JOB MARKET

How to Stay Relevant

The average wages for trade workers is increasing, according to Associated General Contractors. That could be good news for job seekers, but the tight labor market can make this difficult for businesses. This online article offers tips for navigating the new employment market. [pumper.com/featured](#)

“Workers’ comp operates by its own set of rules, its own set of principles, its own set of laws. Employers who figure that out quickly function better in it.”

– Navigating the Legal Pitfalls of Workers’ Comp

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REPLACING SYSTEMS

Why Sewer Gas Odors Can Increase

Septic services professionals who replace failing systems can get customer phone calls complaining about sewer gas odors and implying they did something wrong during the job. Learn what to discuss with homeowners when replacing systems and how you can locate and mitigate sewer gas odors.

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HOME SERVICE BUSINESSES

Is 2024 a Defining Year?

Business owners in the home service sector are bracing for a year that promises both challenges and opportunities. It's not just about the rapid advancements in artificial intelligence, which are undeniably reshaping consumer expectations. Equally significant is the global climate of numerous elections influencing consumer sentiment in subtle yet profound ways.

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Over 40 years, Macy's Services has adeptly adjusted its service menu to match the diverse needs of its Wyoming neighbors

By Ken Wysocky

When opportunity knocks at Macy's Services in Jackson, Wyoming, someone is always eager to answer the door. And by doing so, owners Dwight and Bobbie Reppa have slowly transformed the business from providing primarily septic services into a fully diversified business.

The biggest business segment now is portable restroom rentals and service. The company also cleans and inspects sewers, pumps out grease traps and delivers potable water, says Justin Reppa, Bobbie and Dwight's son.

What's the company's secret sauce for repeated business expansions?

"We give customers what they ask for," says Justin, 25, the company's safety and fleet manager. He also manages the portable restroom arm of the business. His brother, David, handles the septic side, while Dwight oversees company operations and Bobbie manages the office.

Over the years, the company has built a reputation for problem-solving.

"When someone has a weird project, people will tell them to call Macy's," Justin says. "They'll call my dad and say, 'Dwight, can you do

this?' And even if we never did it before, we figure out how to help."

As an example, he says his father recently created a constructed, cascading stream that flows between several ponds on a large property outside of Jackson. It required a lift station and multiple pumps that his father had never installed before. But he figured out how to do it.

That let's-give-it-a-try mentality was instilled in the company's DNA by founders Jim and Lee Macy (Bobbie's parents), who established the company in 1983, he says.

For example, back in the 1980s, Jim Macy bought a used municipal water jetter to clean sewers after someone approached him and requested that service. He also invested in portable restrooms when a customer asked if he could provide them, Justin says.

"That mentality carried over to my father," he says. "And I try to operate the same way myself. If we can do something that someone asks for, we make it happen."

The company also started pumping out grease traps in 2000, once again in response to customers' requests.



“ WE COULD’VE GROWN EVEN MORE, BUT WE CAN ONLY GROW SO QUICKLY BECAUSE THE LABOR MARKET IS REALLY TOUGH IN OUR COUNTY. IT’S NOT UNCOMMON TO SEE 12 TO 13 PAGES OF WANT ADS IN THE LOCAL PAPER. ”

— TIM HACK

▲ The Macy’s Services team includes, from left, David Reppa, Justin Reppa, Kelly Ryan, David Jimenez, Justin Forsberg, Bill Clark, Frank Thomas, Tyler Griffin, Bobbie Reppa, Dwight Reppa, Mario Juarez, Alberto Juarez, Claudio Arenas Luna and Randy Hoffman. (Photos by Kathryn Ziesig)

RESTROOMS DRIVE GROWTH

Macy’s has grown significantly since the company was first profiled in *Pumper* in 2011. A lot of that growth stemmed from a major shift into portable restroom rentals, which in turn was driven by a sharp increase in construction activity during the last five or so years, according to Justin.

Today, portable sanitation generates about 50% of the company revenue, septic tank pumping kicks in about 15%, sewer cleaning contributes around 15% and the rest comes from pumping grease traps, septic system repairs and inspections, and potable water delivery.

By comparison, portable sanitation contributed only about 25% of the company’s revenue in 2011 when the

business ran just two restroom routes five days a week with two full-time technicians and one part-timer, he notes.

“Now we have five full-time restroom technicians and one part-time technician,” Justin explains. “And we run five routes three days a week, cleaning anywhere from 170 to 200 restrooms along the way, and then run three routes two days a week, cleaning about 100 restrooms a day.

“Some of our guys make more than 30 stops a day,” Reppa adds. “They cover a lot of hours — we have a very dedicated crew.”

The construction growth stems from a hot commercial and residential market, with people tearing down older houses to make way for larger modern homes. Keeping up with demand has been



Macy’s Services

Jackson, Wyoming

- OWNERS:** Dwight, Bobbie and David Reppa
- FOUNDED:** 1983
- EMPLOYEES:** 13
- SERVICE AREA:** 50-mile radius
- SERVICES:** Septic pumping, system inspections and repairs; portable sanitation, potable water delivery and sewer cleaning
- WEBSITE:** macysservices.com

▶ Pumper PROFILE

RETURN ENGAGEMENT



▲ Technician Mario Juarez prepares to service restrooms at the National Elk Refuge and Greater Yellowstone Visitor Center in Jackson, Wyoming. Macy's Services restrooms are from Satellite Industries and PolyJohn.



▲ Technician Juarez pours holding tank recharge water from his service truck, a Ford F-600 built out by KeeVac Industries and running a Masport pump.

difficult, Justin says, noting the company added more than 200 restrooms in the last three years.

"We could've grown even more, but we can only grow so quickly because the labor market is really tough in our county," he says. "It's not uncommon to see 12 to 13 pages of want ads in the local paper.

"Most of our hires come through by word-of-mouth referrals," Justin continues. "It's a huge plus when you have employees that actively advocate for us because they enjoy working here so much."

INVEST IN EQUIPMENT

To service restrooms, Macy's relies on a 2017 Ram 5500 with a 400-gallon waste/200-gallon freshwater stainless steel tank from Best Enterprises; a 2017 Ram 5500 with a 700-gallon waste/500-gallon freshwater aluminum tank from Progress Tank; a 2017 Ram 5500 with a 500-gallon waste/300-gallon freshwater steel, self-fabricated tank; a 2020 Ram 5500 with a 700-gallon waste/300-gallon stainless steel tank from KeeVac Industries; 2014, 2017 and 2020 Ram 5500s, each equipped with a 700-gallon waste/400-gallon freshwater stainless steel tank from Best; and a 2022 Ford F-600 with a 700-gallon waste/400-gallon freshwater stainless steel tank from KeeVac. All the trucks feature Masport pumps.

Macy's also owns about 750 portable restrooms from Satellite Industries and PolyJohn; about 20 hand-wash stations from PolyJohn; and five restroom trailers for special events - four from JAG Mobile Solutions and one from Forest River Mobile Restrooms.

On the septic side of the business, the company owns a 2004 Peterbilt 330 with a

“ MOST OF OUR HIRES COME THROUGH BY WORD-OF-MOUTH REFERRALS. IT'S A HUGE PLUS WHEN YOU HAVE EMPLOYEES THAT ACTIVELY ADVOCATE FOR US BECAUSE THEY ENJOY WORKING HERE SO MUCH. ”

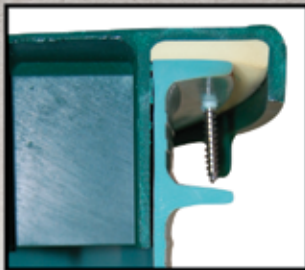
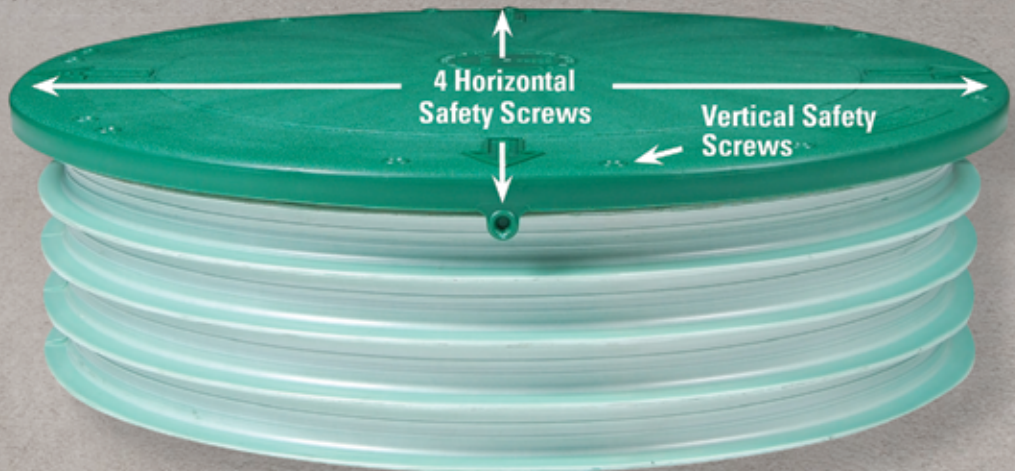
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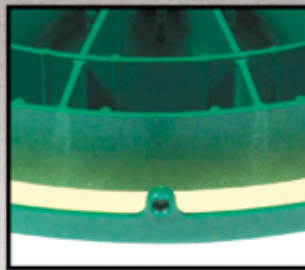
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► Pumper PROFILE

RETURN ENGAGEMENT



Justin Reppa, right, and technician Tyler Griffin, return hoses to the vacuum truck after pumping a septic tank.

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2,300-gallon aluminum tank, recently rebuilt by FRB Welding with a Masport blower; a 2019 Mack Granite with a 3,300-gallon aluminum tank from FRB and a Masport pump; and a 2023 Mack MD7 with a 2,500-gallon aluminum tank from KeeVac and a Masport pump.

The company also built out several trucks in-house, including a 2002 Freightliner FL70 with an 1,800-gallon steel tank and a Masport pump. Macy's also owns a Terralift drainfield rejuvenation machine, made by Terralift International Family of Companies.

Powerful 1,000 cfm Masport MB1000 blowers recently installed on two trucks — the 2019 Mack and the 2004 Peterbilt — have dramatically boosted productivity, Justin says. "It now takes technicians 15 to 20 minutes to pump septic tanks instead of 40 to 50 minutes," he says. "They also make it easier on their bodies."

GREASE AND SEWER WORK

Grease service has also grown substantially during the last five years, driven largely by a county regulation that mandates grease-trap installations for businesses, primarily restaurants.

To clean grease traps, the company relies on three vacuum trucks: a 2001 Freightliner FL70 built in-house with a repurposed 2,000-gallon steel tank and a Masport pump; a 2006 Freightliner M2 with a 2,500-gallon aluminum tank from Progress, built out by TOICO Industries with a Masport pump; and a 2007 Ford F-550 with a 1,000-gallon steel tank from FRB and a vacuum pump from Masport.

To handle grease disposal, the company invested in a Sludge Mate dewatering trailer from Flo Trend Systems, equipped with a 1,000-gallon tank.

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➤ Pumper PROFILE

RETURN ENGAGEMENT



▲ At a residential pumpout call, Reppa connects a vacuum hose to one of the company's septic service trucks.

It can process up to 4,000 gallons daily. "We use it to dewater grease so we can dispose of it in a local landfill," Justin says. "Otherwise we have to haul it to a private processing facility that's about 120 miles away."

The company also installs smaller grease traps now, up to 350 gallons, he says.

To clean sewers, the company invested in a 2004 Freightliner waterjetting truck, outfitted by Sewer Equipment. The truck features two water pumps of unknown make (4,000 psi at 18 gpm and 4,000 psi at 25 gpm); two hose reels that each hold 500 feet of hose; and a 700-gallon water tank. The business also relies on four RIDGID SeeSnake pipeline-inspection camera systems and three drain-cleaning machines from General Pipe Cleaners.

To haul potable water, the company owns a 2002 Ford F-550 with a 700-gallon plastic tank and a 2017 Ram 5500 with a 400-gallon plastic tank; both tanks were made by Norwesco. The company also hauls water with a 1991 Peterbilt with a repurposed 4,000-gallon aluminum milk truck tank.

FORK IN THE ROAD

As Justin looks back on what his grandparents and parents have built, and what he and his brother continue to grow, he's not only proud of the company's success, but also of all the business relationships cultivated over the years.

"When we walk around our community, everyone always has great things to say about our company," he says. "That's a really cool thing to hear.

"And everyone loves my dad," he adds. "If we go out for breakfast or dinner, he always ends up talking to someone for 15 or 20 minutes. They just love him and they love doing business with him — he's built great customer relationships."

As for the future, further growth is somewhat constrained by a tight labor market and the expense of new equipment. And a succession plan is in a state of flux as he and his brother, age 36, weigh their options.

"I still want to have a life outside of the business and I'm not sure that's possible after my parents retire, especially since my dad has a lot of certifications that David and I don't have and that we'd need in order to keep providing the services we offer," he continues.

"We love the business and would love to see it continue," Justin concludes. "But we also want to maintain a good work-life balance. We'll have to see what happens." **P**



Help with employee housing

Macy's Services is taking a significant step beyond typical employee perks by offering a highly unusual benefit: affordable employee housing.

"We needed to provide stable and affordable housing in a market where it doesn't exist," says Justin Reppa, the company's safety and fleet manager. "It's necessary for us to remain a sustainable business."

Housing costs in Teton County — and the larger Jackson Hole area — are exorbitant. In 2023, the median price for homes in Jackson was \$2.4 million. And the average price of a home in Jackson Hole — the name of the valley in which Jackson lies — was \$2.1 million, statistics show.

Macy's owns property a 45-minute drive from Jackson, in neighboring Lincoln County. The Reppas have already built one three-bedroom home on the property and plan to construct three more two-bedroom houses within the next two to three years.

To minimize the construction costs, the company opted for pre-fab houses, Justin explains.

Employees pay below market-rate rent. As a benchmark for determining an appropriate rental rate, the company uses the rent charged for affordable housing controlled by the county, which is about \$1,200 to \$1,500 a month for a two-bedroom apartment.

"Our goal is not to make money off of our employees," Justin says.

Tyler Griffin, the company's primary mechanic, and his family rent out the existing home.

"We want to keep him on board because he's so critical to keeping our business running," Justin explains. "He keeps our business afloat, ... and providing affordable housing is a big part of keeping him here.

Providing housing for employees is a growing trend among area businesses, Justin says. "If you can provide employee housing, it gives you a huge leg up on things," he says.

The company also has worked out an agreement with a local contractor building an apartment complex to give Macy's employees priority when it comes to renting units.

"It's all part of just figuring out what we need to do to meet employees' needs and continue to thrive as a company," Justin says.



▲ Macy's Services mechanic Tyler Griffin works on maintenance for a Ram 550 service truck built out by Best Enterprises and using a Masport pump.



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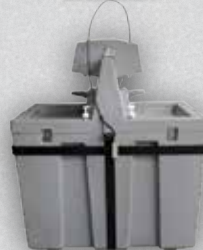
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Jake Mazulewicz
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Jake Mazulewicz, Ph.D., works with leaders in high-hazard industries to work more reliably and safely. He has a decade of experience in safety for electric utilities, and served as a firefighter, an EMT and a military paratrooper. To learn more, visit www.reliableorg.com.

7 Steps to Improve Safety and Worker Reliability

Follow these process-improvement tips to build a better workforce and reduce costly errors

By Jake Mazulewicz

A technician spills a toxic chemical. She isn't injured, but easily could have been. The hazmat cleanup costs more than \$10,000 and shuts down a critical building for a week.

An electrical engineer flips the wrong switch in a substation control room. He isn't injured. But within seconds, a \$50,000 transformer is destroyed.

Three financial clerks in two different countries are processing payments for a large bank. They intend to schedule a routine \$8 million payment. Antiquated software makes errors hard to catch. The clerks accidentally wind up sending \$893 million instead.

Talking about building a culture of safety and human reliability is easy. But how many great ideas get talked about and never actually get put into practice? The real skill is to be able to transform good ideas into practical steps that you and your people can apply immediately.

There is no one secret or solution. Instead, many successful companies around the world have built a culture of safety and human reliability using a "consolidation of subtleties" — a combination of practical steps like these seven tips:

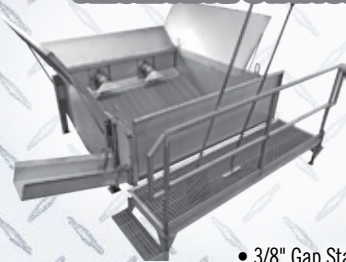
1. Take a learning-based approach to errors. If you're in a work culture that's stuck in the old-school, control-based approach of eliminating all errors, then consider labeling it that way. "Hey, are we stuck in a control-based approach as we're discussing Tuesday's incident?" The more you label it, the more you'll be aware of it, and the less you'll be stuck in it. When ready, propose the alternative — the learning-based approach. How? After the next incident or unwanted error, don't start by asking, "What went wrong this time?" Instead, start by asking, "How do you all get this job done right 99% of the time?"
2. Create psychological safety. It's easy to destroy and challenging to create. Yet research from Dr. Amy Edmonson at Harvard and Google's Project Aristotle reveal that psychological safety is key to successful, safe, engaged and reliable teams. After an error, instead of saying, "Joe failed to do [X]..." ask, "What did Joe do, and why did it make sense for him [at the time] to do that?"
3. Lead after-action reviews, or AARs. For more than 30 years, these psychologically safe, semi-structured, post-job team debriefs have been used by an increasing number of high-hazard industries worldwide. After your next successful, complex project, instead of asking "What could we have done better?" ask these four questions

➤ Traditional investigations often "Name, shame, blame and retrain." The result? Fear, silence and box-checking on corrective actions.

initially developed by the U.S. Army to accelerate learning among the troops: What did we set out to do? What did we actually do? How did it turn out that way? What will we do differently next time?

4. Transform investigations. Traditional investigations often "Name, shame, blame and retrain." The result? Fear, silence and box-checking on corrective actions. The alternative? Instead of asking, "What was the error, and who made it?" ask, "How did our processes set that person up to make that error? And how can we improve our processes to set our people up for reliability and success instead?"
5. Apply defenses. Peer checks. Three-step communication. Checklists. These and other simple, yet powerful defenses have proven successful for decades. You can learn them in a few hours, and get real-world results immediately. Pick a task you and your team perform routinely. Consider writing or updating the checklist for that job to include only the three to seven items most often missed. One physician from Baltimore helped save 1,500 lives in 18 months with this classic defense.
6. Improve systems. Instead of trying to "fix" your workers, improve your work processes and systems. How? Pick a process you regularly follow. With trusted frontline workers, brainstorm one low-cost, low-risk, low-fear, low-maintenance process improvement that would make it easier to do the right thing in that process. For example, companies with fleets of trucks have dramatically reduced serious injuries and saved millions of dollars each year by simply avoiding left-hand turns.
7. Build resilience. The world's most high-reliability organizations, or HROs, don't try to eliminate all errors. They don't create a procedure for everything either. Instead, they build resilience so most errors become easier to detect, recover from, and learn from. How do HROs do this? One method they use is to look for "weak signals," like the sound

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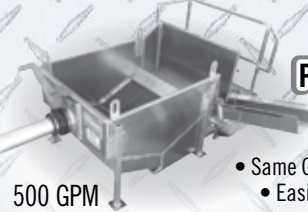
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an engine makes when it's just starting to develop a problem. Novices miss weak signals. But experienced workers sense them and act quickly to manage errors before they cascade into catastrophes. So talk with a few of your trusted staff members and identify one weak signal for a complex job you all do. Name that weak signal and what to do about it. Then teach that to your newer workers instead of hoping that they'll discover it on their own.

MAKING PROGRESS

If these seven steps seem like a lot, don't worry. Just pick the one that resonates with you the most right now, and discuss it with a few members of your team. When ready, try it out in a low-cost, low-risk experiment. A few small, quick wins will help you build momentum fast. **P**



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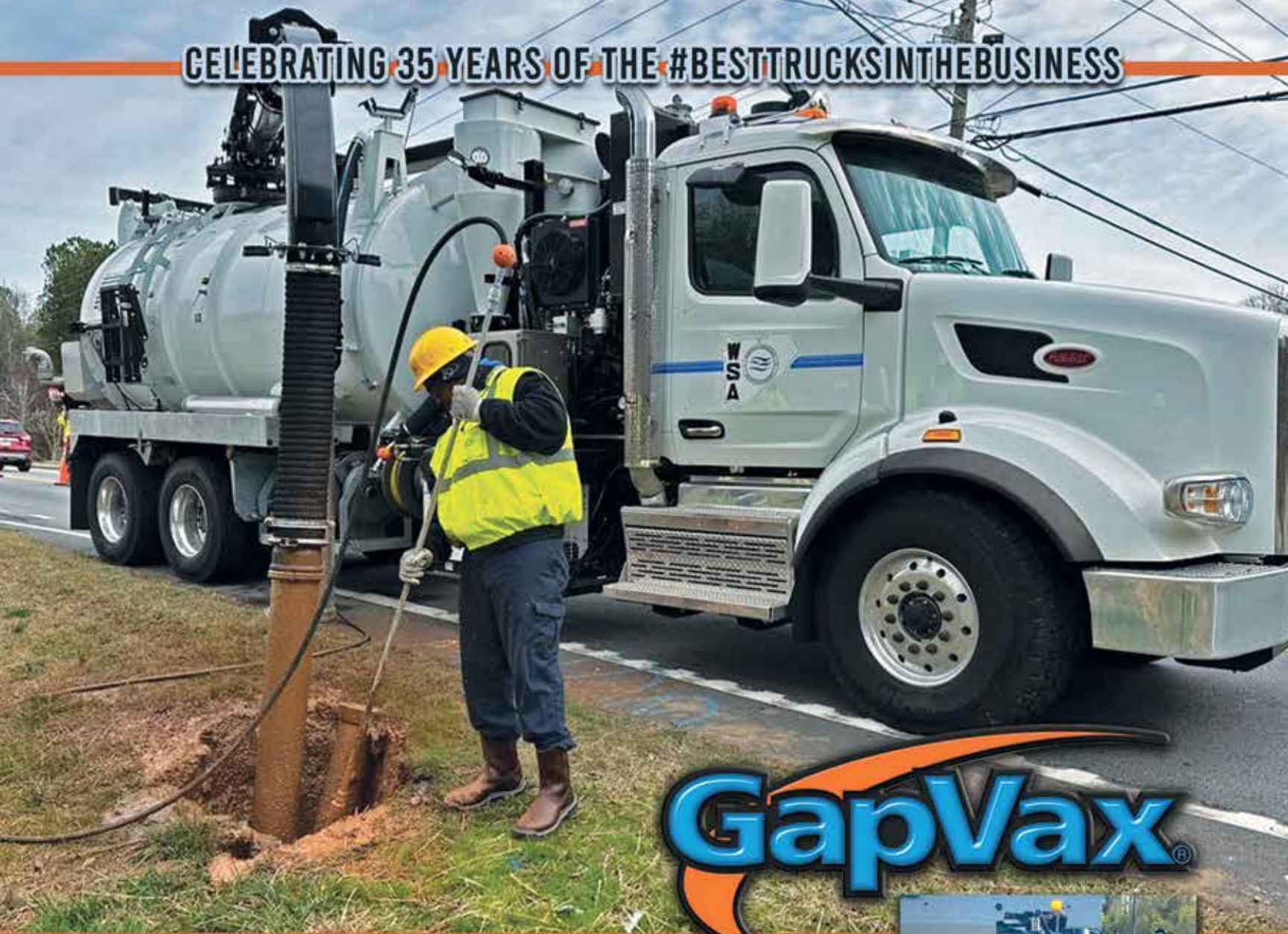
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Group Protects Popular Constructed Lakes in Arkansas and Missouri

Grants and loans for septic system remediation help maintain high water quality in the tourist-magnet lakes of the Ozarks region

By Ted J. Rulseh

Clear constructed lakes in the Ozarks of southwest Missouri and northwest Arkansas attract many thousands of tourists for all manner of recreation.

The lakes form the backbone of the tourism economy and support a high quality of life for residents. Helping to protect those lakes and their watersheds is the mission of H2Ozarks, a nonprofit organization founded in 2002.

Its focus is on the Upper White River Basin watershed, which includes Table Rock Lake, Lake Taneycomo, Bull Shoals Lake, and Beaver Lake — some 144,000 acres in total — and the streams that feed them.

A key component of the organization's work is the repair and replacement of failing septic systems, which can pollute the lakes and groundwater. The group recently completed a \$2.5 million septic remediation grant program with the Missouri Department of Natural Resources and has launched a similar program for the Beaver Reservoir Watershed and Buffalo River Watershed in Arkansas. Carin Love, chief operating officer, talked with *Pumper* about the Septic Remediation Programs, the group's background and its other water quality initiatives.

Pumper: Briefly, what is the background of H2Ozarks?

Love: The organization was founded in 2002 by local business leaders who had a vision to protect the four lakes in the Upper White River Watershed, with the goal to make them the cleanest manmade lakes in North America. A year ago we rebranded to H2Ozarks. We promote water quality in the Ozarks area through bi-state collaboration in public outreach, public policy, education, research and action projects.

Pumper: Apart from septic remediation, what does your organization do to protect water quality?

Love: In Arkansas our StreamSmart assessment guide helps lakeside residents identify management techniques to reduce or prevent pollution. Our StreamSmart program also coordinates volunteer citizen scientists who monitor water quality at 14 sites throughout the Beaver Lake Watershed, filling in important data gaps that help water resource managers understand changes in water quality. We have an annual shoreline cleanup in Missouri that's been going on for 22 years. It started out with only 20 volunteers and has

“ The program is life-changing. It promotes human health, it promotes environmental quality and it promotes the economic vitality of our region. ”

- Carin Love

grown to more than 500. We also help develop watershed management plans in both states, and are currently completing a modeling project for a watershed management plan we are developing in Arkansas.

Pumper: Where does funding for the Arkansas programs come from?

Love: Funding for the septic remediation projects is provided through a grant funded by the Arkansas Department of Agriculture Natural Resources Division, Water Development Fund and Clean Water State Revolving Fund. Funding for the watershed management plan in the Upper White River Basin is provided by the Arkansas Department of Agriculture Natural Resources Division Nonpoint Source Pollution Program through the U.S. Environmental Protection Agency.

Pumper: Why is septic system remediation an important initiative for H2Ozarks?

Love: Appropriately placed and properly functioning septic systems are effective in treating household wastewater, but many systems are old and may be failing. Those failing systems can cause bacteria, nutrients and other pollutants to be transported to surface water and into groundwater. Especially in southwestern Missouri, the majority of residents' drinking water comes from groundwater. In northwestern Arkansas, Beaver Lake provides drinking water to much of the population. Many of the systems we're remediating have untreated sewage surfacing on the ground. Most often it's due to collapsed septic tanks.

Pumper: What is the history of the Septic Remediation Programs?

Love: We did a Septic Remediation Program in Missouri 2011-15, during which we replaced or repaired 309 failing septic systems. The Arkansas program



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we're doing now is patterned after the Missouri program. The program provides much-needed assistance for low-income homeowners. Often, needed repairs are ignored because they are extremely expensive.

Pumper: How extensive is the program in Arkansas?

Love: The first-phase funding will cover approximately 100 septic system replacements. The Arkansas Natural Resource Division is very positive about the program. They have already opened funding for septic remediation in the Buffalo River Watershed and have asked us to administer that as well. The Illinois River Watershed Partnership is doing a similar project in their neck of the woods. So between our two organizations and these three projects, we hope to gain enough traction so that remediation spreads statewide.

Pumper: How strong is public acceptance for this program?

Love: It's very strong. The program not only benefits the environment. It also impacts the quality of life for homeowners. One homeowner was overjoyed because their children now could play in the backyard because septic waste was no longer puddling there. Another homeowner composed and posted on her social media a song called "Septic Angel," in honor of our program manager, Shelly Smith, who worked through the process with her. The program is life-changing. It promotes human health, it promotes environmental quality and it promotes the economic vitality of our region.

Pumper: What types of septic systems are being remediated?

Love: During our Missouri project we saw many rusted metal tanks that were leaking and/or collapsed. In the Upper White River Basin watershed, failing conventional systems have been replaced with new conventional systems. We have replaced, or are replacing, a few straight-pipe or cesspool systems with conventional systems.

Pumper: What types of systems are being installed as replacements?

Love: During our Missouri remediation project, 38% of the replacements were conventional systems, 37% were advanced drip systems, 13% were low-pressure pipe systems, 1% were aerobic treatment units and 12% were partial replacements involving tanks or lateral lines.

Pumper: What are the required setbacks from water bodies?

Love: Current setbacks are 100 feet from surface waters. Other setbacks include 100 feet from any source of domestic water supply, 100 feet from the high-water mark of streams and lakes, 300 feet from springs used as public water supplies; 50 feet from a pond on a property, and 100 feet from a pond on someone else's property. All new systems must meet permit requirements for design and construction. Setbacks must be met, and the system must be designed for the soil type, the size of the home and the use of the home.

Pumper: Are there any requirements for maintenance of the replacement systems?

Love: Unlike advanced systems, which require a routine maintenance agreement, there generally are no requirements to ensure the functioning of traditional systems at any point after the initial construction. This is unfortunate, because systems can and do fail, and those failures can go unaddressed for long periods of time. In 2009, the Stone County Health Department in Missouri passed an ordinance requiring a property transfer certificate verifying the adequacy of a property's existing septic system at the time of a property's transfer or sale. Areas in both Missouri and Arkansas have found value in point-of-sale inspections or similar requirements.

Pumper: Are most of the remediated systems on lakefront properties?

Love: So far during our Arkansas remediation project, we have not replaced any systems on waterfront properties. Many have been near Beaver Lake or the White River. During the Missouri project, 80% of the remediated systems were 1,000 feet or less from a stream, river, lake or sinkhole, and we remediated systems as close as 50 feet from such waters.

Pumper: How much do typical system remediations cost?

Love: The average cost for remediation has been about \$10,000, although some projects have been as little as \$5,000 and some as much as \$18,000.

Pumper: Are there enough installers in the area to do these jobs without long delays?

Love: The biggest holdup in the Upper White River Basin watershed is that there are not enough designers to meet the demand in our project area. Because of the demand, there are further delays with the county health units and installation companies. There are few installers in the Buffalo River region, so it remains to be seen if we will see the same delays as the project moves forward.

Pumper: How much financial aid do homeowners receive for system remediation?

Love: Homeowners can get up to 90% of their septic system paid for by grants, which is money they don't have to pay back. What remains is provided as a zero-interest loan that we administer. No credit check is required. Some of the people we serve wouldn't be able to get funding through conventional methods.

Pumper: How are contractors selected to do the work?

Love: The homeowners select the contractors, who must be Arkansas-licensed septic system installers. We only provide the funding upon successful completion.

Pumper: Who decides which systems get remediated?

Love: The systems must be determined to be failing by an Arkansas Department of Health Environmental Health Specialist. Then they are approved for remediation through our program on a first-come, first-serve basis. Financial need determines how much grant money versus zero-interest loan the homeowner qualifies for. The greater the need, the more grant money they receive.

Pumper: How do you make the homeowners aware of the program and the funding?

Love: Our program managers send mailings out to rural communities. We attend Chamber of Commerce events. We created rack cards to leave with the Department of Health. We communicate with installers. And we promote it through social media and by word of mouth.

Pumper: Do you have septic-related programs other than the remediation projects?

Love: H2Ozarks provided \$50 pumpout rebates to homeowners around Table Rock Lake in Missouri, thanks to a grant from the Table Rock Lake Community Foundation. Rebates were available to homeowners who met eligibility requirements and who had their septic tank pumped out by a licensed hauler between Nov. 1, 2022 and April 30, 2023. The program gave us a platform to tap someone on the shoulder and say, "Hey, let's talk about how important septic system maintenance is, not just in the short term but long term as well." We want to increase our outreach and education and make water quality a household concern in a positive way." **P**



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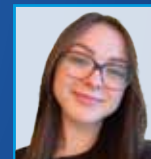


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Deck Construction	Steel	3/4-inch tongue and groove decking with lifetime warranty
Floor Joist Specs	Steel 16-inch OC	2-inch steel tube 16-inch OC
Interior Trim	Varies according to series	PVC, aluminum, and Amish-crafted wood
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Trailer Series	Restroom Trailers, Shower Trailers, Handicap-Accessible Restroom Trailers, Laundry Trailers, Bunkhouse Trailers	Explorer Contractor II	1- to 6-Unit VIP, 1- to 3-Unit Prestige and Diplomat, 2- to 4-Unit Majestic
Shell Construction	Composite (gel-coated fiberglass)	Heavy-duty steel shell, formed with a continuous-welded leakproof construction	High-density, 1/2-inch polyethylene plastic Majestic - high-grade smooth fiberglass
Weight (lbs)	3,000 - 21,000	4,800	1,400 - 7,000
Lengths	8' - 43'	13'	11' - 24'
Fixtures	Delta metered faucets, Dometic low-flow toilets, waterless urinals	Polished stainless steel countertops and sinks with self-closing faucets, water-saving flush toilets and urinals	Chicago auto-off faucets, Dometic porcelain toilet with Teflon seal
Waste Tank Sizes (gal)	250 - 1,300	240 US all-steel holding tank, hot-dipped galvanized after welding, 2-inch vent stack, 3-inch drain	VIP and Prestige 65, Diplomat 90, Majestic Shared Tanks - Dual 150/Quad 300
Fresh Tank Sizes (gal)	105 - 600	200 US supply tank, high-density polyethylene	VIP and Prestige 40, Diplomat 55, Majestic Shared Tanks - Dual 90/Quad 180
Additional Standard Features	Seamless gel-coated fiberglass interior, exterior, roof and sub floor, polypropylene waste tank, A/C units with heat strip, steel freshwater tank surround, waste tank with built-in spray bar, large mechanical room, LED lighting inside and out, metered faucets	Negative-pressure ventilation system incorporating a 300 cfm blower and ducted room headers, fully insulated floor and walls, complete heating and optional A/C system, front utility room for electrical panel, water heater, water pump and supplies storage	Solar-powered, self-contained, with no required electrical or water connections, flushing toilet/Teflon seal, sink, trash and mirror, 125 to 580 average uses, LED int./ext. lighting with power roof vent standard
Frame Construction	12-inch steel I-beam	All-steel 10-inch frame with removable tongue	Steel
Deck Construction	Composite		Steel, aluminum diamond plate
Floor Joist Specs	16-inch OC	All-steel channels	Steel
Interior Trim	Varies by model	Complete white-fiberglass-reinforced plastic anti-graffiti interior wall and ceiling surface	Polyethylene/proprietary extruded aluminum; Majestic - high-grade smooth fiberglass, brushed aluminum ceilings
Flooring	One-piece vinyl, 3 flooring options available	Full-length aluminum safety walk floor	Weatherproof gray carpeting Majestic - planked linoleum composite Pelham Maple
Warranty	3 years	Full manufacturer warranty	1-year
Options	Winter and winter-plus packages, three-season package, hot water, mobile monitoring system, stereo package, floor drain and upgraded PVC Coated flooring package, Aluminum wheel upgrade, Vinyl Wrap options.	Many floorplans available	A/C (requires 110V), winterized package, power converter, warm-water hand wash, city water connection and dispensers, custom options are available

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Shell Construction	Aluminum tube with insulation. Fiberglass interior and exterior on a composite backer	Smooth, Aluminum PolyCor interior walls & ceiling	Aluminum and composite walls with seamless gel-coat exterior with water shed roof design, color white
Weight (lbs)	Varies	Varies	Varies
Lengths	12' - 32'	4' - 40'	10' - 44'
Fixtures	Metered faucets, molded sinks, wall to wall solid surface tops, water saving toilets and urinals. Options available	Stainless Steel sink, auto-shutoff sink faucets, ceramic pedal flush toilet, auto flush ceramic urinal, rust-free Aluminum countertop	Delta faucets, Theftford toilets
Waste Tank Sizes (gal)	400 - 1,100 higher strength, high density polyethylene with multiple sump options	Varies according to size	200 - 1,300 1/2-inch polypropylene tank with bottom dump
Fresh Tank Sizes (gal)	Varies with options available	105 - 210	100 - 300
Additional Standard Features	A/C with heat strip, one-piece fiberglass/composite roof, larger commercial entry doors with heavy-duty closers, our quick step-up steps and large grab rails, LED lighting, fresh water system, stabilizer jacks on all corners, spray port and spare tire	3rd Party Certification for Single ADA and ADA+2 for American with Disabilities Act (ADAAG) Accessories included: Soap Dispensers, Paper Towel Dispensers, Toilet Paper Holders, Shatter Proof Mirror, and garbage can. Roof Mounted 13.5 Mach3 A/C with Heat Strip Wall Mounted Thermostat 4.0 GPM Fresh Water Pump 6 Gallon Electric Water Heater PEX Manifold Water Distribution System 120V 30 amp Motorbase with Twist Lock shoreline cord 25' Polyethylene Waste Tank (3/8" Walls) White Vinyl Walls In Mechanical Closet	Rooftop air conditioner, sidewinder jacks, LED exterior DOT lights, LED porch lights
Frame Construction	E-coated steel with 20k adjustable coupler and 7k tongue jack	Steel	Structural steel I-beam
Deck Construction	Non-absorbent Ever Floor	PlexCore Decking	Non-wood seamless composite decking
Floor Joist Specs	E-coated steel tube	Steel	16-inch OC
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Warranty	Varies based on item, 2-year craftsmanship	3-year materials and workmanship	3-year limited product warranty
Options	Plastic sub-floor, our "Fast, Simple, Safe" set-up, key matching, heat packages, stereos, water heaters, full body paint, vinyl wraps, heat packages, stereos, water heaters and more	Three-season package, 4-season winter Glycol bottle heater w/ pump package, and upfitting available to add stereo, remote monitoring, or custom needs.	Remote tank monitoring, GPS tracking, back-up camera and auto-leveling jacks



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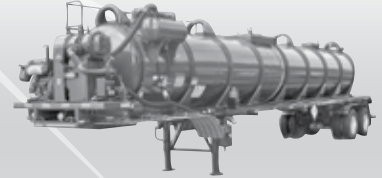
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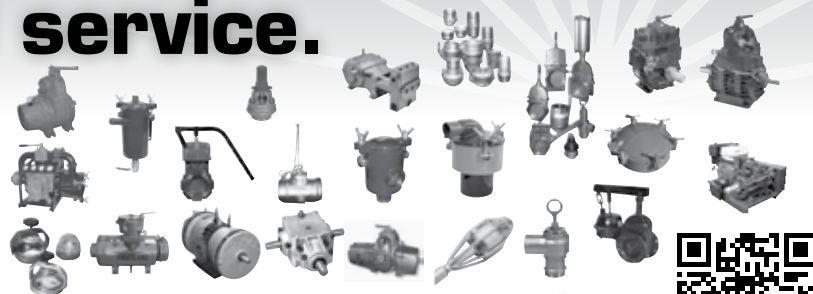
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Sara Heger, Ph.D.
Contributor

Sara Heger, Ph.D., is a researcher and instructor with the Onsite Sewage Treatment Program in the Water Resources Center at the University of Minnesota. She is also a certified septic system designer and service provider. Send questions for Sara to editor@pumper.com

What Do We Know About New Plastics Reaching the Septic System?

Many new products contain polyvinyl wrapping and super-absorbent sodium polyacrylate that may have a detrimental onsite impact

By Sara Heger, Ph.D.

Laundry and dishwasher pods and sheets are made with or wrapped in petroleum-based plastic called polyvinyl alcohol, also called PVA or PVOH. This plastic is designed to dissolve, but it doesn't disappear. Pods are plastic. PVA is the plastic polymer in almost all dishwasher and laundry pods and sheets. PVA is the thin plastic wrapping around pods and is woven into laundry sheets to keep them intact.

PVA is designed to dissolve, but unfortunately, it does not disappear. In the U.S. alone, an estimated 20 billion PVA-wrapped dishwashers and laundry pods are used annually. A study published in the *International Journal of Environmental Research and Public Health* shows that PVA does dissolve, but it doesn't always biodegrade. More than 75% of plastic PVA particles persist in oceans, waterways and soils after they dissolve. These PVA particles then have the potential to persist in ground and surface waters.

Some PVA products will claim they are biodegradable. However, they require extremely specific conditions to break down, including the presence of certain PVA-adapted microorganisms that help break down the plastic particles and a specific amount of time needed with these microorganisms for the plastic to degrade. In most U.S. wastewater treatment plants, those microorganisms do not exist and there is not sufficient time, so the conditions for biodegradation are not met.



The plastic material used in detergent pods will dissolve, but not disappear in a septic tank. (Photos courtesy of Sara Heger)

It is advisable to ensure wastewater effluent applied to the soil has low amounts of surfactant. This is harder than it seems since all the products we use in our home that create bubbles contain surfactants.

Additionally, biodegradation requires specific temperatures and food-to-microorganism ratios on top of the above factors. It is highly unlikely that the necessary microorganisms exist in septic systems. This could cause these plastics to accumulate in the soil treatment system or travel away from the system with the treated effluent.

ACCUMULATION RISK

Once these plastics are in the environment, they have the potential to bioaccumulate. This means PVA could carry other toxic chemicals or heavy metals up the food chain. Like other forms of plastic pollution, PVA has the potential to cause harm to the environment, plants and animals.

The other septic system-related issue with these pods is that they often contain more soap than needed. The liquid pods contain concentrated soap with significantly less water. The soap we use in our homes is designed to float up into the scum layer of the septic tank, but some of it makes its way through the system and then becomes attached to the soil.

The less soap you use in your home, the better for your septic system. Surfactants released into the soil over time can alter the soil's physical, chemical and biological properties, particularly the saturated hydraulic conductivity. Excessive surfactants are often easy to see in aerobic treatment units due to adding air into the system.

As the soil removes detergent surfactants through adsorption, anionic surfactants begin to accumulate in the soil. It is advisable to ensure wastewater effluent applied to the soil has low amounts of surfactant. This is harder than it seems since all the products we use in our home that create bubbles contain surfactants.



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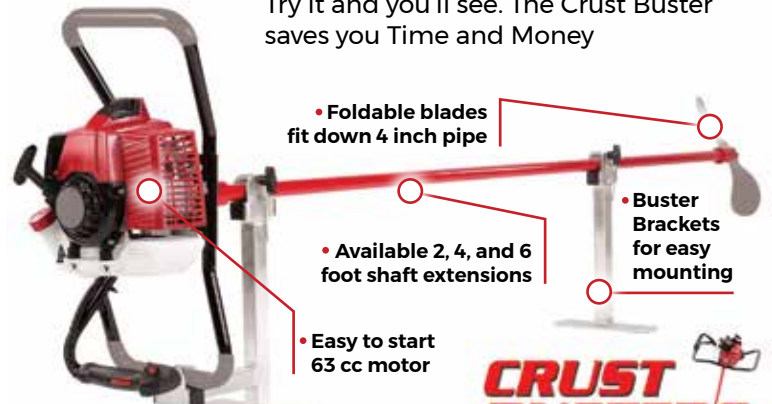
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GEL ICE PACKS

Gel ice packs have become standard for home delivery of meal kits, insulin and other products that need to stay cold. These gel packs are not all the same, so you want to check with the manufacturer to determine the appropriate disposal methods. Some companies using the packs even have programs where they take back, reuse and deal with damaged bags.

The gel in these packs is commonly made of water and sodium polyacrylate. Sodium polyacrylate has a wide variety of commercial uses because it absorbs up to 300 times its weight in liquid. You'll find it in diapers, for example, or pet pads.

⬆ All cleaning products that create bubbles contain surfactants, which may cause issues if they reach the soil treatment area.

This material should not be poured down the drain, as it could clog the small pipes in a home plumbing system. If you are dealing with a clogged drain due to the gel being disposed of improperly, a plumber snake is the best option versus the use of chemical cleaner, which could damage the microorganisms in the septic tank.

The best plan is to reuse them, but often, people end up with too many of them. In this case, the liquid can be dried out as it is 99% water, and the solid can be put into the garbage, or the entire contents can be placed directly into the garbage. The plastic can be recycled with other plastic bags.

PROCEED WITH CAUTION

There are more and more products of convenience that property owners may use that could negatively impact septic systems. Educating users and understanding these challenges can assist with troubleshooting problematic systems. **P**



⬆ These common ice packs contain absorbent material that must be disposed properly.



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Island Life in the Pacific Northwest Creates Wastewater Challenges

Jason Kramer must transport waste off Lopez Island and take a ferry to network with others in the Washington On-Site Sewage Association

Compiled by Betty Dageforde



In Snapshot, we talk to a member of a state, provincial or national trade association in the decentralized wastewater industry. **This time we visit a member of the Washington On-Site Sewage Association.**

Name and title or job description: Jason Kramer, owner

Business name and location: A1 Septic on Lopez, Lopez Island, Washington, one of the San Juan Islands north of Seattle.

Services we offer: I started with pumping and then added inspections. That led to doing upgrades and repairs. I also do commercial pumping. And I'm working on my designer certification as my retirement plan.

Age: 49

Years in the industry: Eight years. I used to be a county road crew guy and I worked a couple of evenings a week for a company driving and emptying pumper trucks. We live on (Lopez Island) and have to take the trucks off-island for emptying. I worked there for a couple of years then decided to get into pumping. I found a truck in California which turned out to be great. You pay by the foot on the ferry, and this truck was as big as I could get and stay under 30 feet long, and I can still get down all the driveways with it. It's a 2001 International 9100 with a 3,600-gallon steel tank and National Vacuum Equipment Challenger pump.

Association involvement: I've been in the Washington On-Site Sewage Association for six years.

Benefits of belonging to the association: Most of what I take advantage of is training and networking, getting to know the people in the industry. It really has been invaluable to me. And they do a lot of great stuff with legislation and trying to emphasize the importance of clean water and our role in it.

Biggest issue facing your association right now: Trying to recruit the next generation is challenging. There aren't a lot of new people coming into it. But I think the classes WOSSA is bringing onboard are going to attract people be-

cause of the way they're doing it. They're keeping it interesting. If younger people can get introduced to the industry, I think WOSSA will be able to keep them interested. And they're also doing a lot of scholarships, which is exposing the next generation to the industry.

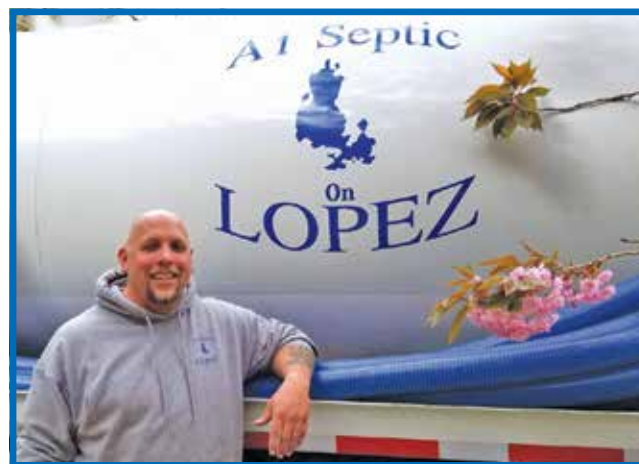
Our crew includes: My old road crew boss, Tim Arnold, retired and now drives my tanker truck, a 1989 Freightliner customized by Erickson Tank & Pump with a 6,000-gallon stainless steel tank and Masport Cobra pump. We store septage in the tanker until it's full, then Tim takes it off island for emptying a couple times a week.

Typical day on the job: My alarm goes off at 4 a.m. and I'm in my office by 5 to do paperwork. Then at 7:30 a.m. I work for the village sewer district, about 20 hours a week, which pays for my health benefits. It's a sewer lagoon treatment plant with 200 houses on the system. I had never worked at a sewer district before, but they needed somebody and this district has septic tanks at all the houses so I was able to be a benefit to them. And the training I get there complements my business. By 11:30 a.m. I'm working my business and will typically work until dark, usually 60 to 100 hours a week. One of my favorite parts of the business is marketing so I take pictures and post those on Facebook.

The job I'll never forget: When I pumped out my first RV, I bought an adapter to go under my truck and hook to the RV. It was a difficult connection because of the angle so it wasn't sealed just right. I didn't have any-

body to teach me so I had to learn everything the hard way. I cracked the valve open a little bit on my vacuum hose, then opened up the RV black tank. It hammered and sprayed straight into my eyes. It was horrible. But I rinsed my eyes out and went back and figured it out.

My favorite piece of equipment: My service truck has all my tools and everything I could possibly need for any emergency. I also recently picked up a new 400-gallon aluminum tank. I had Erickson build it. It's really nice because I can do RVs and portable restrooms, and on proprietary systems I can pump out the trash tank as part of the service, if it needs it, instead of going home to get the pumper truck. The truck is a 2005



Jason Kramer with his 2001 International 9100 carrying a 3,600-gallon steel tank and National Vacuum Equipment Challenger pump.



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Heading out to service the outer islands with a 2005 Ram 3500 built out by Erickson with a 400-gallon aluminum tank and Masport pump.

Ram 3500. I bought it a couple of years ago and put a lot of new stuff on it, from steering linkage to cab lights, pipe rack, wheels, tires. I still need to figure out a freshwater system. It has a Masport pump. I'm bolting that to

the truck because there's a shelf at the front of the service bed because of pass-through storage, so I couldn't have it bolted to the vacuum tank. The tank is removable with forks and I have cam locks on the hose to hook the tank to the power unit.

Most challenging site I've worked on: There was a job where I had to back down a narrow driveway and then the tank was 100 feet away and as steep as you could get without needing a rope to pull yourself up with. Between running the hoses down the hill, climbing back up, then pulling the hoses up, it took me about an hour and a half to pump that tank. I don't think it had ever been pumped.

The craziest question I've been asked by a customer: "The drainfield is not draining, can't you just dig it out and rebuild it?"

If I could change one industry regulation, it would be: As service providers we need to be able to work on electrical stuff — replace floats and pumps — instead of trying to find an electrician because it's always an emergency when it happens. That's been the most challenging thing for me. I'd like to be able to get a special electrical license so we could do the work. It's not difficult work.

Best piece of small business advice I've heard: Never stop learning. I listen to podcasts and I'm always looking at WOSSA or NOWRA (National Onsite Wastewater Recycling Association) classes. One reason I like working at the sewer district is there is a lot of learning — and they're paying for it.

If I wasn't working in the wastewater industry, I would: Probably be working on a road crew, playing with those Tonka Trucks.

Crystal ball time — This is my outlook for the wastewater industry: I'm hoping we can get more people in the industry who care about what they're doing. Some people are in it because it's an easy way to make money, not because they care. I'd love to see that change. It seems that's the way everything's been going, especially since COVID. But that's where marketing comes in. The more marketing there is for jobs and job fairs the better, especially if we get the bigger companies to be part of it, getting that knowledge out there. **P**

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A 1989 Freightliner from Erickson Tank & Pump with a 6,000-gallon stainless steel tank and Masport Cobra pump used to transport collected waste to an off-island disposal site. (Photos courtesy of Jason Kramer)



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Portable Sanitation and Special Events

By Craig Mandli

DECALS/MAGNETS/SIGNAGE



Allied Graphics decals

Decals from **Allied Graphics** are designed to stick and stay on portable restrooms in tough environments. The long-life vinyl decals use ultraviolet inks to look good for years, according to the maker. The decals can also be applied to sinks and trailers. **763-428-8365; www.allied-graphics.com**

ROEDA decals

ROEDA decals use an upgraded compound adhesive for an adhesion rating that surpasses the company's previous line of adhesive-applied vinyl. The decals have an increased coat weight to conform to a wider range of textured surfaces. The vinyl has been comprehensively tested to ensure optimized adhesion for decal longevity, according to the maker. **800-829-3021; www.roeda.com**



ODOR CONTROL PRODUCTS

Century Chemical Toi-De-Fresh

The **Toi-De-Fresh** line of portable sanitation products from **Century Chemical** is available in super concentrated and premixed formulas in both formaldehyde and nonformaldehyde variations. Variety packs of in-stock fragrances are available, in addition to standard offerings including grape, piña colada and vanilla. The reformulated 2-ounce baby powder fragrance toss-in packet provides strength, longevity and odor control. The items can be paired with Super Mask masking agent and the company's line of all-purpose cleaners and citrus degreasers. **800-348-3505; www.centurychemical.com**



Johnny's Choice Toss-Ins

Johnny's Choice Toss-Ins are a pre-measured portion packet of dry deodorant in a water-soluble pouch for use in portable restrooms. The portion packs make it easy and convenient to provide service without a mess. They can control foul odors in portable restrooms in all seasons. They have a nonstaining royal blue color to hide waste and a fruity floral scent. They also help break down toilet paper and waste, which helps pumpouts. They are available in three sizes. **888-729-6478; www.johnnyschoice.com**



Surco Portable Sanitation Products Potty Fresh Plus P.T. Spray Down

Potty Fresh Plus P.T. Spray Down water-soluble spray from **Surco Portable Sanitation Products** is designed to eliminate stubborn odors and dirt in portable restrooms and provide long-lasting freshness. It uses Metazene, an odor-neutralizing additive that destroys particles that cause vaporous malodors at their molecular level, to clean and disinfect portable restroom units. Spray it on directly or mix it with water. It's available in five fragrances — xtreme clean, cherry, lavender, super spice or bubblegum — packaged in cases of four 1-gallon jugs, 5-gallon pails or 55-gallon drums. **800-556-0111; www.surco.com**

Walex Porta-Pak Max

Porta-Pak Max portion-control holding tank deodorizer from **Walex** contains 50% more color, 50% more odor control and double the fragrance of the original Porta-Pak. It is a suitable drop-in packet for units in high-traffic locations or hot climates. Its use can limit odor-causing bacteria from thriving in warm, moist environments, like a portable restroom holding tank sitting in the summer sun. **800-338-3155; www.walex.com**



PORTABLE RESTROOMS

Armal Wave



The **Wave** portable restroom from **Armal** is designed for easy assembly, handling and cleaning. The single-block floor is impact resistant. The units are made of high-density polyethylene and are treated to resist UV damage and color fading, and to extend parts durability at extreme temperatures. Curved corners make it easy to handle, and smooth surfaces make it easy to clean, according to the maker. The unit can be configured with several options. **866-873-7796; www.armal.biz**

J&J Portable Sanitation Products Echo

The **Echo** portable restroom from **J&J Portable Sanitation Products** is designed to withstand constant use and abuse. It is easy to clean and maintain, and it includes a domed floor with drains in front of the tank top for easy cleaning and no puddling. It includes an easy-to-clean deep-sump holding tank and a hover handle. The sides and roof have hand-grips for easy moving. **800-345-3303; www.jjportable.com**



JAG Mobile Solutions Pilot and Drone

The **Pilot** and **Drone** vacuum cube from **JAG Mobile Solutions** is a solution to a variety of vacuum toilet, shower and combination system applications. The climate-controlled system offers applications for networking with existing vacuum systems or as a single standalone solution that can drive daisy chain applications in all four seasons. With opportunities to send waste to a bulk holding tank or direct to sewer when available, the system offers versatility. The ADA ver-



sion is compliant with federal and California regulations governing ADA applications without the need for a ramp system for access. **800-815-2557; www.jagmobilesolutions.com**



PolyJohn PJN3

The **PJN3** from **PolyJohn** has a spacious interior and a translucent roof. It features anti-slip floors, maximum ventilation, a two-roll paper dispenser and an occupancy signal latch. Options include a hand-wash sink or hand-sanitizer dispenser, convenience shelf with hook, locking kit and gender signs. It is available with a standard holding tank or an optional recirculating flush tank. Its waste tank design makes cleaning and servicing easy, according to the maker. Each unit

comes with a door-mounted mirror, handle and a nonsplash urinal. It is made from high-grade polyethylene. **800-292-1305; www.polyjohn.com**

Portable Solutions Group Utility-Tie Restroom

The **Utility-Tie Restroom** from **Portable Solutions Group** is designed for on-site convenience and comfort. Built with private stalls and a durable containerized exterior, it prioritizes privacy and longevity. Equipped with climate control — heating and air conditioning — and running water, it ensures comfort and functionality. Its seamless integration into existing site utilities allows quick setup and meets regulations while remaining portable. It is offered in sizes ranging from 20 to 40 feet. Additionally, custom options are available to address site demands. **740-532-7822; www.portablesolutionsgroup.com**



Satellite Vacuum Technology Division Sanitrx

Sanitrx from **Satellite's Vacuum Technology Division** offers a solution to curb labor and logistical demands at larger events. The collapsible steel frame modules promote efficient transportation and setup. Operators can transport 78 toilets on a single flatbed. It uses an advanced vacuum system to flush waste up to 600 feet, eliminating the need for frequent servicing and reducing odors. This approach is efficient and utilizes 90% less water to remove waste. The different modules optimize traffic flow, enabling quick urinal access for men, while freeing restrooms for women. **800-883-1123; www.satelliteindustries.com**

T.S.F. Tuff Jon III

The **Tuff Jon III** from **T.S.F.** has molded wall vents, a sky heater, lifting brackets and a 16-gallon hand-wash station with foot pedal pump. Designed for easy cleaning, the one-piece polyethylene unit is available in nine colors and has a 70-gallon holding tank. Options include towel holder and soap dispenser. **800-843-9286; www.tuff-jon.com**



Thermoform MT23

With its new dome-style roof, the **MT23** from **Thermoform** offers 30% more head room. Ventilation gills have been optimized for improved airflow and to prevent the intrusion of insects. Side cavities are included on the front edges for better grip when moving the unit. The unit's plastic resin formula incorporates UV protection for long-lasting color. Custom colors are also available. Company logos can be molded into the side panels for brand recognition. Units include a cavity on

the roof to insert and protect the solar light and another in the bottom stowage designed to protect the recirculating pump. **www.thermoform.com.co**

PORTABLE RESTROOM MOVER

Deal Assoc. Hitch Hauler

The **Hitch Hauler** from **Deal Assoc.** is a portable restroom carrier that fits into a standard 2-inch hitch receiver. It is designed to carry one restroom up to 45 inches wide, and the Super Mongo Mover hand truck. It is low-profile, so there is nothing to fold or set up for use. Tip the restroom up onto the unit's base, shove it forward to engage the tabs that hold the restroom's pallet runners, and strap it down. **866-599-3325; www.dealassoc.com**



PORTABLE SEPTIC RECEIVING STATION



ScreencO Systems Micro Screen 400

The **Micro Screen 400** septage receiving station from **ScreencO Systems** is designed for septic, grease, oil recycling and portable restroom truck receiving, with 8 square feet of screen area. It is capable of sitting directly over a manhole or storage tank/sump with its 18-inch mount ring, or with a

6-inch cam outlet and adjustable support legs, and optional hinged cover. It can offload at 400 gpm through a 4-inch inlet, as a fan deflects waste to the screen. The nonmechanical screen uses gravity to separate trash from the waste stream. It has all aluminum construction with stainless-steel 3/8-inch gapped bar screens on opposing angles. Its bar screens will not plug with rags or trash. Simply rake to the trash drain tray and up the bolt-on trash chute with drain bar to the receptacle using the stainless steel bar and trash rakes. At 300 pounds and with four grab handles, it can be set up anywhere. Either 3/16- or 1/4-inch gap bars are also available. **208-790-8770; www.screencosystems.com**

RESTROOM TRAILERS

ART Co. 1404-W

The **1404-W** restroom trailer from **ART Co.** is designed for fast and easy setup. The 14-by-8-foot, four-station unit is equipped with fold-down steps and pipe mount leveling jacks for easy leveling and set up. The unit is available in embassy, cellar, estate, luxury estate and chalet interior finishes and in several exterior color



combinations to match existing fleet colors. It includes a 535-gallon waste tank, 200-gallon freshwater tank, a heavy-duty steel frame, integral trailer skirting, a 2 5/16-inch adjustable trailer hitch, heavy-duty tongue jack, custom cabinetry, Corian countertops, LED lighting and ducted heat and air conditioning. Options include a stereo system, winterization packages and a hot water heater. **269-435-4278; www.arestroomtrailer.com**



Comforts of Home Services ADA line

The ADA-accessible line of restroom, shower and combination trailers from **Comforts of Home Services** is in full compliance with federal guidelines for the interior of the trailer. Access options include a standalone, commercial aluminum ramp system. The trailer is

lowered using electric, one-button execution for 20-foot and smaller models. Trailers longer than 20 feet have an ADA lowering module with attached aluminum ramp. The hydraulic lowering system is designed for customers renting the trailer or moving the trailer numerous times at the same venue. It takes less than 15 minutes to lower the ADA module and then lower the aluminum ramp. **630-906-8002; www.cohsi.com**

DRE Custom Trailers four-station trailer

DRE Custom Trailers offers a 12-foot, four-station restroom trailer with steel-frame construction and a smooth-side aluminum exterior skin. It has a 7,000-pound suspension and aluminum wheels, with a one-piece fiberglass roof, adjustable-height hitch and a 110/12-volt converter system. Its control panel controls the power unit, radio, lights, water pumps and AC. It is designed for very low floor height, with one-step entry, LED lights throughout, power vents, a backup water pump and easy access to the mechanical room. It comes with a 275-gallon waste tank and 150-gallon freshwater tank. Options include a cold-weather package and interior murals. **704-633-6098; www.drecustomtrailers.com**



Lang Specialty Trailers 4 Station ECO Series

The **4 Station ECO Series** restroom trailer from **Lang Specialty Trailers** has an open “community floor plan” concept that allows use by several guests at the same time. Both the men’s and women’s rooms can be occupied by two people simultaneously. The women’s room has two lockable toilet stalls with a shared sink, vanity and mirror. The men’s room has a lockable toilet stall and a water-

less urinal. This trailer is equipped with a 350-gallon waste tank, a 105-gallon optional freshwater tank, and can accommodate events of up to 225 guests. **724-972-6590; www.langrestroomtrailers.com**

NuConcepts Majestic

The **Majestic** solar-powered and self-contained restroom trailer from **NuConcepts** is available in two- or four-unit configurations, and common sealed roto-cast holding tanks help make servicing easy. Using high-grade, computer numerical control-cut fiberglass panels and wood-free-floor construction, the luxury restroom trailer is built for ease of maintenance and durability, according to the maker. It has arched doorways, curved countertops, flushing porcelain toilets, brushed aluminum ceilings, recessed LED ceiling lighting, beveled glass mirror and plank flooring in each spacious, private restroom. **800-334-1065; www.nuconcepts.com**



OI Restrooms OI-414

The **OI-414** trailer from **OI Restrooms** is a workhorse for events that require more doors in a compact space. The unit sets up quickly using different stabilizer options, easy setup steps stored inside the entry doors and large grab handles. It has a durable and easy-to-clean interior containing fiberglass walls,

composite trim and pedestals. The unit is outfitted with the high-quality commercial fixtures for years of trouble-free operation. The interior features are finished with transit-grade flooring. The exterior shell features a full aluminum cage married to seamless fiberglass with a composite backer that will not rot, warp or degrade and is easy to repair. It also includes vacant/occupied indicators. The unit sits on a 7,000-pound torsion axle with 16-inch aluminum wheels and radial tires for a smooth ride and distinct look. **574-226-0691; www.oirestrooms.com**

Ready2Go Restroom Trailers Sales UltraLav ADA+2

The **UltraLav ADA+2** restroom trailer from **Ready2Go Restroom Trailers Sales** is designed to accommodate individuals with disabilities and includes two standard restrooms. It meets or exceeds the permanent structure criteria as specified by the American Disabilities Act. Everything needed for setup, including the railing/ramp assembly, is self-contained. This is accomplished by its “one-touch” hydraulic trailer lowering system. The entire trailer smoothly and quietly lowers to the ground, eliminating the need for ramps. It includes a 105-gallon freshwater tank, a 375-gallon waste tank and only requires one dedicated 120-volt, 20-amp circuit to operate. **833-428-3246; www.ready2gorestroomtrailers.com**



Rich Specialty Trailers FS414

The **FS414** four-station restroom trailer from **Rich Specialty Trailers** has been upgraded with additional counter space without compromising user space. A convenient trash container location has been added inside each room. It includes a durable fiberglass composite roof. An all-aluminum side wall frame structure is protected by a Class A seamless, gel-coated fiberglass exterior. Entrance to private stall rooms is through a

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heavy-duty, mitered, 4-inch aluminum post and fiberglass entrance door with full-length piano swing. All interior walls are mar-resistant and washable. Additional features include sealed, water-repellent flooring, heavy-duty fiberglass walls and available Amish-crafted hardwood cabinets with hardwood trim package. The trailer sits over a large co-poly waste tank, which rests in a standard oversized steel chassis to maximize capacity for long-term use. **260-593-2279; www.richrestrooms.com**

SERVICE VEHICLES

Crescent Tank vacuum tank

The **Crescent Tank** vacuum tank is flat inside and out. It carries up to 10 portable restrooms, and the weight capacity is the same as a flatbed truck. It has no baffles, allowing it to be emptied completely to avoid internal corrosion. With the included pump at specified cfm, unnecessary structural fatigue is eliminated. It is fabricated from 1/4-inch-thick steel for structural strength. Its workstation is designed for the portable sanitation industry. The liftgate rail width allows units to fit, and multiple liftgate decks and rail options are available. Fresh water is held inside the external 1/2-inch-thick poly tank. It can be installed on any chassis within the specifications required for each model based on axle ratings and maximum load capacity. **585-657-4104; www.crescenttank.com**



FMI Truck Sales & Service WorkMate

The **WorkMate** service truck from **FMI Truck Sales & Service** is designed with efficiency and operator comfort in mind, according to the maker. The ergonomically

designed workstation can be operated from the driver's side of the vehicle. It has more than 60 cubic feet of storage space for supplies. The unit can be modified to carry up to six restrooms. The unit pairs with Isuzu's N-Series chassis as well as Hino, Ford, Ram, GM or International chassis. The modular design allows for easy replacement of components if repair is needed. **800-927-8750; www.fmitrucks.com**

Imperial Industries Flatvac

The 1,000-gallon stainless steel **Flatvac** from **Imperial Industries** can carry up to six portable restrooms. The baffled, divided tank carries 700 gallons of waste and 300 gallons of freshwater. The unit offers dual-side bucket fill, dual Hannay hose reels with 50 feet of hose, a Pumptec X-5 washdown pump, Masport HXL4 plug-and-play vacuum pump system, Thieman liftgate and a 3-inch stainless steel boom with 30 feet of 2-inch intake hose and a suction nozzle. **800-558-2945; www.imperialind.com**



KeeVac Industries KV999

The **KV999** from **KeeVac Industries** carries a 999-gallon vacuum tank for operators who want to stay under the U.S. Department of Transportation tanker endorsement requirement. It is

available in steel, stainless steel and aluminum, with single- or dual-side service, holds 699 gallons of waste and 300 gallons of freshwater, and includes a two-unit fold-down restroom carrier with trailer hitch. The tank can be mounted on a variety of chassis and with a variety of pumps. Each unit comes with an upgraded DC-10 washdown pump and hose reel from Hannay Reels. Exterior controls and dual cabinets are designed for operator safety and convenience. An arctic package and safety lighting are available. **866-789-9440; www.keevac.com**

Pik Rite Flatbed Restroom Hauler

The **Flatbed Restroom Hauler** from **Pik Rite** has a 400-gallon waste compartment, 250-gallon "tank-in-a-tank" freshwater compartment, flatbed, and liftgate. The truck has a National Vacuum Equipment 304 vacuum pump, dual 2-inch fill hoses, 20-gpm washdown system, dual-spring return freshwater hose reels and dual 2-inch bucket fills. A 20-inch top manway, 5-inch sight eyes and clear-hose sight tube are included. The truck is equipped with a 98-by-102-inch aluminum flatbed and Thieman TVL liftgate. Two diamond plate toolboxes are mounted on the passenger side. The truck has an LED running light kit with a durable, fully molded wiring harness. **800-326-9763; www.pikrite.com**



PortaLogix service truck

The midsize **PortaLogix** service truck accommodates waste, water and up to six standard restrooms. It utilizes a transverse tank that doubles as the truck bed and carries 800 gallons of wastewater and 350 gallons of freshwater. It features dual-side service, allowing operators to access water drop points on all four corners of the bed. It is available in 2- and 4-wheel drive. The service trucks can be driven without a CDL. **585-484-7009; www.portalogix.com**

Robinson Vacuum Tanks PR1200A

The **PR1200A** truck from **Robinson Vacuum Tanks** carries a 900-gallon waste/300-gallon freshwater aluminum portable restroom service tank. This model has standard dual-side service including toolbox, suction hose and bucket fill. The unit comes with a bumper capable of towing a trailer, and it has a folding platform to haul two portable restrooms. Chassis options include choice of manufacturer, two-wheel or four-wheel drive, and gas or diesel. There are also multiple options for vacuum and water pumps. **814-933-0927; www.robinsontanks.com**





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SHOWER TRAILER



Ameri-Can Engineering shower trailers

Shower trailers from **Ameri-Can Engineering** are available in 15 models, including trailers with accessibility features and ADA-compliant models.

Shower/restroom combination trailers and decontamination shower trailers are also available. Each trailer is designed for rugged long-term use and to accommodate large numbers of users with comfort and cleanliness. The trailers are easy to set up and service and are user-friendly, according to the maker. Shower trailers are available in many sizes, colors and floor plans. All trailers have an extra-large steel, epoxy-lined waste tank; Torflex axles; a lockable equipment room; onboard poly freshwater tank; and on-demand propane hot-water heater. **574-892-5151; www.ameri-can.com**

SLIDE-INS

Slide In Queen FD-995-2C-SE

The **FD-995-2C-SE** from **Slide In Queen** offers versatility and dependability, according to the maker. A flanged and dished tank is built for



both on- and off-road service. It comes with a pumping system and optional washdown pump. With a smaller footprint, slide-in units can service hard-to-reach locations. Each is made from aluminum, steel or stainless steel. Units come equipped with pump, motor, Tigertail suction hose and washdown hose with spray nozzle. **833-475-4334; www.slideinqueen.com**



TankTec slide-in tank

Slide-in tanks from **TankTec** range from 100 to 995 gallons. The tanks are available in single-compartment for grease trap and septic service or two-compartment for portable restroom service. **888-428-6422; www.tanktec.biz**

TRANSPORT TRAILERS

F.M. Manufacturing 30-foot trailer

The 30-foot flatbed trailer from **F.M. Manufacturing** has three 3,700-pound torsion bar axles, side roller for easy loading, low-profile tires, solid front header and tie-downs on both sides. The customizable trailer has electric brakes on all axles and LED lights. **877-889-2246; www.fmmfg.com**



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Johnny Mover Trailer Sales trailer

Portable restroom transport trailers from **Johnny Mover Trailer Sales** have skid-locking, using an iron bar with a chain-binding system to secure multiple units. Models are available to handle six to 20 restrooms, and all feature brakes, paint options, lighting, leaf-spring suspension, front deflectors to protect units from road spray and debris and optional powder-coating and chrome wheels. **800-498-3000; www.cesspoolcleaners.com**

Liquid Waste Industries trailer

Custom-built portable restroom delivery trailers from **Liquid Waste Industries** carry six to 20 restrooms and come with or without sides. They are built with heavy-duty steel and come standard with leaf-spring axles, electric brakes, LED lights and 13-inch wheels and tires. Custom upgrades include gates, torsion axles, fold-down ramps, and choice of hitch. **877-445-5511; www.lwiinc.com P**



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Allen Drain Service

Kent, Ohio

President Bernie Noble added a white and blue 2023 Western Star 49X carrying a 5,000-gallon steel tank and National Vacuum Equipment Challenger Series 4310 Pro Pak blower built out by Lincoln Center Manufacturing. The truck is powered by a 500 hp Cummins X12 engine bringing power to the wheels through an Allison 4500 automatic transmission. The truck features dual drop axles, dual top-side and rear 24-inch manways, side- and rear-mounted sight glasses, dual 3-inch inlets and a 6-inch outlet with heated valves, laser-engraved diamond plate hose trays, a custom rear bumper with toolbox, Alcoa aluminum wheels, chrome stack, stainless steel visor and heated leather seats. Graphics were custom hand-painted by Dwayne Workman of DW Signs. The truck is used for septic and restaurant grease trap pumping and shared by the crew of drivers. **P**

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in the
SPOTLIGHT
By Cody Wiesner



Superior Signal 5E FLEX battery-powered smoke blower

Superior Signal's 5E FLEX battery-powered smoke blower is designed for smoke-testing building plumbing and laterals to quickly find faults, odors, leaks and inflow. The 5E FLEX is compatible with leading 18- to 20-volt tool batteries utilizing a high-quality power adapter. The 5E FLEX smoke blower integrates with existing electric toolsets or can run off any 12- to 24-volt DC power source. Smoke-testing is a cost-effective solution ideal for hard-to-find faults in commercial, residential and municipal facilities. While the 5E blower is popular for a variety of plumbing applications, it is also particularly useful in testing sewer laterals, showing where a fault or leak may occur on private property. Made in the USA, the 5E FLEX comes with an 8-foot industrial-grade hose. Used with 1A or 2B Superior smoke candles, it creates 4,000 or 8,000 cubic feet of smoke respectively. Superior Smoke candles are also sold in convenient SealPac cans that extend shelf life. **732-251-0800; www.superiorsignal.com/pflex**

compatible with leading 18- to 20-volt tool batteries utilizing a high-quality power adapter. The 5E FLEX smoke blower integrates with existing electric toolsets or can run off any 12- to 24-volt DC power source. Smoke-testing is a cost-effective solution ideal for hard-to-find faults in commercial, residential and municipal facilities. While the 5E blower is popular for a variety of plumbing applications, it is also particularly useful in testing sewer laterals, showing where a fault or leak may occur on private property. Made in the USA, the 5E FLEX comes with an 8-foot industrial-grade hose. Used with 1A or 2B Superior smoke candles, it creates 4,000 or 8,000 cubic feet of smoke respectively. Superior Smoke candles are also sold in convenient SealPac cans that extend shelf life. **732-251-0800; www.superiorsignal.com/pflex**

Infiltrator expands ECOPOD-NX line

Infiltrator Water Technologies has expanded the ECOPOD residential advanced wastewater treatment product line with the ECOPOD-NX. The ECOPOD-NX is a moving-bed bioreactor that incorporates an airlift assembly for recirculating the wastewater; the combination of the MBBR disc media and recirculation process enables the system to achieve 80% total nitrogen reduction. The ECOPOD-NX has been certified to NSF/ANSI 40 and NSF/ANSI 245 Standards. The ECOPOD-NX is available to treat residential wastewater flows of 500 gpd; larger sizes are in development. **800-221-4436; www.infiltratorwater.com**



BARESHAF PUMP PROVIDES VERSATILE DESIGN IN A COMPACT PACKAGE

Jetstream of Houston rounded out its UNx water pump lineup with the global release of a new compact 2000 Series Bareshaft pump, designed with efficiency in mind for low-horsepower waterblasting operations including hydroexcavation jobs.

The design of the new pumps includes three crankshaft-propelled plungers allowing for smooth operation and efficiency on the job site, according to Jordan Koster, product and marketing manager for Jetstream.

Pressure outputs ranging from 6,000 to 15,000 psi and compatibility with 75 hp engines make the 2000 Series the smallest pump in Jetstream's arsenal, yet retains core features Koster says Jetstream is known for, including versatility, efficiency and easy repairs.

"The thing we kept hearing was that our customers wanted to have those benefits in a smaller pump for lower-horsepower applications," he says. "Operators can quickly and easily convert between pressures in the field, making it ideal for crews that take on a range of waterblasting jobs that require different flow rates."

Repairs are doable on the field too, thanks to a design approach that allows easy swap-outs of the pump's packing, univalves and plungers, according to the maker.

"Operators are able to complete any repairs in the field with just a few parts and ordinary hand tools," Koster says. "Our UNx fluid ends don't require difficult service procedures, don't contain small, easy-to-lose parts and don't require specific torque to assemble."

While Jetstream specializes in waterblasting equipment, Koster says the 2000 pump is a good fit for industries that require oilfield inspection services and hydroexcavation.

"It can achieve a flow rate of up to 20 gallons per minute at up to 6,000 psi, offering the ability for multiple operators to run hydroexcavation jobs at the same time," Koster says. "This, combined with its ease of maintenance for maximum uptime, offers a high level of efficiency for hydroexcavation services."

Jetstream began offering the standalone 2000 Series UNx Bareshaft pump last summer, and is now available integrated with the X-Series diesel waterblasting unit. Between test markets and a January showing at the WWETT Show, Koster says the pump has been well received.

"This pump opened doors to new applications that require less power than what our other pumps operate with, and it's been a lot of fun to hear about how our customers have been using it," he says. **800-231-8192; www.waterblast.com** **P**



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California approves regulations for converting wastewater into drinking water

By David Steinkraus

The California State Water Resources Control Board approved regulations that would allow water agencies to develop treatment procedures to convert wastewater into drinking water — direct potable reuse — as reported by many news outlets.

“These regulations ensure that the water produced is not only safe, but purer than many drinking water sources we now rely on,” said Water Resources Control Board Chairman Joaquin Esquivel. The regulations comply with California’s Safe Drinking Water Act.

The proposal has been in review for over 10 years, undergoing expert panel analysis, scientific review, public input and the development of safety standards, and was approaching the state-mandated completion by the end of 2023.

The state’s goal is to recycle and reuse 800,000 acre-feet of water per year by 2030, with \$8 billion earmarked to modernize the state’s water infrastructure.

This decision also helps address the state’s water shortages arising from continuing drought conditions.

Florida

As reported by *Florida’s Voice*, Rep. Peggy Gossett-Seidman, R-Highland Beach, and Rep. Lindsay Cross, R-St. Petersburg, introduced a bill that would create an emergency database to report contamination in state waters.

Residents would be alerted of contamination found at beaches, the Intra-coastal Waterway, coastal estuaries, canals and public swimming areas regarding toxins that include fecal indicator bacteria-laden wastewater and chemicals. Sources of contamination could be anything from leaking septic tanks to malfunctioning treatment plants.

Under this bill, water safety alerts would be transferred from state agencies to the Department of Environmental Protection. A website with digital messaging would notify users to reports of water contamination.

“The complex reporting system between cities, counties and states is ineffective and outdated,” Gossett-Seidman said in a press release. “We need one central reporting method. Too often the public discovers the waters are contaminated days after they went to the beach.”

Idaho

While homeowners in Blaine County are subject to legal requirements for installing new septic systems, the Onsite Wastewater Management Program established in 2007 regarding inspection and management of existing systems

was discontinued only two years later for lack of funding during the recession.

But hopes for reinstating the program continue to be brought up at city planning meetings and public hearings. It has surfaced again with two recent applications for 24-home subdivisions, reports the *Idaho Mountain Express*.

Bob Erickson, a former environmental health specialist, who worked with the county on the original 2007 plan, expressed his concerns regarding the lack of oversight, based on his 26 years’ experience with the South Central Public Health District. Erickson emphasized that most residents don’t know much about their systems and he didn’t believe a homeowners’ association was an appropriate governing body for managing wastewater issues.

The concerns center on the growing population and the problems with relying on homeowners to oversee something they’re generally unfamiliar with, potentially causing contamination to water sources from failing decentralized wastewater systems.

Louisiana

A proposed ordinance requiring septic system inspections every three years at a cost of \$100 has been essentially defeated, reports *Nola.com*. The St. Tammany Parish Council voted to delay a vote on the ordinance “indefinitely.”

“To postpone indefinitely is a joke,” council member Rykert Toledano said. “This, to me, is the most important and needed legislation that we can look to pass in our parish. This problem should have been addressed 30 years ago.”

Sewage pollution from septic systems on the north shore is a serious problem, according to experts who had previously addressed the council. In some subdivisions, small PVC pipes trickling sewage can be seen dotting drainage ditches.

Critics were concerned about costs. While Parish officials said there would be some money available for people who needed their septic systems replaced, residents believed the costs to fix problems would be too high for the parish and its residents to bear.

Massachusetts

As reported in *The Enterprise* news outlet, the Mashpee, Massachusetts Board of Health was set to vote on a regulation requiring innovative/alternative septic systems for certain projects within 1,000 feet of wetland areas. Current regulations are 300 feet. The board will also vote on proposed fines for unlicensed or unpermitted septic system installations.



RULES & REGS

In addition, Health Agent Zackary J. Seabury said the Massachusetts Department of Environmental Protection's new Title 5 septic system regulations, originally scheduled to start in January, have been postponed until July. The regulations will require I/A systems in new construction.

New York

As reported by several news outlets, Gov. Kathy Hochul announced \$479 million in grants for critical water infrastructure projects, including the first funding awarded through the \$4.2 billion Clean Water, Clean Air and Green Jobs Environmental Bond Act of 2022. Hochul's team said the funding is projected to save ratepayers an estimated \$1.3 billion and create 24,000 jobs.

An additional \$30 million is being made available to targeted counties through the state's septic system replacement program for homeowners and small business owners.

Virginia

Many Culpeper County residents are eligible for reimbursement of 50% to 80% of the expense of pumping, maintaining, repairing or replacing septic systems, depending on the needs of their system, reports the *Culpepper Times*. The Culpeper Soil and Water Conservation District grant program continues to expand its funding to help reduce bacteria pollution in local streams. Repairing or replacing dysfunctional septic systems helps reduce *E. coli* levels.

Pumpouts are recommended every three to five years and inspections are encouraged for older systems. If repairs are indicated during an inspection, owners are eligible for additional payments.

British Columbia, Canada

The town of Midland recently voted to stop accepting septage from non-residents, reported *Midland Today*. In a 60-page report on the Wastewater Treatment Centre septage receiving station presented to city council from Tatham Engineering Limited, it was noted that between 2017 and 2022 only 12% of the septage loads originated in Midland.

"The recommendation will mean that Midland users are no longer subsidizing other residents from other municipalities," said Deputy CAO Andy Campbell, executive director of infrastructure and environment. "If the wastewater plant only receives septage and hauled waste from within Midland, the volume is such that it can be handled without having to fully upgrade the equipment."

Water and wastewater manager André Pepin added that funds from reduced operating costs will be allocated to wastewater infrastructure and maintenance projects at the wastewater treatment plant.

The announcement came as a surprise to many who rely on the facility, and leaves them scrambling for alternative disposal sites, especially as land application cannot be performed during winter and early spring.

Nation

In 2005 a partnership was created between the U.S. Environmental Protection Agency and eight private and public sector organizations, including the National Onsite Wastewater Recycling Association. Today the partnership has 25 members.

Those members gathered at EPA headquarters last December for a signing ceremony renewing the agreement titled U.S. EPA MOU Partnership for Decentralized Wastewater Management. Renewal is required every three years.

The partnership recognizes the importance of decentralized systems in the treatment of wastewater, promotes efforts to improve and manage these systems, and works to increase collaboration among members and the onsite wastewater industry. **P**



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INDUSTRY NEWS



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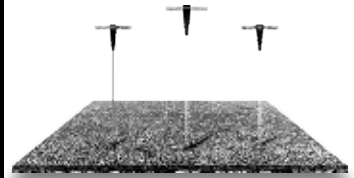
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2006 Presvac 3,200 U.S. gallon, stainless steel, D.O.T. 412, Vacuum tank only (no truck). Stock# 7272C www.vacuumsalesinc.com (888)VAC-UNIT (822-8648) (PBM)

2008 Cusco 3,150 U.S. gallon, carbon steel, D.O.T. 407/412, Full open rear door dump type tank with a Moro PM200 Vacuum pump package (no truck). Stock# 8092C www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)

2001 Presvac 3,000 U.S. gallon, C/S DOT 412, two compartment (1,000 front-2,000 rear) Vacuum tank (tank only) Stock# 6196C www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)

Presvac 2,300 U.S. gallon, Carbon Steel with a Masport H15W vacuum pump installed on a 1993 Chevy Kodiak cab and chassis. Stock# 6615C www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)

2007 Volvo VHD Triaxle with Pressvac Powervac 5300 Stainless Steel DOT 412 Haz Waste Wet Dry Dump Door Tank, Hiben 27" blower also with Presvac PV750 vacuum pump. Full 360 Boom with upgraded RPM wireless remote. Pre emission 450hp 13L Engine low miles and hours. KLM Companies 617-909-9044 (PBM)

HYDROEXCAVATING EQUIPMENT

2002 Gap Vax HG56 Stainless Steel Tank body in exceptional condition. Low miles and hours with 450 HP Cummins power and wireless remote for Boom and Hose reel with Jet rodder 80 GPM pump Hiben 8702 27" 5300 CFM Blower ready to work. One a kind machine. KLM Companies 617-909-9044 (PBM)

JETTERS - TRAILER

2018 Spartan Ultimate Urban Warrior. 65 HP Kubota engine. 21 GPM @ 4000PSI. 320 gal water tank. New 520' 1/2" hose, wireless remote, 786 hrs, skid mount (could be mounted in a truck or trailer). Has been fully serviced ready for work. \$30,000, Call 716-474-7013 (P05)

2024 US Jetting 4018-300 jet trailer. Stock# 14080. (888)VAC-UNIT (822-8648) www.vsirentalsilc.com. (PBM)



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1999 Harben 4016-300 Jet Trailer (Stock #200SC) (888)VAC-UNIT (822-8648) www.vsirentalsilc.com. (PBM)

JET VACS



2009 international 7400 Jet Vac combo. 29,275 miles. Brand new jetter hose. Comes with multiple jetter heads and vacuum stand pipes. 9 yard debris. 1,000 gallon fresh water tank. Ready to work!! **\$75,000 OBO Call 812-620-8387.** (P04)

2024 Freightliner 114SD cab & chassis with a Vacall AJV1215 Description Combination et/Vac - 12 cubic yard debris & 1,500 gallon water - Roots 824 blower with General 87 GPM @ 2,000 PSI water pump (coming in May) Stock# 14098 www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)

2023 Freightliner 114SD cab & chassis with a Vacall AJV1215 Combination Jet/Vac - 12 cubic yard debris & 1,500-gallon water - Roots 824 blower with General 87 GPM @ 2,000 PSI water pump (coming in October) Stock# 14079 www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)

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100 Berry Satellite Taurus with flush kit and sink. Very clean rentable condition for the special event market. Additional pictures upon request. Customer is responsible for pick-up from N.Y. **\$350.00 each. Please call 800-634-2085 for more information. (P05)**

PORTABLE RESTROOM TRAILERS



2018 Forest River 2 stall restroom trailer. Price: \$21,500. Please contact Casey for more info @ (707)367-0071 or **CASEYJAYSULLIVAN@GMAIL.COM. (P04)**

PORTABLE RESTROOM TRUCKS

2007 Ford F650: Pre emission. 195k miles, automatic transmission, Cat C7 engine. Fresh cab paint, new vacuum pump, new brake drums and shoes, new tires. 1200 gallon stainless steel body split 950 waste 250 fresh water. Unit has current DOT and is work ready. Call or text 734-777-0390. **\$39,000.00. (P04)**



2021 Ford F550 with FMI workmate 1050 (700 waste/350 water) with additional 75g water tank on top. 97,000 miles. Have all maintenance records. 4 toilet carrying capacity, E-trac, swing away tow hitch, pto driven. Asking **\$59,000. Please contact Ricky for more information, 208-949-0117 or email Ricky@portapros.com (P06)**



2020 Ford F250 built by Erickson tank and pump (120 waste, 40 water). Has E-trac, can hold 2 regular units with liftgate down. 98,220 miles. Asking \$39,000. Have all maintenance records. Contact Ricky for details. **208-949-0117 or email Ricky@portapros.com (P06)**



2020 Ford F250 built by Erickson tank and pump (120 waste, 40 water). Has E-trac, can hold 2 regular units with liftgate down. About 101,000 miles. Asking \$39,000. Have all maintenance records. **Contact Ricky for details, 208-949-0117 or email Ricky@portapros.com (P06)**



(4) Ram 5500's, diesel with Satellite 650 waste/300 fresh, two unit carrier. 2012 \$34,000. 2013 \$34,000 and (2) 2015 \$38,000 each. **Call 800-275-3616 M-F. (P04)**

2020 International CV515 6.6 Duramax with Allison transmission. 85k miles. Portable toilet pump truck. Aluminum tank 1100 waste/400 clean Masport pump, wash down pump and two-unit carrier. Truck is in Miami **\$82,999.00 obo. 786-488-4276 (P04)**



Portable Toilet Trucks and Slide In Tanks for sale. 2007 International DT466 engine 349k miles 2000 gallon 150/1500/350 split Massport pump freshwater wash down pump, 2008 International DT466 engine 460k (Engine and transmission replaced at approximately 300-350k) 460k miles 2000 gallon 1500/500 split Massport pump freshwater wash down pump, 2007 GMC 7500 Duramax diesel 272k miles 2000 gallon 1500/500 split Massport pump freshwater wash down pump, 3 Brenner 600 gallon 400/200 split slide in tanks approximately 6 years old Massport pumps freshwater wash down pumps. **Trucks are \$25,000 each OBO. Slide in tanks are \$5000 each OBO. Call 615-674-0129 (P04)**



2015 Isuzu NNR, 1500 gallon alum tank, 1100/400, Masport XLV4 pump, Cat Pressure Washer, D/C wash down pump, dual side service, two unit hauler, LED work lights, driver suspension seat, two Hannay hose reels, 50' hoses, 196,000 miles, all records, pics e-mail portajohn@portajohn1.com or **call 815-877-9770. \$43,000.00. Truck is ready to work. (P04)**



2019 Isuzu diesel NQR with Flow-mark service body, 6 speed automatic. PTO driven Massport pump, (1250 aluminum tank) 800 waste/450 water, fully maintained with all service records, 2 unit drop down hauler. 98,940 miles. **\$55,000 obo. Mike - 208-739-7151 (P04)**

2024 Peterbilt 548 cab & chassis with 4,000 gallon, Aluminum tank & NVE 887 pump package, Stock #14089. **www.VacuumSalesInc.com (888) VAC-UNIT (822-8648). (PBM)**



2019 Isuzu diesel NQR with Flow-mark service body, 6 speed automatic. PTO driven Massport pump, (1250 aluminum tank) 800 waste/450 water, fully maintained with all service records, 2 unit drop down hauler. 110,820 miles. **\$65,000 obo. Mike - 208-739-7151 (P04)**



2020 Isuzu diesel NQR with Flow-mark service body, 6 speed automatic. PTO driven Massport pump, (1200 aluminum tank) 800 waste/400 water, fully maintained with all service records, 2 unit drop down hauler. 82,400 miles. **\$58,000 obo. Mike - 208-739-7151 (P04)**

2017 F550 pump truck. 6.7 Diesel Engine, 185,400 miles portablerestroomsmn@yahoo.com \$37,500 Email/Text 507-412-1184 **(P04)**

2018 RAM 4500 pump truck. 170K miles. 600/300 tank. \$35,000 Email/text 507-412-1184 portablerestroomsmn@yahoo.com **(P04)**

New Imperial 1300 U.S. gallon, portable toilet service unit mounted on a 2023 Ford F550 cab and chassis with a Masport HXL4 pump package. Stock #14123. **www.VacuumSalesInc.com (888) VAC-UNIT (822-8648). (PBM)**



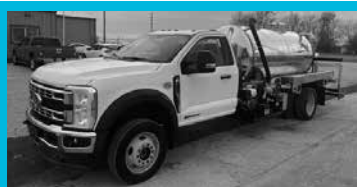
2014 Ram 5500. 1,000-gal waste/400 fresh. Aluminum tank w/ Masport pumps. **Call 720-436-3910 for more info. (PBM)**

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2017 Hino, J08E-VC, diesel, 208k, auto trans, under cdl, AC, cruise, Amthor flat tank and lift gate , 800/400, 10 pot capacity, Masport HXL75 vac pump, DC10 water pump and hose reel, very clean great running truck. Finance and delivery available, **\$42,000.00 Hulls Truck Bodies LLC 740-820-5338 (PBM)**



2024 Ford F-550 4WD 330HP Diesel Auto. We also have Dodge and Chevy with Lane assist, Adaptive cruise control, Back up camera on LED screen, chrome package etc... 1250 Gallon Aluminum or Steel tank with 350 gallons of fresh water and a Masport HXL75 Call Jonathan @ 501-388-9565 or email Jonathan.Ironvac@gmail.com **Multiple other portable toilet trucks available now (P04)**

2024 Peterbilt 536 cab & chassis with 2,150-gallon, two compartments (1,600 waste – 550 water) with an NVE B250 blower package, a DC10 washdown pump, dual service, strobe package, toilet carrier and backup camera. Stock# 14095. www.VacuumSalesInc.com **(888) VAC-UNIT (822-8648). (PBM)**

PUMPS



Complete Engine, Pump and Porch for Semi Tanker Setup. Well Maintained on Regularly Scheduled 90 day Maintenance Program. Have to sell due to California Emissions Compliance. Engine: Make Deutz Horsepower:62 4Cylinder Air Cooled. Serial Number:5461383. Pump Make:Fruitland Model:1200LUH Year:2021. Serial Number:121866. **\$21,000.00 OBO. Call Warren Van Dam 760-290-3306. (P04)**

Conde Provac3 complete unit with Honda GX160 electric start engine brand new never installed oil catch included asking \$2000.00 Phone 660-216-1964 (P04)

2 NVE 887 pumps with stand and right angle gear box muffler and oil drain 1 jurop pn58 with pump stand And hydro pto with tank. Call Fabian 720-436-3910 (PBM)

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SEPTIC TRUCKS



2001 International, ISM Cummins, 370h.p, 168k miles, 10spd, jake, AC, cruise, Hendrickson suspension, 20 front, 46 rears, double frame, 4800 gal alum tank, 300 fresh water, Jurop PNR 122 vac pump, very clean southern truck. **\$39,000.00 Hulls Truck Bodies LLC 740-820-5338 (P04)**



1996 Chevy C60, 3116 Cat, 5 speed hi low. good rubber, ready to go to work. Call Willson: **850-653-9406. Florida panhandle. \$22,500 I don't do credit. (P04)**

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2024 Peterbilt 548 and 2025 International HV607. Cummins Engines. Allison Automatic Transmissions. 4,000-gallon Aluminum Tanks. **Call Hayden Evans 501-388-9464. (P04)**

2008 Peterbilt 340 cab & chassis with a Presvac 3,600 US gallon. Aluminum tank and Masport pump. Stock# 8288V www.VacuumSalesInc.com, **(888) VAC-UNIT (822-8648) (PBM)**



Truck is 1992 Chevrolet Kodiak with 3116 motor and automatic transmission with 16x,xxx miles, tank is 2,500-gallon Imperial aluminum. Pump is National Vac with new vanes 6 months ago. **Troy 231-878-2339 \$14,000 obo (P04)**



1989 Pump Truck with approx a little over 100,000. With a 2,500-gal. Abernathy welding tank. A remanufactured 7.8L Brazilian diesel motor. Motor runs great. Has a Masport H400W pump. Needs work done on the pump. **Price 13,500 OBO. Contact Tim Porter 804-640-3606 Text ok (P05)**



2000 Freightliner. 5,000-gallon pump truck FL122 with jetter **\$35,000. Runs great 561-302-7195 (P05)**

1992 International 2554 cab & chassis with a Keith Huber, Dominator 3,300 U.S. gallon, C/S, Full open rear door, dump unit with a Wittig LPK100 vacuum pump Stock # 1298C www.VacuumSalesInc.com, **(888) VAC-UNIT (822-8648). (PBM)**



Selling our other part of the fleet as lost a food processor plant contract. 2006 International 8600 with an ism 385 H.P. Cummins, Eaton fuller 10-speed. Hydraulic drive to a rebuilt jurop R260 pump. Tires and brakes 75%. Clean rust free solid truck. Newer solid 3,500-gallon vac tank baffled. Great running truck and ready to start pumping. \$49,900. Can deliver anywhere for the fee. **Serious buyers only please call 608-558-0870. Thanks. (P04)**

Coming in May! 2024 Peterbilt 548 cab & chassis with 4,000 gallon, Aluminum tank & NVE 887 pump package Stock #14150. www.VacuumSalesInc.com, **(888) VAC-UNIT (822-8648). (PBM)**



2015 INTERNATIONAL 4300. New Heavy Duty 2000 Gallon Tank. New Jurop Pump PN-58 (230 CFM). Navistar DT466 (245 HP). Allison Automatic. **\$80,000. National Truck Center. 305-691-8407 (P04)**



2014 Freightliner Cascadia. 4,600 Gallon Aluminum Tank. New Jurop LC-420 Razor-Pak (425 CFM). Detroit DD13 (450 HP) 10-Speed Manual. **\$110,000. National Truck Center. 305-691-8407 (P04)**



1997 Volvo. 3,600-gallon steel tank with hoist. Masport pump. 3" intake & 6" dump heated valves. **\$28,000 or BO. Peter. Minneapolis, MN 612-559-3456. (P04)**



2017 Freightliner M2-112 with 311K miles. Engine is Detroit DD13 430HP. Full-er automatic transmission, double frame. New Massport pump already installed. This truck is ready for a 4,000-gallon tank not included in price, location is Hickory, NC. **Asking \$79,500 call or text 704-231-3443. www.allcommercialmotors.com (P04)**



2024 Peterbilt 548 - L9 Cummins/Allison 3000, in production and made for pumping with an air-ride suspension, diff locks, 66k GVWR, chrome package etc... 4,000-gallon Aluminum tank with your choice of pump - **Call Jonathan @ 501-388-9565 or email Jonathan.ironvac@gmail.com (P04)**

2012 Chevy 3500 HD with a 600-gallon, carbon steel, vacuum Tank & Fruitland RCF500 pump package. Stock# 9187C **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648).** (PBM)



2024 Mack MD6/7 - 6.7L Cummins/Allison 2500, in stock and made for pumping with an air ride suspension, diff locks, 26k or 33k GVWR, chrome package etc... 1800-2500 gallon carbon steel or aluminum tanks with your choice of pump - Call Jonathan @ 501-388-9565 or email **Jonathan.ironvac@gmail.com for new made to order units and stock units of all sizes. (P04)**

2005 Freightliner tri-axle – Cat C13 engine and 8LL transmission with a Keith Huber 4,000 gallon, full open rear door, dumping Type tank & Becker 440 pump package. Stock# 9681V **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648).** (PBM)

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Mack RD690S, 1997 roll of septic/dump body. One truck will pump tanks, haul dirt and trash. Truck bought new. Now I wish to retire, selling off all inventory. Truck has 566,000 miles, still runs good (better than me!) **SELLING AT REDUCED PRICE \$31,000.00 Call me for info if you are interested. MIKE @ 386.804.8008 (P04)**



2004 Freightliner M2 Pump Truck. 1400-gallon New Tank and Pump, new hoses, lights and valves. Color is White. Air Ride, Automatic Transmission 2500 Allison, C7 CAT Motor, Radio, 65% Rubber on tires. Mileage: 197,000. **\$30,000 Firm. 800-721-2774 (PBM)**

2002 Freightliner FL70: 212,000 original miles with a 6 speed manual transmission. 33k gvw with hydraulic brakes. 2500 gallon vacuum tank with a Masport 400 cfm liquid cooled vacuum pump. Tank and pump were installed on the truck 10 years ago. Run, drives, and pumps as it should. Unit could use paint and tires. Call or text for more info 734-777-0390. \$25,000.00. Delivery available. (P04)



2007 Mack Granite, 8LL, 225,000 miles, Masport pump package, 4400-gallon steel tank. Turn Key. **\$58,000 OBO. (866) 720-4999. (PBM)**

2003 Peterbilt 330 cab & chassis with an Andert 3,500 U.S. gallon, C/S, vacuum tank & Fruitland RCF500 vacuum pump Stock # 2635 **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648).** (PBM)

1997 Peterbilt 378 cab & chassis with a Presvac 3,000 U.S. gallon, C/S, vacuum tank & Masport HXL15WV water cooled pump. (Stock #6625C). **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648).** (PBM)



New 2024 Dodge Ram 5500 with Aluminum 1250 gallon tank 900 waste/350 fresh Masport Pump Heated valves Toilet Rack water hose, suction hose, tool boxes, water pump, etc. **Call Rodney at 270-832-3793 (PBM)**

1997 Ford with Cosco 3,200-gallon DOT certified dump and door liquid vacuum truck. Cat engine with Moro M9 vacuum pump. Runs and pumps excellent. \$24,500. KLM Companies 617-909-9044 (PBM)

2005 Keith Huber Dominator, 4,000 U.S. gallon, dump type unit, with a Wittig RFL100 hydraulic driven vacuum pump. Stock# 004SV. **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648).** (PBM)

Pre-Owned 2,500 U.S.-gallon, carbon steel, vacuum tank. **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648).** (PBM)



2016 Freightliner Cascadia, Cummins ISX 450hp, automatic, 455k miles, NEW 3,500-gallon vacuum tank, NEW NVE607 380 CFM vacuum pump, aluminum rims, truck serviced, DOT inspected, can be delivered. **\$105,000. Phoenix Truck Center 404-844-8968 or 678-371-4782. (PBM)**

2003 Peterbilt 330 cab & chassis with an Andert 3,500 U.S. gallon, C/C, vacuum tank & Fruitland RCF500 vacuum pump. Stock # 2635 **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648).** (PBM)

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New 4,000 U.S. gallon, aluminum, vacuum-pressure tank mounted on a 2023 Peterbilt 548 cab & chassis with NVE 4307 Blower Package. (Stock #14006). **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648).** (PBM)

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Pre-owned 1984 Mack R686ST cab and chassis with a 3,000 U.S. gallon, carbon steel, vacuum tank unit. (Stock # 6115C). **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648)** (PBM)

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550-gallon steel slide in, 100-gallon poly water tank. Masport HXL-3V vacuum pump w/9-HP Honda engine. 30' of 2" waste hose, 50' garden hose on hose reel. Toico water pump, 3" discharge. 7,000-lb GVWR tandem axle trailer. **Call our sales office at 800-558-2945, salesinfo@imperialind.com. (PBM)**

TANKS



Complete slide in tanks of various sizes. Please call Rodney at **270-832-3793 for more information. (PBM)**

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1989 Petrosteel 5,500-gallon, carbon steel, vacuum tank trailer. Stock# 1146C www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)

TRUCKS (DUMP, SEPTIC, MISC.)



2009 Hino Diesel 268. New Allison transmission. 2 year warranty 1500/waste500/water. Masport Dc10 wash down 2 unit carrier. **Fabian 720-436-3910 (PBM)**



2003 Sterling Acterra. Mercedes-Benz OM 906 engine. 185k miles. 11,600 hrs. 2,300 gal Prime Industrial tank. Battioni MEC/6500/P pump. Rear light assembly has deterioration on both sides that will need attention. Minor body damage on right front. **Asking \$28,500 (715)589-4409 or office@edneuens.com (P04)**



2019 MV607 Int. Cummins, Allison, 155, 500 miles, 500/1500 aluminum tank. TSI Tank Services, Inc. **866-720-4999 (PBM)**



2024 Freightliner 108SD with 4,000-gallon steel tank. Cummins Motor 58,000 GWW 20,000 lift. \$207,000.00 Plus FET Tax. **Call Rodney Lane 270-832-3793 (PBM)**

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2003 Chevrolet Cube Van engine Vortec 6000 V8 SFI Gas and DUAL REAR WHEELS. ASKING \$8,000 AS IS. Summit White with Supreme Box/built in shelves and hinged rear doors. Pewter Interior. Power steering, front/rear disc brakes, independent front suspension, 2 stage multi-leaf RR springs, 35 Gallon Fuel Tank, driver and front air bags, front stabilizer bar, brake/trans shift interlock, daytime running lights, four wheel anti-lock brakes, steel side door beams, passlock theft deterrent, am/fm clock radio, front a/c, front/side window defoggers, intermittent wiper system, gages and trip odom, high back front seats, 2 power outlets, 3 cup holders, front vinyl floor covering, camper style ext. mirrors. In 2023 Engine seized after oil plug fell out whereas van towed to our shop. Always serviced prior to engine issue. Would make a good vehicle with engine replaced (approx. \$2700 for good used) or parts truck. Mileage unknown/guestimate 150,000. Minimal rust. Issue with right rear spring. Can be seen in Battle Creek MI. Buyer responsible for any arrangements/freight to ship. Title free/clear. **SERIOUS INQUIRIES ONLY, Please Call 8:00am-8:00pm ET 269-962-1070 press 1 if nights or weekends. (P04)**



1993 f800 32,000 miles 8.3 Cummin auto 2000 gallon Thompson tank with piston pump model J none certified hazmat tank. **Fabian 720-436-3910 (PBM)**



2015 International, Cummins engine, Allison auto, 215,000 miles, NEW 2,650 aluminum tank, NEW NVE 607 Pro Max package, Custom tool rack front. **Call for pricing. (866) 720-4999 (PBM)**

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TV INSPECTION



2003 Chevy "Workhorse" step van with a 350 hp gas engine with 52,034 miles. Truck runs well and well maintained. The system is powered by an Onan 7 Kw gas generator with 3788.2 hours on it. The truck was setup to operate an Aries TV system along with the chemical grout application system. The grout reel system will need a new "quad hose". It comes with twin 431 Cat chemical pumps both operate. It has two 45-gallon stainless steel tanks. It has a Dayton compressor with a 26-gallon tank **Price: \$12,500**
If interested - call Tom at: 262-695-2340 (P04)

New IBAK Mainline pipe line inspection system with Orion; Nanopan; tilt cameras, T66; T76 tractors, BS7 control unit, 1,000 foot cable, LISY lateral launch Mounted in a 14' commercial FRP conversion box van With power retractable rear canopy; wall heater - Mounted on a Ford E-450 Stock# 14085 www.vacuumsalesinc.com (888)VAC-UNIT (822-8648) (PBM)

VACUUM EQUIPMENT

2012 Fruitland 500 pump hydraulic driven with pumps (trans and pump) also hydraulic tank and oil catch muffler never used started to build truck but never finished kept in heated garage 1000.00 or best Mike 248-467-0569 (P04)

VACUUM LOADERS

2008 Guzzler Classic Wet/Dry with Sterling Cab and pre-emission Cat C13 motor, Hibon 27" blower, Exceptional Condition 20,000 Miles and 3400 hours KLM Companies 617-909-9044. (PBM)

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2024 FREIGHTLINER M2

4000-Gallon Aluminum Vacuum Tank, NVE 4310 Blower,
Allison Automatic Transmission, Cummins L9 350HP Engine



2024 PETE 567

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