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Spotless restroom equipment attracts new customers and keeps the dollars flowing for Ohio's Mr. Clean Port-A-Potties

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ON THE COVER:



Sherry and Eric Storts, owners of Ohio's Mr. Clean Port-A-Potties, are shown with a PolyJohn restroom at a fairgrounds location. (Photo by J.D. Pooley)

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- PROFILE: Making changes in Mississippi
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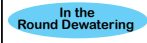

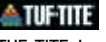




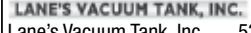

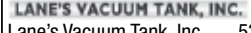





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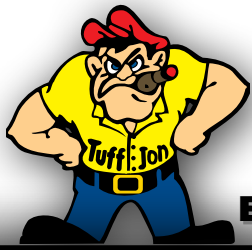


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Contact Jim with your comments, questions and opinions at editor@pumper.com.

Jim Kneiszel
Editor

The Future of Noncompete Clauses Is in Question

Some pumpers love them and some pumpers hate them. What will happen if the federal government strips away this frequently used control in the pumping industry?

By Jim Kneiszel

Noncompete clauses. Depending on your situation in the wastewater industry, you either love them or hate them. So you may have a visceral reaction one way or the other to hearing that the federal government wants to ban contract language that prevents workers or business sellers from moving on immediately to another pumping enterprise.

The Federal Trade Commission — which cites its mission as “protecting the public from deceptive or unfair business practices and from unfair methods of competition” — recently determined that noncompete clauses are an exploitive practice that “suppresses wages, hampers innovation and blocks entrepreneurs from starting new businesses.”

Calling noncompetes a violation of Section 5 of the Federal Trade Commission Act, the agency proposes a ban that could go into effect later this year. But it won’t be before opponents likely try to squash the efforts in the courts. These contract clauses have been banned in several states already, but remain a popular among many employers and as part of business sales.

“The freedom to change jobs is core to economic liberty and to a competitive, thriving economy,” FTC chair Lina Khan said in a release. “Noncompetes block workers from freely switching jobs, depriving them of higher wages and better working conditions, and depriving businesses of a talent pool that they need to build and expand.”

The noncompete ban would raise wages by up to \$300 billion per year for 30 million Americans, according to the FTC.

PUMPER EXAMPLES

The wastewater industry is like many others and would be impacted by new rules. Consider two scenarios I’ve heard from *Pumper* readers many times over the past decade as noncompete clauses have become more routine:

- A small mom-and-pop pumping business sells out to an expanding regional or national service provider. The seller turns over the customer list and equipment and the buyer requires the seller to stay out of the industry for a period of time, say five years.
- An employee new to the industry joins a pumping company. The employer spends time and money to train the employee, and to protect that investment, requires the employee to sign a paper promising not to jump ship for different company or to start a competing service. The restriction might be for one year or more.

“Noncompetes block workers from freely switching jobs, depriving them of higher wages and better working conditions, and depriving businesses of a talent pool that they need to build and expand.”

– Lena Khan

In the case of the sale of a pumping business, it’s easy to understand why the buyer wants a noncompete agreement. It prevents the pumper, who presumably was doing a great job to build up the business, from turning around and competing for the same customers. The seller may understand the noncompete is part of the value of the sale just like the trucks, customer lists and workers are.

However, the selling pumper’s attitude may change. Many times I have heard a similar story from pumpers who sold a longstanding, successful family business. They took pride in their work, but then shortly after the sale, their former customers started approaching them with complaints about the new company’s customer service. The selling pumper grows frustrated because he is prevented from jumping back in with a new truck and company name to serve these customers.

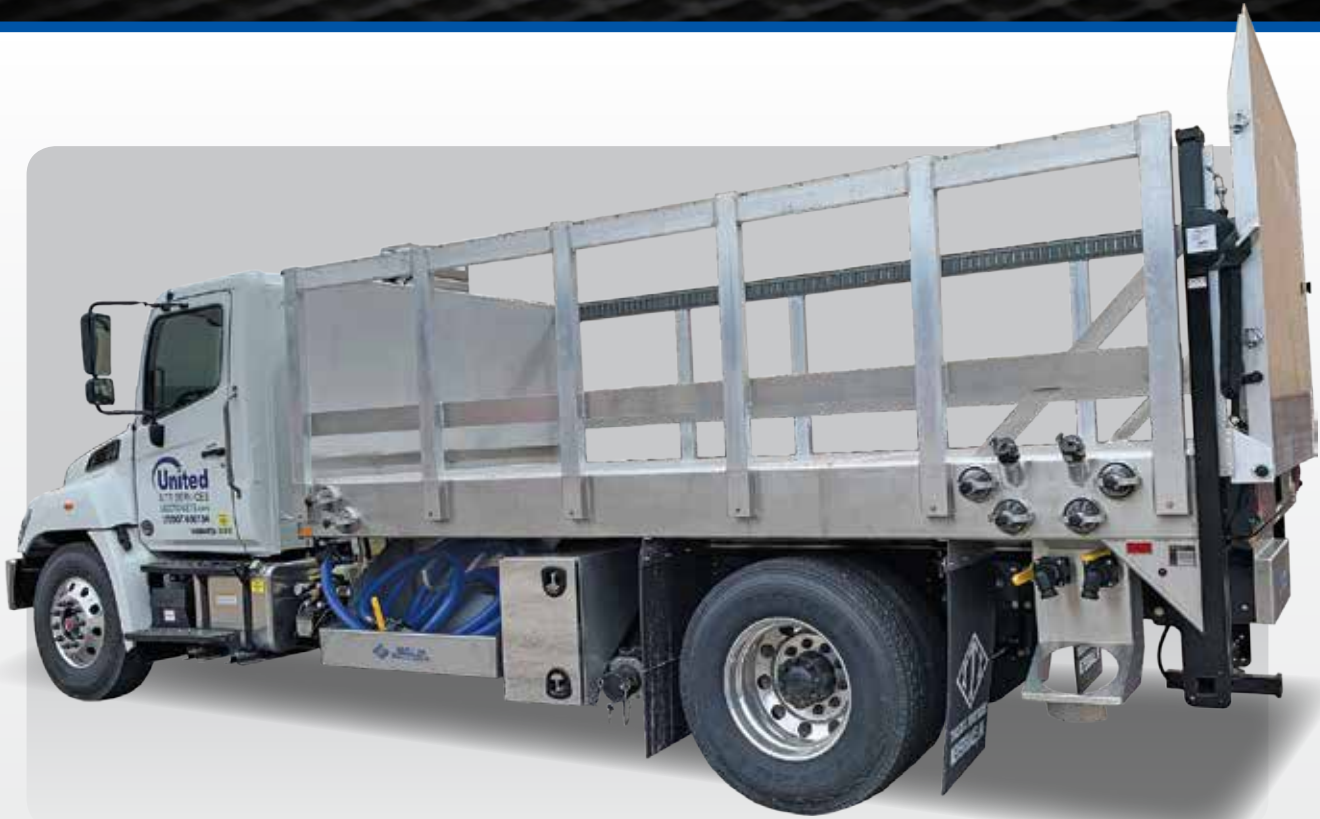
In the case of the service technicians, you can understand why their employers would like to guarantee some time on the job after investing in significant training. In some cases, employers are also footing the bill for drivers to acquire their CDL to drive bigger trucks.

The technicians could have a different point of view about the noncompete clause. While many drivers are happy staying with their new employer for years, what if they grow dissatisfied with the wages and benefits? Or what about the industrious pumpers who want to leave their employer to start a business of their own? They may feel powerless to advance in the wastewater industry.



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A BATTLE IS BREWING

Like it or hate it, the Federal Trade Commission sides with the pumpers who sell their businesses and the employees who work for a pumping company. And, if implemented by the FTC, the rule change would be retroactive, meaning existing noncompetes would be rescinded.

"There is at least a reasonable likelihood that the FTC will adopt this rule in some shape or form in 2023," New York attorney Mark Goldstein said in a report by SHRM, the Society for Human Resource Management. "It would effectively change how many, if not most, U.S. companies operate from the perspective of retaining key talent and safeguarding against employees taking the company's 'secret sauce' and duplicating it right across the street."

A SHRM official has said the proposal is overly broad and could hurt businesses that rely on noncompete clauses. Among other things, opponents argue such a ban should fall under the Department of Labor, not the FTC. While the proposal could be enacted by the agency by this summer, it would likely face litigation.

The states that have already banned or restricted noncompetes are California, Colorado, Illinois, Maine, Maryland, New Hampshire, North Dakota, Oklahoma, Oregon, Rhode Island, Virginia and Washington, according to SHRM.

If lawsuits come, it seems like the U.S. Chamber of Commerce might become involved. The group strongly opposed the noncompete ban in a release.

"The Chamber is confident that this unlawful action will not stand," said Sean Heather, a Chamber senior vice president. "Attempting to ban noncompete clauses in all employment circumstances overturns well-established state laws which have long governed their use and ignores the fact that, when appropriately used, noncompete agreements are an important tool in fostering innovation and preserving competition."

CHALLENGES AHEAD

Raising wages in today's inflationary economy would be alarming to many owners of pumping companies I've talked to. During and post-pandemic, pay for drivers has already risen dramatically. But employees will note that everything else has gotten more expensive over the years, so shouldn't wages rise with the cost of living?

I also understand the challenges company owners have today dealing with chronic worker shortages and employee retention. No matter how tough these issues have been in the past, we seem to be in uncharted territory. The trades workforce is just not adequate right now and owners aren't sure how they are going to afford the workers they have on payroll.

However, consider the guys and gals on the business end of the hose, too. They would welcome more freedom to maximize the value of their skills and the ability to strike out on their own. I know many entrepreneurial pumpers have to understand their workers wanting to get ahead and live the same American Dream they have realized.

So what do you think? Would the noncompete ban hamper small business owners or spur new business and better customer service in the long run? **P**



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TEAM BUILDING

attending the WWETT show

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DRAIN CLEANING

examining clog culprits

There are a few different kinds of pipes in the world, and a lot of different ways those pipes can become clogged. In this online exclusive article, plumber and author Anthony Pacilla takes a look at some of the most common ways each type of pipe clogs and how to clear the problem.

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“Do you see your customers as people that need you to sell them something, or are they people with a problem that you are there to solve?”

– *How to Increase Loyalty and Retain Long-Term Customers*
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SAFETY HABITS

don't normalize deviance

When employees stray from following safe practices it can lead to bad habits. At first, these deviations may seem small and unnoticeable; they may even become the norm. But in order to prevent accidents, job supervisors and employees must know the safety standards and apply them every time.

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GOOD INSTALLING

walk away when the soil is wet

Using natural soil to accept septic tank effluent is always important. However, on wet sites where water is close to the surface, or in high clay-content soils that maintain water for longer periods after rainfall, keeping it natural and avoiding problems is more difficult. Therefore, it is very important to protect the area from other construction activities.

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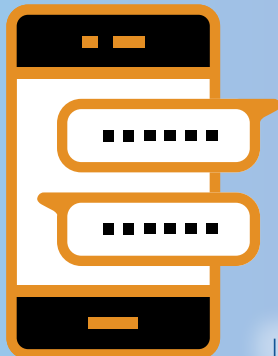


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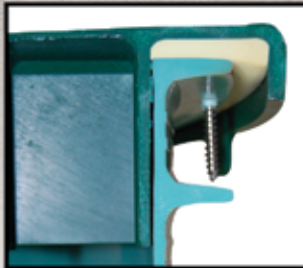
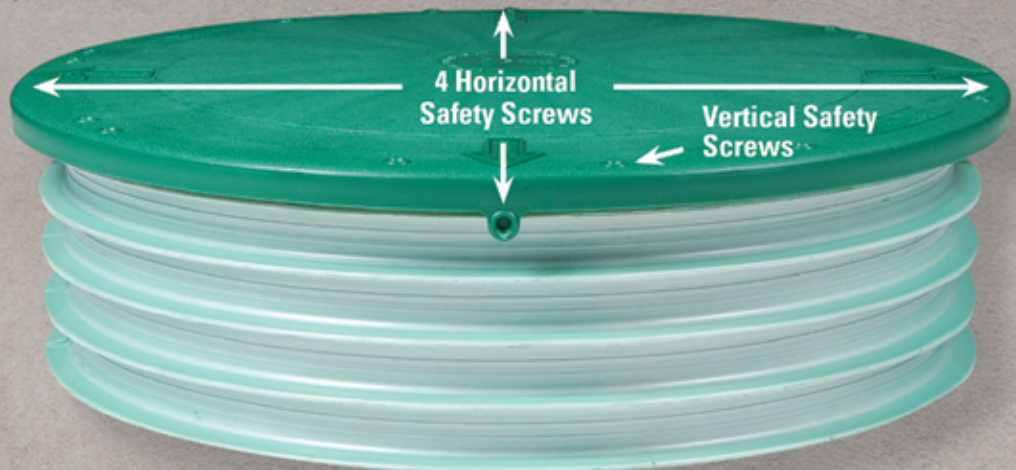
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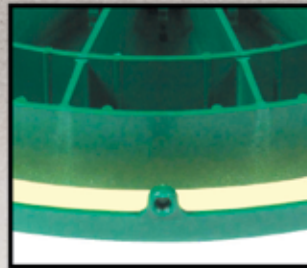
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CLEAN BRINGS THE GREEN

Spotless restroom equipment attracts new customers and keeps the dollars flowing for Ohio's Mr. Clean Port-A-Potties

By Ken Wysocky

When Sherry and Eric Storts bought Mr. Clean Port-A-Potties in 2008 — a company with just one service truck and 34 restrooms — they envisioned it as a supplemental source of income, not a career- or life-changing investment.

“Eric had always wanted to run a business and thought this might be a pretty good part-time gig,” says Sherry Storts. “With just 34 restrooms and one truck, he figured he could keep up with it.”

“So we decided to do it — test the waters and see how it goes.”

But by 2011, the Springfield, Ohio-based company had grown so large that Eric quit his job as a diesel mechanic. Sherry followed suit the same year, leaving her position in a high school cafeteria to work the business full time.

Today the company employs five people and owns about 1,000 restrooms, eight service vehicles, 16 restroom trailers and numerous hand-wash stations, sanitation stands and holding tanks. Monthly restroom rentals generate about 70% of revenue and special events contribute the balance.

“Things just kind of took off,” Storts says. “It’s just crazy how it happened. We didn’t do that much marketing — things just sort of kept falling into our laps.”

The Storts’ experience speaks volumes about the importance of providing great customer service, which leads to word-of-mouth referrals — the most valuable kind of advertising, as well as the least expensive. Their success also underscores the value of investing in productivity, enhancing equipment and recognizing new markets — in this case special events — that can generate new revenue streams.

STICK TO FUNDAMENTALS

What is the Storts’ secret sauce for success? It’s a pretty basic recipe: Provide prompt service. Clean restrooms like they’re your own. And answer the phone 24/7.

“It’s funny how the little things make such a big difference,” Storts says of the company’s stick-to-the-basics business philosophy.



📍 The Mr. Clean crew includes, from left, Tony Rozmus, Evan Storts, Eric Storts, Sherry Storts, Zach Storts, Cameron Doggett and Tim Naff. They are shown at an antique show and flea market. The company's fleet comes from Robinson Vacuum Tanks, Advance Pump & Equipment, Best Enterprises and Imperial Industries. (Photos by J.D. Pooley)

Merely answering the phone is an extremely effective and inexpensive way to cultivate customers. A number of clients — especially construction contractors — have told Storts they find it very difficult to find portable restroom companies that will call them back, much less answer a phone call in person.

“It’s a little thing, but it’s a big deal for people,” Storts says. “There have been times when Eric has answered the phone and booked restrooms at 1 a.m. People usually apologize and tell him they were expecting to get an answering machine, not actually talk to someone that late at night.”

Responding quickly to customers’ needs also boosted word-of-mouth referrals. Helping special-event customers out of a jam goes a long way to creating loyalty.

“Once you bail them out, they never waver from using you again,” she says. “We get a lot of business that way.”

Of course, providing great service requires reliable, hard-working employees. The couple relies heavily on three full-time technicians: Eric’s



📍 Sherry and Eric Storts, owners of Mr. Clean Port-A-Potties.

“ERIC HAS ANSWERED THE PHONE AND BOOKED RESTROOMS AT 1 A.M. PEOPLE USUALLY APOLOGIZE AND TELL HIM THEY WERE EXPECTING TO GET AN ANSWERING MACHINE, NOT ACTUALLY TALK TO SOMEONE THAT LATE AT NIGHT.”

SHERRY STORTS



Mr. Clean Port-A-Potties
Springfield, Ohio

OWNERS:	Eric and Sherry Storts
FOUNDED:	2007
EMPLOYEES:	5
SERVICE AREA:	A 50-mile radius around Springfield
SERVICES:	Portable sanitation
WEBSITE:	www.mrcleanportabletoilets.com

► Pumper PROFILE



▶ Sherry Storts and Tony Rozmus service a row of J&J Portable Sanitation Products restrooms during a special event.

▶ Storts stocks a portable restroom during a four-day antique and flea market that is the company's biggest special event.

retired uncle, John Brown; Cameron Doggett; and Tim Naff. Steve Judy also chips in as a part-time route driver, while Tyler Baughman and Tony Rozmus help out two to three days a week during peak season, Storts says.

"They're a good group of guys who really know what they're doing," she says. "We wouldn't be where we are without them. We're very lucky."

DIVERSE CUSTOMERS

Initially, Mr. Clean only did monthly rentals, primarily for farmers and local cemeteries. But business mushroomed. The company serves a diverse range of customers for monthly rentals that developed organically. For example, Storts says in 2020, the business rented two three-stall and two four-stall restroom trailers to a large company for a big remodeling project.

But when the two-year project was completed, the company decided to keep two trailers on hand for employees to use, then later opted to rent just one 10-stall trailer.

"They said the trailer unit is kind of handy to have around," Storts notes. "You just never know where things will lead."

The company also recently rented 50 restrooms for about 10 months to a construction company building an Amazon distribution center in Dayton, Ohio. Route drivers also delivered water to and pumped out waste from three job site construction offices. The restrooms were cleaned three times a week, she says.

Construction supervisors often change jobs within the industry, which further enhances growth opportunities — provided they received customer service good enough to warrant maintaining the relationship, Storts says.

NEW MARKET NICHE

In September 2009, the business tackled its first special event, a one-day festival called CultureFest that celebrates diversity with music, food and entertainment.



Now the company provides restrooms for roughly 40 special events a year, including festivals, weddings, concerts and bigger occasions, such as the Springfield Antique Show and Flea Market Extravaganza, a four-day event held twice a year at the Clark County Fairgrounds, about 20 miles northeast of Dayton in west-central Ohio.

Mr. Clean also provides restrooms and restroom trailers for the Cornfield Shows, an annual series of performances organized by nationally known comedian Dave Chappelle at a venue called the Wirrig Pavilion in Yellow Springs. Chappelle lives in Yellow Springs, which is about 10 miles south of Springfield.

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▲ Tony Rozmus thoroughly cleans a restroom on a service route.

The shows, which began in 2020, have included appearances by prominent comedians such as David Letterman, Chris Rock, Jimmy Fallon, Jim Carey and Jon Stewart, as well as other music, television and movie stars. The venue holds about 1,000 people.

As the company's special-event business grew, in part by putting business cards inside restroom trailers, so did its inventory of equipment. The company now owns 16 restroom trailers from Rich Specialty Trailers, JAG Mobile Solutions, A Restroom Trailer Co. (ART), Comforts of Home Services Inc. and Lang Specialty Trailers.

EQUIPMENT CORNER

The company's restrooms are mostly from PolyJohn, along with units from Satellite Industries and J&J Portable Sanitation Products; 50 hand-wash stations are from Satellite and PolyJohn; roughly two dozen 300-gallon holding tanks and approximately 50 hand-sanitation stands, are mostly from PolyJohn; three flatbed trailers that can hold 10 restrooms each, one made

by McKee Technologies and the others fabricated in-house; and a 10-sink trailer from McKee Technologies.

All the trucks were built out of Ford F-550 chassis by Robinson Vacuum Tanks, Advance Pump & Equipment, Best Enterprises and Imperial Industries. Most of the trucks feature stainless steel tanks; the rest carry aluminum tanks. Most of them are equipped with Masport vacuum pumps, plus a few from Conde (a brand owned by Westmoor Ltd.), Fruitland Manufacturing and National Vacuum Equipment.

Most of the tank capacities are 650 gallons waste/300 gallons freshwater. The smallest tank is a slide-in unit with a 400-gallon waste/200-gallon freshwater tank and the biggest one carries 800 gallons of waste/400 gallons of freshwater.

Most of the company's trucks are about five years old or less. Newer trucks pay dividends by minimizing breakdowns that can quickly fracture relationships with customers. And newer, well-maintained trucks make a good visual impression and enhance the company's professional image, Storts says.

MORE INFO

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www.arestroomtrailer.com
Ad on page 55

Advance Pump & Equipment, Inc.
563-557-0957
www.advancepump.com

Best Enterprises, Inc.
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www.bestenterprises.net

Comforts of Home Services Inc.
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Fruitland Manufacturing
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J&J Portable Sanitation Products
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www.jjportable.com

JAG Mobile Solutions
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www.langrestroomtrailers.com
Ad on page 73

Masport, Inc.
800-228-4510
www.masportpump.com

McKee Technologies - Explorer Trailers
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National Vacuum Equipment, Inc.
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PolyJohn
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Rich Specialty Trailers
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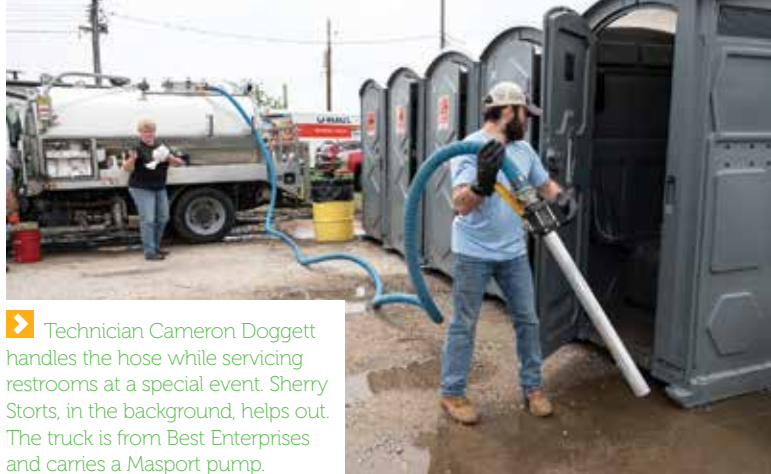
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▶ Technician Cameron Doggett handles the hose while servicing restrooms at a special event. Sherry Storts, in the background, helps out. The truck is from Best Enterprises and carries a Masport pump.

“I still remember when we bought our first new truck,” she says. It was a 2016 Ford F-550 with a 680-gallon waste/300-gallon freshwater steel tank made by Imperial Industries.

“I remember how we used to walk around the Pumper show (the Pumper and Cleaner Environmental Expo International, now called the WWETT Show) and look at the trucks and talk about how we couldn’t wait to buy our first brand-new truck,” she recalls. “Buying that truck was one of our proudest moments.”

KEEP IT GROWING

As Storts looks back to where things started 15 years ago, she still marvels at how the company grew with a marketing program that essentially consisted only of word-of-mouth referrals, a website, a Facebook page and business cards.

“Did we ever anticipate getting this big? Heavens, no,” she says. “We never expected this kind of growth.

“But on the other hand, Eric and I are very competitive and hungry,” she continues. “So when things started rolling, we decided to push it as hard as we could to see how far we could take it.”

In 2023, the couple plans to literally take the company out even further by establishing a foothold in the Columbus area, about 50 miles east of Springfield.

“We’re hoping to hire a couple more good guys, plus hire an office worker who can handle the phones,” Storts explains. “I like to get in a truck with Eric and help him out, so to do more of that I need someone to handle things in the office while I’m gone.

“The only thing that might slow us down is if we can’t find more drivers,” she continues. “But we’re definitely still in growth mode — ready to push harder and further broaden our business horizons.” **P**



▶ Tony Rozmus, left, holds a door while Cameron Doggett cleans a J&J Portable Sanitation Products restroom at a special event.



Great Equipment Pays Dividends

Building a successful business inevitably means making strategic investments in equipment. A good case in point is the restroom trailers and larger-capacity service trucks purchased over the years by Mr. Clean Port-A-Potties.

After dipping its business toe into the special event waters in 2009, the company — owned by Eric and Sherry Storts — has invested in 16 restroom trailers of various sizes. They’re made by Rich Specialty Trailers, JAG Mobile Solutions, A Restroom Trailer Co. (ART), Comforts of Home Services Inc. and Lang Specialty Trailers.

There’s no doubt restroom trailers represent a significant cost. But they can quickly pay for themselves and open up a new market for servicing lucrative special events, says Sherry Storts.

What would Storts tell a fellow PRO who’s thinking about buying one? Go for it, she says.

“I would say as long as you properly market them, go ahead and get into restroom trailers — they’re a definite plus,” she says. “Start small and see where it takes you.”

Storts also cites the purchase of two larger vacuum trucks as great examples of productivity- and profitability-enhancing investments. Robinson Vacuum Tanks and Advance Pump & Equipment built out the two Ford F-550s with 350-gallon water tanks plus 800- and 500-gallon aluminum waste tanks, respectively.

The company needed trucks that could carry more than just two restrooms because more and more customers were ordering larger quantities. So they opted for trucks with flat tanks that serve as the bed of the truck, coupled with a transverse-mounted aluminum waste tank behind the cab.

The end result: The Portalogix 1150 truck from Robinson can carry four restrooms atop the water tank. It’s equipped with a pump from Fruitland Manufacturing. And the Pickup & Delivery model truck from Advance carries up to four restrooms on the bed. It’s equipped with a 304 Challenger pump from National Vacuum Equipment.

“It’s a real godsend to not have to go back and forth, carrying two restrooms at a time,” Storts says. “Or sometimes we’d have to take a trailer along. But now we can do many of our deliveries in one trip.

“We happened to see the truck in Pumper or PRO Monthly magazine and Eric thought they’d come in real handy,” she adds. “And they have. Plus they reduce our costs for fuel and minimize wear and tear on the trucks.”

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Laurie Guest
Contributor

Laurie Guest, CSP, CPAE, is a speaker and author working on her third customer service book on the topic of service fatigue. Visit www.laurieguest.com.

Is Your Crew Suffering From Service Fatigue?

When dealing with customer service issues creeps into your daily routine, make changes to regain the performance you expect in the field and on the phone

By Laurie Guest

Does it feel like no matter how hard you try to please your customer, it isn't enough? Are you in charge of leading others and the faster you train teams and build energy, the quicker it seems to fade? Are you a business owner feeling hopeless about the never-ending needs of staff and customers, while trying to achieve a profitable bottom line? You're exhausted, right?

This exhaustion is what's called service fatigue, defined as that feeling that keeps you from delivering the excellent customer service your staff and patrons have come to expect. Left unchecked, this weariness can impact your business in many negative ways, from short tempers to lost business.

Let's unpack the what, where, why, and how of service fatigue and get on the path to busting out of it.

What does service fatigue look like?

You know what customer service delivery should look like. Attentive. Proactive. Genuine. Service fatigue is "less than," and it presents in many forms. It's when your customer experience is less than you - or they - expect. It's a lack of energy, elevated stress, constant ambivalence, difficulty concentrating, missed deadlines, frequent mistakes, or safety compliance issues. The trickiest kind of service fatigue to spot is the kind the team thinks they can hide from customers. It's still there, lurking beneath the surface, threatening to bring everyone down in its undertow.

Where does service fatigue come from?

After a stressful few years, various challenges have caused service fatigue levels to skyrocket. But the truth is, service fatigue can strike at any time, and much of it is really nothing new. It's short-tempered customers who escalate to anger quickly. It's trying (and usually failing) to juggle multiple priorities at a time. It's navigating ever-changing business policies. It's responsibilities that outnumber hours in the day. It's one bad attitude draining a team's morale. Service fatigue can come from anywhere and knowing how to identify it is half the battle.

Why does service fatigue matter?

The short answer: It matters because it impacts your bottom line. When service fatigue takes over at your business, everything is at risk. You can play a huge part in lessening that burden for your team and your customers. Make work a welcoming, encouraging environment for your technicians, drivers and office workers so they can give your customers a reason to crow about the

➤ Make work a welcoming, encouraging environment for your technicians, drivers and office workers so they can give your customers a reason to crow about the great experience they had.

great experience they had. By recognizing service fatigue and equipping your team with the tools to bust out of its grip before it's too late, you'll ensure that everyone's experience is that much better.

How do we mitigate the effects of service fatigue?

There are countless ways to bust out of service fatigue, and no two businesses will adopt exactly the same solution. Decades of experience in the customer service industry prove there's no silver bullet to finally overcoming exhaustion. Instead, it takes a combination of strategy, patience, and commitment to bolster your team and get them back on track to deliver the kind of remarkable customer service you and your customers expect.

To get you started, here are a few ways to start busting out of service fatigue today:

Build better boundaries

Professional boundaries can be the single best tool to help bust out of service fatigue, whether you need to put them in place with your boss or you need to ensure your team knows that work/life separation is a good thing. Unless it's imperative to your industry, do you really need to reply to emails at 8 p.m.? Is that gap or hiccup in a process at work really yours to lose sleep over?

We all can and should go above and beyond to deliver customer service excellence. But when you're doing far more than is expected, you may be bringing service fatigue on yourself. Be honest: Are you guilty of your own boundary breakdowns? Are there honest conversations you can have to get those boundaries - and your energy levels - back on track?



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Re-evaluate your boundaries today and find where you can firm them up. You'll soon see what a difference they make in boosting your energy and positive attitude.

Grant yourself rest

Who doesn't love rest? While some have mastered the art of taking breaks, Americans tend to do things fast — and are often multitasking. We like the concept of rest, but the demands on our time often get in the way of our ability to truly take a break.

There are as many as seven types of rest, from physical and emotional to creative and spiritual. The truth is, they're all important, and giving ourselves the space to breathe when things get stressful is imperative. Rest can mean putting down your phone an hour early and reading a book instead, or using your shift break to do a brief silent meditation so you're prepared to head back to work.

When we prioritize rest and start to see it as doing good for ourselves, we are more energized to deliver customer service excellence.

GET MOVING

If you recognize the signs of service fatigue, now is the time to bust out of it. Start by identifying what's causing the fatigue, then set aside time to plan for change, including both big and small steps to reinvigorate your team and return to delivering customer service excellence. When you commit to the change, the hardest part is already over. All it takes from there is digging in to bust out of service fatigue once and for all. **P**

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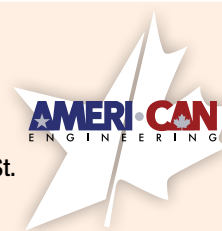
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Trailer Series	Restroom Trailers	ADA, Commercial, Construction, Events, Luxury, Shower, Decon, Laundry
Shell Construction	Steel/Aluminum or Fiberglass	Aluminum and aluminum composite
Weight (lbs)	Varies	3,500 - 21,000
Lengths	8' - 32'	8' - 52'
Fixtures	Varies according to series (interior finish)	Delta Commercial, Toto, Kohler, Dometic, Thetford
Waste Tank Sizes (gal)	Varies according to size	250 - 2,500
Fresh Tank Sizes (gal)	Varies	80, 115, 200, 300, 600
Additional Standard Features	Heavy-duty undercoated steel frame, torsion axles, integral trailer skirting, fastenerless aluminum or Fiberglass exterior, seamless aluminum roof, ducted A/C with heat strip, metered faucets, fold down or roll out step assemblies (according to size), LED lighting, and Chica foot-flush stools	Custom-crafted designs, eight standard interior color options, 10 exterior color options, standard high-efficiency A/C, Amish-crafted wood cabinets and luxury trim, one-piece seamless roof, extra-wide aluminum commercial-entry doors, easy-to-use step assemblies with dual handrails, LED lighting
Frame Construction	Steel	12-inch I-beam with 8-inch tube tongue
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
Flooring	Varies according to series	One-piece commercial vinyl, luxury plank, Rhino Liner
Warranty	3 Years	5-year structural / 2-year comprehensive / component manufacturer
Options	Heat and winterization packages, hands-free faucets, FM/BT/USB/CD stereo, other too numerous to mention	Custom designs and builds, full range of ADA-compliant models, heat, arctic weather, fresh water, generators, lithium-ion batteries, solar panels, awnings



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See ad, page 63

Trailer Series	Portable Restroom, ADA, Shower Trailers, and Handwash Stations	Handicap Accessible (All Configurations), Restroom, Shower, Locker, Decontamination, Emergency and Custom Units	Industrial, Basic, Vegas, Rolls Royce, Shower combo and Hand washing trailers
Shell Construction	Aluminum and composite walls with seamless gel-coat exterior with water shed roof design, color white	.04 thickness aluminum exterior, one-piece aluminum roof with edge overlap	Aluminum and FRP exterior shell
Weight (lbs)	Varies	2,800 - 15,000	8' - 3,000, 12' - 4,200, 16' - 5,000 8', 12', 16'
Lengths	10' - 42'	8' - 53' (semi-trailer)	Moen lavatory and shower fixtures - custom upgrades available
Fixtures	Delta faucets, Chicago domestic and Moen available	Moen lavatory and shower fixtures - custom upgrades available	Fixtures vary depending on the specified model, std faucets and metered faucets are available
Waste Tank Sizes (gal)	100 - 1,300	300+ tanks are configured to trailer size, patented one-piece, roto-mold, S.P., polyethylene waste tanks	160 - 500
Fresh Tank Sizes (gal)	200 - 400	105 - 400	8' - 75, - 12' - 100, 16' - 160
Additional Standard Features	One-piece pitched roof, fold in or pull out steps, LED lights, exterior lights, spare tire, aluminum wheels, hitch, master key, four stabilizing jacks, waste tank, paper towel and soap dispensers, air conditioning, stereo (luxury models only)	A/C with heat strip, heavy-duty aluminum steps, exterior grab handle, all-steel construction, heavy-duty framed doors, poly insulation, scissor jack levelers, battery-powered trailer runaway protection, LED trailer lighting, chip-resistant undercoating and more	12' and up trailers come standard with 2 water pumps pre-wired and plumbed, 1 primary and 1 as a spare. LED lighting inside and out.
Frame Construction	Steel I-beam	Custom-engineered structural steel	All steel frame with steel studded walls
Deck Construction	Non-wood floor decking	3/4-inch marine-grade plywood with waterproof vapor barrier, available fiberglass subfloor	3/4" Advantek subfloor with a composite subfloor option
Floor Joist Specs	Steel tube	Steel tube - 16-inch OC	All steel
Interior Trim	Aluminum angle trim in Commercial and wood trim in Luxury series	White trim standard, aluminum and other options available	Composite, wood trim
Flooring	Commercial grade linoleum or TPO	Custom vinyl flooring, commercial nonslip rubber flooring	Commercial grade vinyl flooring is standard with rubber coin as the std in the industrial models
Warranty	3-year bumper to bumper, 24/7 tech support	5 years on frame, 3 years on everything else	1 year warranty on labor
Options	Remote tank monitoring, GPS tracking, winterization packages, waterless urinals, solar power, interior color upgrades, step lights, stereo for commercial models, upgrades on sinks, cabinets and toilets available and more	We specialize in custom-built trailers and offer unlimited flexibility, call us to discuss your specific needs	Heated cabins, heated waste tanks, stereo, aluminum wheels and limited colors



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Trailer Series	Restroom, Shower, ADA, Command Center, Bunkhouse, Disaster Relief	Restroom Trailers, Shower Trailers, Handicap-Accessible Restroom Trailers, Laundry Trailers, Bunkhouse Trailers	Explorer Contractor II
Shell Construction	Aluminum tubes and fiberglass gel-coat	Composite (gel-coated fiberglass)	Heavy-duty steel shell, formed with a continuous-welded leakproof construction
Weight (lbs)	850 - 14,000	3,000 - 21,000	4,800
Lengths	4' - 40'	8' - 43'	13'
Fixtures	Low flow, high efficiency	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
Waste Tank Sizes (gal)	60 - 1,400	250 - 1,300	240 US all-steel holding tank, hot-dipped galvanized after welding, 2-inch vent stack, 3-inch drain
Fresh Tank Sizes (gal)	40 - 500	105 - 600	200 US supply tank, high-density polyethylene
Additional Standard Features	Patented cartridge safety steps, direct charge battery, sidewinder jacks, A/C with heat strip, no-wood Forever Floor	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
Frame Construction	Structural	12-inch steel I-beam	All-steel 10-inch frame with removable tongue
Deck Construction	Forever Floor	Composite	
Floor Joist Specs	16-inch OC	16-inch OC	All-steel channels
Interior Trim	Anodized aluminum and PVC	Varies by model	Complete white-fiberglass-reinforced plastic anti-graffiti interior wall and ceiling surface
Flooring	H/D seamless Vinyl	One-piece vinyl, 3 flooring options available	Full-length aluminum safety walk floor
Warranty	2 years	3 years	Full manufacturer warranty
Options	Various	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



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Trailer Series	1- to 6-Unit VIP, 1- to 3-Unit Prestige and Diplomat, 2- to 4-Unit Majestic	Restroom Trailers	Restroom, Shower, Bunk, Command Center, ADA, Laundry, and Sink Trailers. Special Event, Disaster Response units
Shell Construction	High-density, 1/2-inch polyethylene plastic Majestic - high-grade smooth fiberglass	Aluminum tube with insulation. Fiberglass interior and exterior on a composite backer	Aluminum and composite walls with seamless gel-coat exterior with water shed roof design, color white
Weight (lbs)	1,400 - 7,000	Varies	Varies
Lengths	11' - 24'	12' - 32'	10' - 29'
Fixtures	Chicago auto-off faucets, Dometic porcelain toilet with Teflon seal	Metered faucets, molded sinks, wall to wall solid surface tops, water saving toilets and urinals. Options available	Delta faucets, Theftford toilets
Waste Tank Sizes (gal)	VIP and Prestige 65, Diplomat 90, Majestic Shared Tanks - Dual 150/Quad 300	400 - 1,100 higher strength, high density polyethylene with multiple sump options	200 - 1,150 1/2-inch polypropylene tank with bottom dump
Fresh Tank Sizes (gal)	VIP and Prestige 40, Diplomat 55, Majestic Shared Tanks - Dual 90/Quad 180	Varies with options available	100 - 300
Additional Standard Features	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	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	Dometic air conditioner, sidewinder jacks, LED exterior DOT lights, LED porch lights
Frame Construction	Steel	E-coated steel with 20k adjustable coupler and 7k tongue jack	Structural steel I-beam
Deck Construction	Steel, aluminum diamond plate	Non-absorbent Ever Floor	Non-wood seamless composite decking
Floor Joist Specs	Steel	E-coated steel tube	16-inch OC
Interior Trim	Polyethylene/proprietary extruded aluminum; Majestic - high-grade smooth fiberglass, brushed aluminum ceilings	Water- and mold-resistant PVC	Standard sizes 10-foot and larger are offered in our Spa Series, Commercial Series and Millennium, our SELFIE Line is offered in white and gray
Flooring	Weatherproof gray carpeting Majestic - planked linoleum composite Pelham Maple	Transit grade options	Steel and composite floor structure with seamless subfloor
Warranty	1-year	Varies based on item, 3-year craftsmanship	3-year limited product warranty
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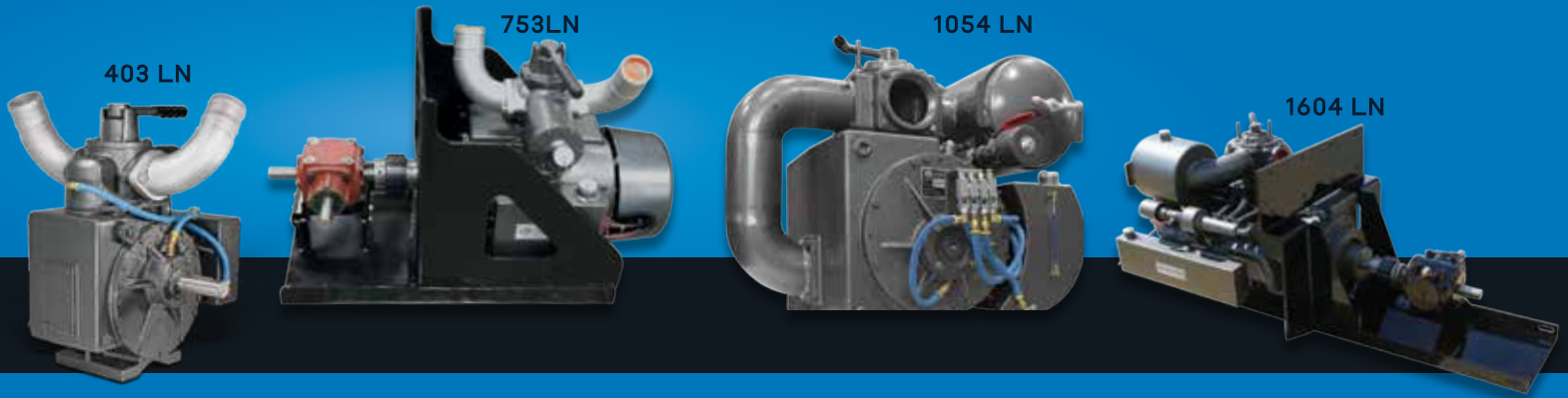
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Jim Anderson, Ph.D.
Contributor

Jim Anderson, Ph.D., is an emeritus professor at the University of Minnesota Department of Soil, Water and Climate. He works with the National Association of Wastewater Technicians and is a recipient of the pumping industry's Ralph Macchio Lifetime Achievement Award. Send Anderson questions about septic system maintenance and operation by email to editor@pumper.com.

What are Single-Pass Media Filters and Where are They Used?

Proper maintenance is critical to ensure the best performance from either single-pass or recirculating filters

By Jim Anderson, Ph.D.

In a previous column, I mentioned that sewage treatment mounds are like a single-pass sand filter. That prompted follow-up questions about the use of media filters and how they relate to mounds. In general, media filters — either single-pass or recirculating — are used for advanced pretreatment of septic tank effluent before final treatment and dispersal. Usually, additional pretreatment is used in areas where there are environmental or health concerns and conventional septic tank to trenches, mounds or at-grades do not provide the desired level of treatment.

Media filters consist of a lined or watertight structure containing media of predetermined specifications. This is where working with the local regulatory authority is important to determine what types of media are accepted, and their required specifications are spelled out. A variety of media are approved and recognized in different locations.

Media can be sand, gravel, foam, plastic, textile or peat. In very localized areas, other media such as ash from coal plants and glass are usable. Many are proprietary products, so it is important to be certified to service and install them.

These filters follow a septic tank, and the effluent is evenly distributed over the media surface. This means most media filters involve the use of a pump and pressure distribution system in the distribution of the effluent. Treatment occurs like it would in mound sand or soil. There is filtration by the media and bacteria and other microorganisms living on the media assist with the treatment.

MEDIA FILTER BENEFITS

It is important that the media is unsaturated, so aerobic microorganisms are a part of the treatment process. Wastewater collects in the bottom of the structure and is delivered by gravity or pump either to a recirculating tank or to the soil treatment and dispersal area.

Single-pass media filters are very effective at removing the organic and total suspended solids from wastewater. They are not good at removing nitrogen from the wastewater. Just like the sand in a mound system, the media in the presence of oxygen (unsaturated) allows for the conversion of organic and ammonium forms of nitrogen to nitrate-nitrogen.

In a mound, the nitrogen is reduced when the effluent infiltrates the original soil surface where there are anaerobic zones. If a similar mechanism is not in place when the single-pass effluent is delivered to the soil treatment

➤ Elevated squirt heights would indicate some orifice plugging in the lines. The distribution laterals should be flushed, snaked with a bottle brush or pressure washed to remove solids.

unit and the desire is to remove nitrogen as a part of treatment, a recirculating media filter should be used.

Although not common, some media filters have a treatment train where effluent flows from the septic tank by gravity to the surface of the media filter. The effluent infiltrates through the media and is delivered out the bottom of the filter by gravity to a drainfield. Certain types of peat filters have this configuration.

For the service provider, some maintenance tasks should be regularly performed on a single-pass sand filters. Some are like maintenance tasks for mound treatment systems. Others are unique to the sand filter itself.

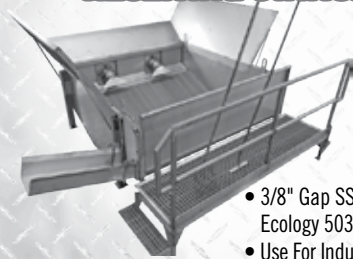
Since the filter is contained in a watertight structure, it is important to avoid adding additional water to the system due to surface water runoff. If it appears surface water is collecting and infiltrating the filter, it should be diverted away from the filter. This is similar to diverting runoff away from the mound or locating the mound where runoff is not a concern. This should be evaluated for components in any system, but is even more critical where the filter is contained in a box or tank.

MONITOR BIOMAT

Check the effluent quality leaving the sand filter. It should be clear with organics and solids removed. If not, something is wrong with the filter. It may be plugging due to excessive organics or solids in the septic tank effluent, or may simply be hydraulically overloaded. The root cause needs to be determined and fixed for the filter to work as intended.

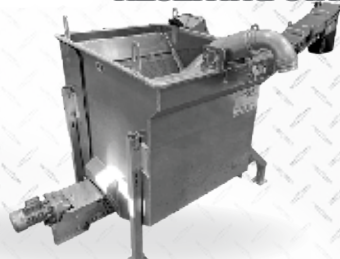
The surface of the sand should be inspected and evaluated for development of any biomat or plugging. If effluent is ponded at the surface due to biomat development, the system is broken. Sand at the surface may

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need to be periodically removed and replaced with new sand. This is true for any other media as well.

Since mounds are covered, it is not possible to evaluate the surface of the sand bed. However, a part of the design is to load the mound to prevent biomat development. Similarly, if effluent ponds in the bed of a mound — determined using inspection ports — the mound is broken and needs to be fixed.

In both mounds and single-pass sand filters, the pressure distribution system should be checked to determine if the head pressure at the end of the lines is consistent with system design. Elevated squirt heights would indicate some orifice plugging in the lines. The distribution laterals should be flushed, snaked with a bottle brush or pressure washed to remove solids. This is usually a regular maintenance task for both single-pass filters and mounds.

In mounds, access to the distribution laterals was not always a part of the

system design and installation. Now most states require the addition of access ports to allow laterals to be cleaned.

When pumps are present for the pressure distribution system, the pump tanks and pumps should be evaluated to make sure they are delivering the desired amount of effluent at the proper pressure.

Hopefully, this gives some insight into where mound systems and single-pass filters have similar operating conditions and similar maintenance concerns. **P**

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Stuart Coleman

Stuart Coleman is executive director and co-founder of WAI.

Hawaii Grapples With Lofty Cesspool Replacement Goals

One new project combines an incinerating toilet and small onsite system for treating kitchen wastewater for residential use

By David Steinkraus

Photos courtesy Wastewater Alternatives & Innovations

Hawaii plans to eliminate cesspools, and although that’s a big task, Wastewater Alternatives & Innovations sees this as a way to jump far ahead in the use of onsite technology. The organization put together a \$30,000 system on the island of Kauai that uses a Cinderella incineration toilet from Norway to handle human waste, a small septic system for kitchen blackwater (graywater), and a mulch basin and seepage pit to treat bathroom graywater.

Stuart Coleman is executive director and co-founder of WAI, and is also a member of the state working group figuring out how to replace all those cesspools. The working group was created by the state Legislature in 2017 when it voted to eliminate all cesspools by 2050.

Pumper talked to Coleman and to Joachim “Joko” Schneider, a native of Germany who came to Hawaii to earn a master’s degree in civil engineering and for a time was WAI’s senior project coordinator. Before starting WAI, Coleman spent 11 years as the Hawaii manager of the Surfrider Foundation, a nonprofit that works to protect the oceans and access to them.



Pumper: How did WAI come into being?

Coleman: After the Legislature created the Cesspool Conversion Working Group, there were no nonprofits out there to help homeowners and counties and the state with the conversion plan. I realized somebody had to start a nonprofit. WAI started in January 2020, and we were quickly besieged by the pandemic. So we had to be really creative and think outside the box. We were able to bring on Joko from the University of Hawaii Sea Grant Program. (Sea grant programs are like the land-grant programs funded by the federal government. Both are charged with studying issues important to the citizens of a state.)

Pumper: How is the cesspool working group doing?

Coleman: I think we’ll wrap up (soon) and issue a report. A lot of people are waiting for that before they make their own plans for upgrading onsite systems. We were the last state to address cesspools, but if we go beyond septic systems and embrace new technology, we can be a national leader.

States that just converted from cesspools to septic along the coasts, especially the East Coast, are having to redo all of those systems and spend so much money, Suffolk County (New York) being one of the big ones. We use Suffolk County as a cautionary tale because their shellfish industry collapsed because of nutrient pollution.

We’re trying to bring in innovative technology because we live on islands, and we’re surrounded by water, and we need to take care of our coastal areas.

Pumper: Surfrider was part of the U.S. Supreme Court case in which the justices ruled that pollution seeping through the ground and into the ocean from wastewater injection wells was a violation of the Clean Water Act. Do you know how much pollution comes from cesspools in Hawaii?

Coleman: It’s calculated to be 53 million gallons of effluent going into our groundwater every day from these cesspools, which is larger than the worst sewage spill we’ve ever had in Hawaii.

◀ An installing crew from Estrella Enterprises levels bedding in a tank excavation at Kapa’a, Hawaii. They used a Takeuchi TB 290 for the digging and a Spectra laser level to check the work.

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▲ An aerial view shows the small project site in Kapa'a, Hawaii, as work begins. A small septic system and mulch basin were both fitted into the front yard. Component outlines are visible on the grass.

Pumper: How did you choose the community of Kapa'a (on Kauai) as the place for this project?

Coleman: Kapa'a has a lot of cesspools, so it's an area that needs to find solutions. And we knew Robert Zelkowsky, a former Surfrider volunteer and leader who lives there and wanted to try something.

Pumper: So the Cinderella toilet reduces the solids to ash, but what happens to the liquid waste?

Coleman: Liquids are evaporated and go up the exhaust stack. That's the current downside. Even if people want to go No. 1, the toilet must incinerate that liquid and use electricity. We're working with Cinderella to save electricity, maybe turn the urine into fertilizer.

Pumper: Did you consider a composting toilet to eliminate the electricity use?

Coleman: We are staying away from composting toilets because the Department of Health doesn't like people dealing with their own waste. Composting toilets are great for some locations. But in suburban dwellings it's too big a risk and too hard to monitor.

The county innovation grant that paid for this project also paid for us to install a Cinderella at a remote facility for the state Division of Forestry and Wildlife where there has been a composting toilet for years. For years, workers had to shovel out all of the waste and put it in metal drums. Then a helicopter would pick it up and fly it off for treatment, and that helicopter is minimum \$5,000 per ride. Even to get the new toilet in there we'll have to use a helicopter. But with the new incineration toilet, they won't have to do that kind of work anymore.

Pumper: How much power does the Cinderella toilet use?

Schneider: It uses about 1 to 2 kilowatt-hours per incineration. If you have two people using it close to each other, their waste will be taken care of by the same incineration. If you have only one person going per hour, that's going to be only one incineration.

Coleman: We're saving the potable water, which is the main thing, which I think is going to become more of an issue going forward.

Pumper: Why is the wastewater from kitchen and bath separate?

Schneider: In Hawaii kitchen wastewater is considered blackwater. In Europe some countries consider it heavy graywater.



▲ The Cinderella toilet after installation at the house in Kapa'a, Hawaii. The toilet uses electricity to reduce solid waste to ash and evaporates urine. Vapor is vented through the exhaust stack.

Pumper: How does graywater treatment work?

Schneider: There's a 1,000-gallon plastic tank taking the kitchen sink and dishwasher wastewater. We're hoping to move to a smaller tank for future installations. Water goes into a drainfield about 12 1/2 feet long and 6 feet wide with traffic-rated Infiltrator chambers.

The mulch basin is about 10 by 25 feet and 3 to 4 feet deep, and filled with wood chips leftover from landscaping. There are some plants on top of it, and they'll use some water, but most of the water is intended to filter down to the aquifer. The seepage pit, a retrofitted cesspool, is only for overflow.

Coleman: Originally, we estimated needing a 200-gallon tank for the kitchen wastewater, and even that was oversized. But we also needed a tank certified by IAPMO (International Association of Plumbing & Mechanical Officials), and the smallest we could find was 1,000 gallons.

The size of the tank and overflow seepage pit means the system has a lot of redundancy, but it was still a success. The Zelkovskys are pleased with it. They'll be saving lots of water and helping recharge the aquifer. And the water that does go out will be much, much cleaner than before.

Pumper: Are you looking at other projects?

Coleman: We want to do more graywater recycling. The more we can recycle, the better.

We have designs with Cinderella units inside homes and then three different nitrogen-reducing leach field designs [for graywater]. We're [also] working with three companies on decentralized treatment for smaller communities. On those, we hope to be one of the first projects to do 100% recycling of liquids and solids.

Schneider: I think it's important to note that the Kapa'a combination system is really exciting, but it's not going to work for every house.

Coleman: Yeah, people are constantly asking, "What is the solution?" There's not one solution. There are so many factors to consider on each site that we need to have as many options as possible. **P**

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Portable Sanitation and Special Events

By Craig Mandli

DECALS/MAGNETS/SIGNAGE



Allied Graphics decals

Decals from Allied Graphics are designed for the portable restroom industry to stick and stay on units and 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 are adhered using an upgraded compound adhesive composed of multiple elements for a high adhesion rating that surpasses the company's previous line of adhesive applied vinyl. The decals have an increased coat weight to provide a wider range of conformability to textured surfaces. The vinyl has gone through comprehensive testing over the last year to ensure optimized adhesion for decal longevity, according to the maker. 800-829-3021; www.roeda.com



HOLDING TANK TREATMENT



Walex Products Commando Black Holding Tank Cleaner

Black holding tanks can be difficult to clean and sanitize, and cleaning these tanks manually is an unpleasant task. Commando Black Holding Tank Cleaner from Walex Products is a safe and natural cleaning product for portable restroom trailer holding tanks. The eco-friendly product disperses billions

of healthy bacteria to break down waste buildup that causes odors. The portion-controlled packs are formaldehyde-free, safe for septic systems and dissolvable. Users drop a few packs into the tank, fill with water, and in 24 hours the tank will be clean and sanitized, according to the maker. 910-371-2242; www.walex.com



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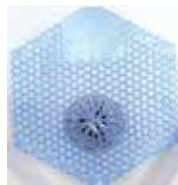
LIGHTING

Solar LED Innovations Solar Pod Lights



Solar Pod Lights from Solar LED Innovations are available in three versions that provide 30, 50 and 65 lumens to fully illuminate portable restrooms for special events and nighttime use. Low-profile units install in minutes and double lock securely through the roof. Automatic darkness sensors and motion sensors control lighting as well as a manual on/off option. Up to 30 hours of light are provided from a single day charge in the sun. 484-639-4833; www.solargoose.com

ODOR CONTROL PRODUCTS



Century Chemical Wave 3D

Wave 3D urinal screens from Century Chemical are designed for techs to clean urinals quickly and easily without worrying about splashes or odors. The screens keep the restroom smelling fresh for 30 days.

Their design means installation errors can be avoided and multiple mounting options are possible without compromising splash reduction performance. There is a greater degree of openness due to its increased height. Featuring two long posts on either side and a hexagonal lattice design, the fence is splash-free and easy to clean. The screens come in 60 per case and are available in many fragrances. Century can also match any liquid to the fragrance of the screens. Individual weekly and monthly tabs are meant to help the operator know when it's time to replace the screen. 800-348-3505; www.centurychemical.com

LunarGlo LunarVent

LunarVent solar ventilation fans from LunarGlo utilize the same high-efficiency solar cells used in LunarGlo solar lighting units. Its ventilation fan can move air at more than 40 cfm during daylight hours, providing a complete restroom air exchange in less than two minutes on average. When mounted to a standard 4-inch vent stack and used in conjunction with a scented wafer placed near the fresh air inlet, the fan rapidly removes unpleasant odors, helping create a safer, more hygienic atmosphere in portable restrooms. 574-294-2624; www.lunarglo.com



Surco Portable Sanitation Products Fresh Straps

Fresh Straps air fresheners from Surco Portable Sanitation Products are scented polymer belted material that wraps around the vent stack and cinches like a zip tie to discourage theft. They are tinted with a gray dye to provide camouflage on most vent stacks. They provide fragrance to eliminate odors for several months during the summer, according to the maker. They are waterproof, available in three fragrances and come with 72 individually wrapped straps per case. 412-789-8683; www.surco.com



PORTABLE RESTROOMS

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 handgrips for easy moving. **800-345-3303; www.jjportable.com**



PolyJohn Comfort XLT

Improved interior components of the **Comfort XLT** from **PolyJohn** include a large static tank that holds 60 gallons or a flushing tank that holds 45 gallons of waste, making the unit suitable for private and public events, formal or informal, weddings, concerts, fairs, festivals or parties where guests seek a little more room. The XLT has a larger tank than previous models, and the option of a hand-washing sink. **800-292-1305; www.polyjohn.com**

Sansom Industries Zenith

The **Zenith** portable restroom from **Sansom Industries** has an 80-gallon holding tank with deep sump, blow-molded construction, a roomy interior with ample headroom, smooth interior surfaces for easy cleaning, stainless steel fasteners, a three-roll paper holder and attractive aesthetics, according to the manufacturer. Many custom options are available. **844-972-6766; www.sansomindustries.com**



Satellite Industries Sanitrax

Sanitrax restrooms from **Satellite Industries** give a sleek appearance of fiberglass and galvanized steel, and provides a vacuum flush for an in-home experience. The units use little water to remove solid waste,

carrying it up to 600 feet away from the units. Once the unit is set, a technician can monitor the systems remotely via an app. If issues arise, they will know immediately. Collapsible galvanized steel frame modules are designed for efficient transportation. One flatbed will transport 78 units and set up takes a few hours. **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**



PORTABLE RESTROOM MOVER

Deal Assoc. Super Mongo Mover

The **Super Mongo Mover** hand truck from **Deal Assoc.** easily tips back and carries portable restrooms and full-size ADA handicap units. The restroom is picked up from the bottom like a forklift so there is no stress on the unit. Its forks are removable and do not fold. This allows the unit to stand upright without falling over, making it easier to push under a restroom. There are no hinges at ground level to get jammed with rocks and dirt. Everything that touches the upper restroom is anodized aluminum to prevent rust stains on the restrooms. It is available with a variety of wheel options. **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 smaller septic receiving, portable restroom service trucks, grease or oil recycling. It includes 8 square feet of screening area. Two options of the lightweight screen are available, with one capable of fitting directly over a manhole or

underground storage tank/sump with an 18-inch center ring and a 30-inch mounting plate, with adjustable support legs. Or one standalone unit is available with a 6-inch rear cam outlet and adjustable support legs. Both units are available with an optional sealed and lockable hinged cover. The system allows for gravity offload of 400 gpm through a 4-inch inlet cam with a fan spreader which deflects waste down onto the screen. The dual-screen design is non-mechanical, using gravity to separate trash from the waste stream. The standard unit features all aluminum construction with stainless steel 3/8-inch gapped bar screens on opposing angles. **208-790-8770; www.screencosystems.com**

PORTABLE SINK

Armal Wave Hand Wash

The **Wave Hand Wash** unit from **Armal** has a slim profile, recessed foot pump and a keyed tamper-proof freshwater cap. The compact gray-colored unit is easily installed inside portable restrooms and has a 7.5-gallon freshwater capacity. **866-873-7796; www.armal.biz**



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RESTROOM TRAILERS

A Restroom Trailer Company (ART Co.) 1203-W-W

The **1203-W-W** restroom trailer from **A Restroom Trailer Company (ART Co.)** is designed for fast and easy setup with a sleek, streamlined appearance, according to the maker. The 12-by-8-foot three-station unit is equipped with fold-down steps and pipe-mount leveling jacks. It is available in seven interior finishes and exterior color combinations to match existing fleet colors. It includes a 460-gallon waste tank, 105-gallon freshwater tank, a heavy-duty steel frame, integral trailer skirting, a 2 5/16-inch trailer hitch, heavy-duty tongue jack, custom cabinetry and countertops, LED lighting and ducted heat and air conditioning. Upgrade options include a stereo system, winterization packages and 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 Pro Series

The **Pro Series** from **Lang Specialty Trailers** is a robust and versatile trailer, according to the maker, made of tough gel-coated fiberglass composite panels. It offers improved ground

clearance for difficult delivery locations, and a weld-on drop jack system that adds to the trailer ground clearance. It has a large, user-friendly mechanical room designed so the owner/operator can work comfortably inside. The stair and railing system can be deployed quickly with no additional tools. Custom extruded powder-coated channels provide easy access to all electrical and plumbing for simple maintenance of all components. **724-972-6590; www.langrestroomtrailers.com**

LuxLav multi-stall trailers

Multi-stall restroom trailers from **LuxLav** are equipped with running water, electricity, flushing toilets, holding tanks, and air-conditioning and heat. Units range from two to 10 stalls and are designed to provide a suitable option for any event or job site. The trailer can be delivered, set up and ready to operate in minutes, whether on or off the power grid. **855-589-5281; www.luxurylav.com**



NuConcepts-Very Impressive Portables Majestic

The **Majestic** solar-powered and self-contained restroom trailer from **NuConcepts-Very Impressive Portables** is available in two- or four-unit configurations. 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**

Optimus Industries OI-3

The **OI-3** restroom trailer from **Optimus Industries** sets up quickly utilizing different stabilizer options, and has easy set-up steps stored inside wide entry doors with large grab handles. It has a durable, spacious and easy-to-clean interior with fiberglass walls, solid-surface countertops and composite trim and cabinets. The unit is outfitted with quality commercial fixtures for years of trouble-free operation, according to the maker. The interior features are finished with transit grade flooring for durability. The exterior features seamless fiberglass with a composite backer that will not rot, warp or degrade and is easy to repair. It also includes vacant/occupied indicators. It sits on a 7,000-pound torsion axle with 16-inch aluminum wheels and radial tires. **574-226-0691; www.oirestrooms.com**



Rich Specialty Trailers Neptune Anti-Virus

The **Neptune Anti-Virus** restroom trailer from **Rich Specialty Trailers** is built with interior walls designed to kill microbes known to carry viruses. The material is imported from Europe, where it was tested and used in medical applications and proven to be effective at killing viruses, including COVID-19, according to the maker. The anti-microbial forms a colorless and odorless polymer that bonds to treated

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interior surfaces, forming a protective barrier. The trailer is built using composite materials on the walls, ceiling and floor, making the trailer water-resistant for easier maintenance and cleaning. Men's and women's restrooms come standard, along with three hand-wash sinks on the exterior rear of the trailer, allowing use without entering the restrooms. The sinks use self-closing faucets to save water, and dividers between sinks can also be ordered providing another barrier to reduce the risk of spreading infection. **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 steel for structural strength. Its workstation is designed for the portable restroom 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 more than 60 cubic feet of storage space for supplies. The unit can be modified to carry up to six restrooms. The unit pairs well 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, internally 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 and internal 250-gallon freshwater compartment for even weight distribution, 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 mid-size **PortaLogix** service truck accommodates waste, water and up to six standard-size restrooms. It utilizes a transverse tank that doubles as the truck bed. It can carry 800 gallons of wastewater, 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 two- and four-wheel drive. The service trucks can be driven without a CDL. **585-484-7009; www.portalogix.com**

Progress Tank PRO Service Truck

PRO Service Trucks from **Progress Tank** are available with stainless steel and aluminum tank options, with capacities ranging from 800 to 2,500 gallons, and set up for dual service with two-compartment tanks for fresh and wastewater. The tanks are upfitted with two 3-inch inlet pipes and two 2-inch stainless steel gravity discharge pipes, and also include two 5-inch sight glasses to track capacity. Options include reels to store suction hoses, jetter systems, winterizing kits for water pumps, heated inlet valves and extra toolboxes. They include a bumper/carrier to carry two portable restrooms. They also come standard with a trailer hitch receiver for trailering more restrooms. **800-467-5600; www.progresstank.com**



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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**

SHOWER TRAILERS

Ameri-Can Engineering shower trailers

Shower trailers from **Ameri-Can Engineering** are available in 15 models, including handicapped accessible and ADA compliant. 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**



JAG Mobile Solutions Smart Shower

The **Smart Shower** from **JAG Mobile Solutions** is a compact eight-stall shower trailer. A 9,900-pound GVWR provides mobilization safety. A Class A commercial

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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**



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 24 restrooms and come with or without sides. They are built with heavy-duty steel and come standard with torsion axles, electric brakes, flush-mounted lights, and 10- or 13-inch wheels and tires. Custom upgrades include gates, leaf-spring axles, fold-down ramps, LED lights and choice of hitch. **877-445-5511; www.lwiinc.com**



McKee Technologies - Explorer Trailers Transporter

The **Transporter** from **McKee Technologies - Explorer Trailers** has easy-to-adjust carrier slats that box in any size restroom skid. Multiple-size skids can be configured securely in the same load, providing safe, flexible transportation for many styles of portable restrooms. Models range from 8 to 48 feet, accommodating up to 24 units. All include fully independent suspension axles designed to eliminate side-to-side shock transfer. An optional front wind deflector protects units from road spray, stones and wind loading. Hot-dip galvanizing is available for corrosion protection. **866-457-5425; www.explorertrailers.com P**



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Wastewater Professionals Need to Know Their Worth

New Mexico pumper Mike Krepfl:
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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 Professional Onsite Wastewater Reuse Association of New Mexico.**

Name and title or job description: Mike Krepfl, owner and president

Business name and location: AAA Pumping, Albuquerque, New Mexico

Services we offer: About 40% of our business is septic work. We pump septic tanks, grease traps and sand traps and do inspections for real estate transactions. The other 60% of our work is portable restroom rentals. Today we run about 30 trucks between the two divisions.

Age: 49

Years in the industry: I’m a third-generation owner of the company. My grandfather Carl Krepfl started the business out of his house in the 1950s, then my father Tip Krepfl took over. So I’ve been around it my whole life but didn’t go full time until 1996 after I graduated from New Mexico State University with a degree in business administration.

Association involvement: We’ve been members of the Professional Onsite Wastewater Reuse Association of New Mexico for about 20 years. Most of what I get out of it is the education and training that’s offered.

Biggest issue facing your association right now: The biggest challenge for us at the moment is increasing our membership. We need higher enrollment and getting more people onboard.

Our crew includes: My wife Shelley is our office manager. Our general manager is Raul Rivera. The three office dispatchers are Darla Romero, Amber Babecka and Candy Matthews. We have eight technicians on the septic side and about the same number for portable restrooms.

Typical day on the job: I wear many hats. I work with the managers and staff to ensure we’re operating efficiently. I’m also involved in the larger account sales calls. And for the last two years I’ve been doing a lot of recruiting, trying to find different ways of attracting qualified employees. It’s been tough. We’re doing everything we can think of — advertising, offering bonuses, different forms of compensation, providing newer equipment.

The job I’ll never forget: We had a project in northern New



From left: Raul Rivera, general manager; Darla Romero, portable restroom dispatcher; Candy Matthews, grease dispatcher; Amber Babecka, septic and sand dispatcher; Shelley Krepfl, office manager; Mike Krepfl, president.

Mexico pumping a lagoon in a mine. It was very high elevation, up in the mountains. The trucks were a long distance away from the lagoon. It was very challenging. We had to use lots of hose and secondary pumps that were stationed periodically after so many feet of hose. We had to find a flat area above the lagoon and then run hoses down the hill. It was a lot of gallons. It took several weeks and is probably the most difficult pumping job we’ve ever done.

My favorite piece of equipment: We have a 1980 Mack dump truck that my dad used to drive before he retired in 2006. It has the original engine and transmission. We don’t use it daily but it’s still operational. We use it to haul dirt. I love that truck because of the value we got out of it compared to the newer trucks that are much more expensive and problematic and unreliable.

Most challenging site I’ve worked on: We used to install drainfields, some of which were on bedrock sites that would require blasting. Typically those were mountain sites with really bad soil or rock. We didn’t do the blasting ourselves but I used to wonder if the house was going to crack in half. After the blasting was done, we’d have to remove some of the rock and put sand in. Those projects were a nightmare.

Oops, I wish I could take this one back: Pumping car washes,

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sand traps or grease traps that haven't been serviced regularly is always a bad situation. We show up and it's just a solid tank of dirt or concrete grease. We've gotten to where we won't even service those sites unless the owner has a contract with us to maintain it on a regular basis. Any time I do take one of those jobs for somebody for some reason it's usually a nightmare and I end up regretting it.

The craziest question I've been asked by a customer: We had a woman call this past year wondering if we could pump out the water in her hot tub because her husband had died in it. We passed on that job.

If I could change one industry regulation, it would be: I think septic inspections should be done by a true impartial third party, not the company who's going to do the repair work. In my mind, there's a conflict of interest there.

Best piece of small business advice I've heard: The way we operate is we try to treat every customer like we'd want to be treated.

If I wasn't working in the wastewater industry, I would: I'm interested in real estate and have been doing a little bit of flipping houses and apartment buildings — buying older units, fixing them up and selling them, particularly older apartment complexes. It's been pretty interesting.

Crystal ball time — This is my outlook for the wastewater industry: The people in our industry need to realize that we are a very essential service. I think it's starting to happen. We are a critical part of day-to-day life for people. **P**

- Compiled by Betty Dageforde

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PRODUCT NEWS



in the
SPOTLIGHT
By Tim Dobbins

HYDROVAC TRUCK DESIGNED TO MEET WEIGHT RESTRICTIONS

The VHX Series of hydrovac trucks from GapVax fits the mold for businesses eyeing a solution for all-around hydroexcavation projects in a platform that conforms to bridge weight regulations.

The trucks offer a 15,000-pound payload with an overall height of 12 feet 2 inches. "Initially, we targeted regions needing a wet or dry vacuum excavation truck that also required legal travel with a payload of 15,000 pounds," says Matt Hughes, senior vice president of sales at GapVax. "Now it has expanded into projects that are restricted by tight access or low overhead clearance."

GapVax's strategy was to tackle weight limit concerns while delivering as many features as possible. The idea was to shave weight, but not performance. "First, the concept was modeled with a worst-case scenario in terms of weight, meaning we started with all the must-haves," Hughes says.

Those essentials include a high-powered blower, a filtration system, full-opening tailgate, dipping boom and low overhead clearance. "Then we added options to the model like an air compressor, 400,000 Btu burner, heated pump box and extreme cold-weather provisions," Hughes says.

From there, GapVax figured out how to get everything on the truck they wanted, and still make weight. They say the advantage to starting with a worst-case weight scenario is that each option removed from the layout enables additional payload capacity for customers who don't need some available options.

Users will find wet or dry operation, a cyclone and baghouse filtration system, an 8-inch boom hose, and a blower capable of pushing 4,000 cfm and 28 inches Hg. For the water system, the VHX carries 750 gallons between two, 375-gallon poly tanks and uses a hydraulically driven triplex pump to move water at 13 gpm and 3,000 psi. The full-tilting debris body provides quick unloading and simple cleanout, getting you in and out of the dumpsite fast.

Other options include a stainless steel debris body, onboard scale, liquid level indicator, various lighting choices, remote wireless controls and various tube racks, toolboxes and storage.

"The initial feedback has been excellent," Hughes says. "Operators like the 'big-truck' performance combined with the maneuverability of compact units. Owners love that they don't get overweight tickets anymore." **814-539-3617; www.gapvax.com P**



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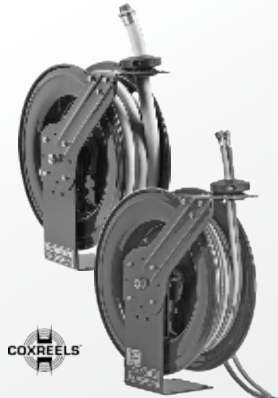
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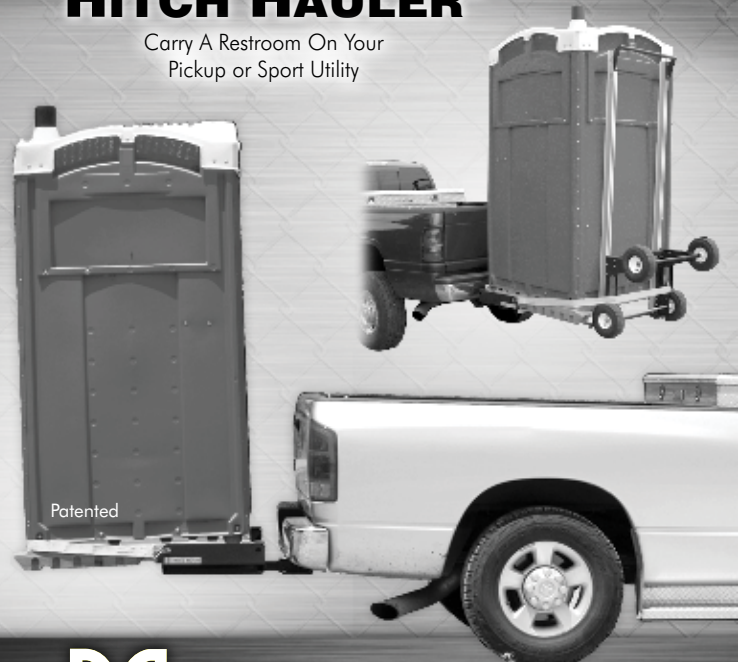


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Complaints Arise From Proposed Stricter Onsite Regulations in Massachusetts

By David Steinkraus

Proposed changes to the Massachusetts Title 5 onsite rules were met with opposition from the public and local government officials over the timeline and cost of the proposed rules that would designate nitrogen-sensitive areas.

Towns in targeted areas would have to upgrade to nitrogen-reducing systems within five years after the state Department of Environmental Protection regulation is finalized. Towns would have to use the best available technology, but that could include nontraditional technologies such as permeable reactive barriers filled with wood chips to remove nitrogen as water flows through. Towns may also be able to apply for watershed permits, which would extend the deadline for upgrades to 20 years.

Local officials and some residents said they were dismayed at the possibility of imposing so much cost on people within such a short time.

Two state legislators, Rep. Chris Markey, D-Dartmouth, and Sen. Mark Montigny, D-New Bedford, wrote a letter asking the department to slow implementation of the proposed rules, and they questioned the evidence behind it. In Dartmouth, they wrote, only 29% of total nitrogen in the Slocum River is from onsite systems, while in the Westport River onsite contributes only 34%. The rest is from private industry such as composting, they wrote.



Rules are changing for inspection reports and payment in Mashpee, Massachusetts, following a vote by the board of health. Both must now be submitted to the department within 30 days after inspections, reported *The Enterprise* of Falmouth, Massachusetts. Homeowners must pay for the town's review of their inspection, and if payment is not submitted within 30 days, there will be no review, and the inspection will have to be repeated.

The town will also no longer accept hand-drawn sketches from installers. They must now submit as-built diagrams.

Vermont

The state provided another round of funding to low- and moderate-income residents who need to repair or replace onsite systems.

Eligible residents were required to have a failed or inadequate onsite wastewater system, own and live in a single-family residence or a multifamily building with up to four units, and have an annual household income less than \$80,835.

Money for the work came from the American Rescue Plan Act and will pay for about 150 to 200 projects. The \$5 million in first-round funding is now being distributed to more than 180 homeowners.

More information is available on the state website: www.anr.vermont.gov/content/applications-now-open-homeowners-fix-failed-wells-and-septic-systems.

Maryland

The state has approved \$2.13 million from the Bay Restoration Fund so counties can upgrade onsite wastewater systems to reduce nitrogen discharges. Nitrogen is one of the more serious pollutants in Chesapeake Bay, and the funding will affect 18 counties, news reports said.

Washington State

The Asotin County Public Health District is considering new rules for onsite systems. Under a proposal, lots less than 12,500 square feet will have to meet specific standards before a septic system is allowed. Also, systems will have to be inspected when a property is sold. The intention is to add teeth to rules, Colling Jurries, the environmental health specialist for the district, told the *Lewiston Tribune*, of Lewiston, Idaho.

About 60% of the county's population uses onsite systems, and homeowners will be encouraged to keep records of drainfield maps with the health district.

Mississippi

Haulers may see a significant increase in fees to dump septage at the wastewater treatment plant in McComb, Mississippi. City Administrator David Myers is proposing \$40 per thousand gallons instead of the current \$7.

Myers said he thought about increasing the cost after learning a hauler was driving the 81 miles from Richland to dump at the McComb plant.

"The McComb wastewater treatment plant is only one of the few that allows this type of dumping so that's to our advantage," he said, according to the *Enterprise-Journal* of McComb. "That's the reason why they were coming is we had some of the lowest prices in this area to dump septic and other stuff."

Myers said the city isn't making much money because the fee is so low. "I think that now we're going to generate a lot more," he said. "We're doing a service for these folks allowing them to come and dump in our plant."

Michigan

The owner of a septage hauling company was sentenced to 6 months in jail and fined \$755 for illegally applying septage to farm fields. In December 2020, the Saginaw County Health Department received reports of trucks emptying septage onto fields, said a story from WNEP News in Saginaw. The company owner said the trucks were spreading water from underground tanks, but health inspectors found septage waste where the trucks had been. In April 2021 the owner was charged with a misdemeanor count of land applying septic waste. In September 2022 he pleaded guilty.

The health department said the company had been investigated for the same issue in May 2020. The news report did not name the hauling company or the owner. **P**

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Mike Thornton added an Axalta metallic pearl black 2021 sleeper cab Peterbilt 389 built out by Pik Rite with a 5,000-gallon waste/200-gallon freshwater steel tank and National Vacuum Equipment 4310 blower. A 565 hp Cummins engine tied to an Allison automatic transmission powers the truck. Martin's Peterbilt chassis upgrades include a drop bumper, extra cab and bunk lights. Features include a custom Crust Buster locker behind the sleeper, heated valve jackets, color-matching safety beacons, LED marker and strobe lights. The truck has the Prestige interior package, with high-back leather seating with air-ride, keyless entry, leather steering wheel, woodgrain dash panel, full gauges factory wired for exterior switches, Bluetooth and Satellite Navigation. Graphics are from Stacy Charles at White Horse Graphics. The truck was built for emergency 24/7 pumping and grease trap service. Leon Florence and Jordan Honeycutt are the drivers. **P**

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INDUSTRY NEWS

Engine & Accessory named Jurop North American distributor and OEM partner

Engine & Accessory has been named Jurop's new North American distribution and OEM partner. The partnership will produce Jurop blowers, vane pumps, packaging, rebuild kits, pump components, four-way valves, rear-door clamps and many other products. In a release, Craig Smith, CEO of Engine & Accessory said, "We are thrilled to be working with Jurop and to offer our customers access to high-quality blowers, vacuum pumps and parts. This partnership is a great opportunity to expand our product offerings and better serve our customers' needs."

Advanced Drainage Systems announces Roy Moore retirement

Advanced Drainage Systems announced that Executive Vice President Roy Moore will retire May 31. As part of the company's succession plan, Craig Taylor will succeed Moore. Taylor currently serves as the vice president of finance at the company's subsidiary, Infiltrator Water Technologies. Moore joined ADS with the acquisition of Infiltrator in 2019. Moore joined Infiltrator in 1987 and served as CEO from 2005 until the company was acquired by ADS in 2019. During his tenure, Moore led multiple functions, including manufacturing, sales, marketing, engineering, research and development, and government affairs. **P**

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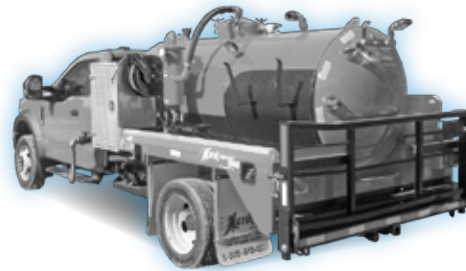
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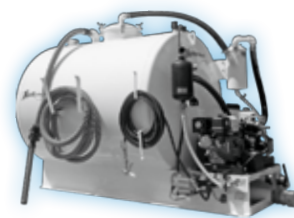
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Brand new Dodge 5500's, Ford F550's, and International CV's customizable from the factory. Built out with custom tank options and your choice of pump to exactly fit the needs of your portable toilet company. CALL JONATHAN @ 501-388-9565 or EMAIL ME @ Jonathan.Ironvac@gmail.com to get the **best prices, shortest lead times, and most customization in the industry. (P04)**



2020 Ram 5500 with 63,000 miles. Tank size-900/300 built and installed by Lane's Vacuum Tank Inc. in Benton, KY. Asking \$90,000. Contact info. **409-284-0403 (P04)**

2024 Peterbilt 536 cab & chassis with 2,150 gallon, Two compartment (1,600 waste - 550 water) with An NVE B250 blower package, a DC10 wash down Pump, dual service, strobe package, toilet carrier, And backup camera (coming in April) Stock# 14095 **www.VacuumSalesInc.com (888) VAC-UNIT (822-8648). (PBM)**

2001 Keith Huber 2024 Peterbilt 536 cab & chassis with 2,150 gallon, Two compartment (1,600 waste - 550 water) with An NVE B250 blower package, a DC10 wash down Pump, dual service, strobe package, toilet carrier, And backup camera (coming in April) Stock# 14095 **www.VacuumSalesInc.com (888) VAC-UNIT (822-8648). (PBM)**

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 #14101. **www.VacuumSalesInc.com (888) VAC-UNIT (822-8648). (PBM)**

POSITIONS AVAILABLE

Septic Installers and Pumpers needed! ASAP! In sunny Orlando, FL. Experience required (3+ years). Insurable CDL required for Pumper. Relocation reimbursement available. Experienced, professional team to work with, newer equipment. Professionals only. Lapiservices.com Call Chris. 321-436-0150. (P05)

PUMPS

VSI has the following good used and rebuilt Pumps in stock: (3) NVE 866, Jurup PN155D, Jurup LC420, Fruitland RCF500RU, Masport HXL400WV; HXL75WV www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)

Buy & Sell all makes and models, new & used vacuum pumps, blowers, high-pressure water pumps, new and good used replacement parts. Buy discounted pumps online 24/7. Call us for a current inventory list. www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)

PUMPS VACUUM

Tank size 5000 GAL 2013 through 2018. Make any price 50 thru 100. Used and in good condition. Contact Frank Foster 917-584-5495 (P04)

RENTAL EQUIPMENT

2023 Polar Vacuum Trailer: Stainless steel 6,000 gallon, DOT certified double conical with air-ride suspension. Aluminum wheels all positions, full hose trays, OSHA walkways and railings. Vacuum pump option either hydraulic or self-contained. KLM Rentals Inc. 617-909-9044. (PBM)

Liquid vacs, wet/dry industrial vacs, combination jetter/vacs, vacuum street sweeper & catch basin cleaner, truck & trailer mounted jettors. All available for daily, weekly, monthly, and yearly rentals. VSI Rentals, LLC, (888)VAC-UNIT (822-8648) www.vsirentalsllc.com. (PBM)

SEPTIC TRUCKS



2000 Ford F650, 3126 Cat, 103k miles, 7spd trans, AC, 26k gvw, under cdl, New 2000 gal tank, NVE 607 vac pump, stainless steel hose trays, paint, tires and alum wheels. Very clean low mile chassis with all new equipment. Finance and delivery available, **\$55,000.00 Hull's Truck Bodies LLC 740-820-5338 (P04)**

1999 RD688s Mack with a Pik-Rite 5000-gallon tank NVE 506 pump truck has 600k doesn't burn or leak a drop of oil runs every day \$50,000 only selling because I have two tri axles and I want a 2500 gallon truck 860-662-0728 (P04)

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1999 Freightliner, 300 h.p Cat, 444k miles, 8LL trans, AC, cruise, Newer 3300 gal tank and NVE 360 vac pump. Very well maintained truck. Used daily. Delivery and finance available, **\$35,000.00 Hull's Truck Bodies LLC 740-820-5338 (P04)**



2006 Sterling, Mercedes Benz powered, 10 speed Eaton Fuller transmission only 61,217 miles. Imperial tank with hydraulic lift and full rear open door. 3700 waste and 300 fresh water for jetter / washdown with CAT pump. Has NVE 743 Blower Pump which is great for pumping car washes, catch basins and hydro excavating. Well maintained and always parked indoors. **\$90,000 920-585-9924 (P05)**



2010 international 4300 with a 2500 gallon tank just hit 200,000 miles we run it every day had it for three years absolutely no problems. It does have the max force engine with an Allison transmission automatic, everything works good as it should. Pump is a PN84 was our first truck we bought when we started the business I've upgraded to bigger trucks which is the reason for selling. **40K obo located in Wichita Kansas. 316-641-1200 (P04)**



2018 Diesel Ford F550 with a 1200 gallon aluminum tank. Has a challenger NVE 304 pump. Truck runs great, no issues at all. **My name is Mike, contact me at 818-373-9282. (P04)**



Selling this very clean well maintained no rust 2006 international 4300, BELOW CDL vacuum truck, 1,600 gallon tank with stinger hose so you can also use it for porta-potties, rack on back to haul 2 potties, newer masport air-cooled vac pump, newer DT 466 diesel engine very low miles, Allison automatic transmission, brand new tires all around. Ready to work. **Call Don..608 558 0870 \$72,000 dollars O.B.O. (P04)**



2002 Mack, 400 h.p Mack engine, 8LL trans, AC, cruise, Newer 5000 gal tank and NVE vac pump, 4" airflow, new paint on tank. Very solid great running truck. Finance and delivery available, **\$29,000.00 Hulls Truck Bodies LLC 740-820-5338 (P04)**



2006 Ford 650, C7 Cat, 311k, under-CDL, Allison auto, AC, cruise, new 2000 gal tank, stainless hometrays, and Moro PM70 vac pump, paint, tires and alum wheels. Finance and delivery available, **\$65,000.00 Hull's Truck Bodies LLC 740-820-5338 (P04)**



97 Freightliner, 8.3 Cummins, 26k miles, 8LL trans, AC, 3500 gal tank and Moro vac pump. Very solid great running truck. Finance and delivery available, **\$35,000.00 Hull's Truck Bodies LLC 740-820-5338 (P04)**



2016 Hino 338, J08E diesel, 94k miles, auto trans, 33k gvw, AC, cruise, new 2500 gal tank, stainless hometrays, Jurup R260 vac pump, paint and alum wheels. Very clean great running truck, all new equipment. Finance and delivery available, **\$79,000.00 Hull's Truck Bodies LLC 740-820-5338 (P04)**



2019 Isuzu NRR, 5.2 liter diesel, 110k, auto, AC, cruise, 900/350, alum, Progress tank, NVE vac pump, Leeson water pump, 200' hose reel, 2 pot rack, new tires, very clean great runner. Finance and delivery available, **\$55,000.00 740-820-5338 (P04)**



2011 KW T370 195,000 miles 350hp paccar engine. Tank and pump was installed by National Truck in Florida in 2020. 560cfm blower pump. This truck does dump also. New tires and brake with in the past 8 months. **Runs and drives perfectly Asking \$90,000 (P04)**



2024 Peterbilt 548 - Cummins ISL9 - 3000 Allison - 20k fronts / 46k rears with differential locks Fully Custom Built Steel/Aluminum Tanks and your choice of Blower - Shortest lead times and most customization in the industry with over 50 trucks coming in for 2023 and multiple on the ground right now - **Call Jonathan to get yours before they are gone 501-388-9565 (P04)**

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2005 Kenworth T300 Septic Truck.
2800 gallon aluminum tank. 15,235 hours 304,087 Miles. Well maintained. New Brakes and tires within the last year.
\$60,000. 608-558-0914 (P04)



2015 Freightliner Cascadia, Detroit DD15, 455hp, 461k, 10spd Eaton, Jake, New Fruitland 500 vac pump, like new Cosco 3150 gal tank with hoist and full open rear door, new tires and paint. Very nice clean truck. Finance and delivery available, **\$75,000.00 Hull's Truck Bodies LLC 740-820-5338 (P04)**



2006 Freightliner 3800 gallon tank full hoist and door. 390,000 miles one owner **\$75,000 contact Drew 507-625-3400 (P05)**



Many used trucks. Call for details and pricing. **(866) 720-4999 (PBM)**

2024 Peterbilt 548 cab & chassis with 4,000 gallon, Aluminum tank & NVE 887 pump package (Total of 4 units coming in April) Stock #14088 **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)**

Used Imperial 1200 U.S. gallon aluminum unit mounted on 2013 Ford F550 cab & chassis with Masport HXL4 pump package. Stock# 4324V **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)**



1997 Ford Pump Truck, 3500 gallon tank with fresh water tank and jetter. standard transmission. Cat10 engine 174k miles Runs well. **\$19,500 Andrew 561-302-7195 (P04)**



2007 sterling 425hp Mercedes, 291,750 miles 8LL transmission full locking rears. 3,000 gallon tank. Dash isn't cracked or broken. **\$55,000.00. 828-361-3390 (P04)**



2022 114SD Freightliner with LMT ST-3500 Debris body. 1/4 A36 carbon steel Body. NVE 4310 900 CFM PD Vacuum pump. Full opening rear door. 3-Stage Hydraulic Dump cylinder Pkg. LED lighting Pkg. Access ladder. 6 inch discharge port. 4 inch inlet port. can run with 3 inch. body vibrator. Mileage:2964. Price **\$260,000.00 Contact David Bruder at Brown Equipment 1-260-433-0893 call or text (P04)**



2008 Hino 338 Diesel 260 hp Engine, AC/Heat, Cruise Control, 6-Speed Manual Transmission. 314k miles. 350 CFM Vacuum pump. Hydro jetter with reel and hose (2500 PS). 3000 Gal Aluminum Tank. **\$39,900.00. Original Owner *NO CDL* under 26k Call/Text Billy 770-365-2566 (P04)**

New 4,000 U.S. gallon, aluminum, vacuum-pressure tank mounted on a 2023 Peterbilt 548 cab & chassis with NVE Challenger 887 fan cooled vacuum pump Stock #14056 **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)**

Used Imperial 1200 U.S. gallon aluminum unit mounted on 2014 Ford F550 cab & chassis with Masport HXL4 pump package. Stock# 7644V **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)**

2024 Peterbilt 548 cab & chassis with 4,000 gallon aluminum tank & NVE 887 pump package (Total of 4 units coming in April) Stock #14088 **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)**

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

Pre-owned 2000 Mack RD686S cab & chassis with a 4,000 U.S. gallon, carbon steel, vacuum tank unit. (Stock #0514CV) **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648) (PBM)**

Pre-owned 3,600 U.S. gallon, Aluminum vacuum tank; with a Presvac PV750 vacuum-pressure pump installed on a 2004 Peterbilt 330 cab and chassis. Stock# 1693 **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)**

New 4,000 U.S. gallon, aluminum, vacuum tank. Mounted on a 2023 Freightliner M2-106 cab and chassis w/ a NVE Challenger 887 vacuum pressure pump package. Stock# 14056 **(888)VAC-UNIT (822-8648) www.vsurentalsllc.com. (PBM)**

Stainless steel 2010 Polar 3,600-gallon tank ready to mount on your chassis or sell outright. 20" rear manway, two 4" inch rear valves with full stainless hose trays. KLM Companies 617-909-9044 **(PBM)**

2014 Freightliner Cascadia Vacuum Tank truck (white). 3,300-gallon New Tank (red). New NVE 360 cfm pump. Clean Interior. Good Cold A/C. Air Ride/ Air Brakes (jake brake). DD15 Engine. 60% Rubber on tires. Mileage: 457,286. Price: \$70,000. 1-800-721-2774 **(PBM)**

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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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)**



2014 Freightliner Cascadia Vacuum Tank truck (white). 3,300-gallon New Tank (red). New NVE 360 cfm pump. Clean Interior. Good Cold A/C. Air Ride/ Air Brakes (jake brake). DD15 Engine. 60% Rubber on tires. Mileage: 457,286. **Price: \$70,000. 1-800-721-2774 (PBM)**

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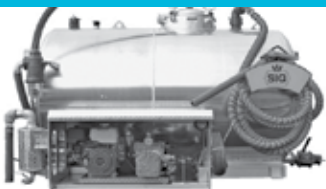
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NEW aluminum slide-in tanks. 2 available. 600-gallon (400/200) 450-gallon (300/150). Honda motors, Masport pumps. **Call JR @ 720-436-3910 or Mike @ 720-478-4796, CO (PBM)**



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Any size tank can be custom built. Slide-in tanks in all sizes. Plug and Play vacuum pumps are also available. **Call Rodney Lane 270-832-3793 for pricing. (PBM)**



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Tanks in stock and available for immediate purchase. Prices start at \$16,000 for a 2500-gallon tank. Complete and ready to place on your truck. Call J Eagle Tanks 1-800-721-2774 (PBM)



One used steel vac tank 1,500/500 w/ Moro hydraulic AC4 vac pump. **Call JR @ 720-436-3910. CO (PBM)**

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TRUCKS (DUMP, SEPTIC, MISC.)



2009 Peterbilt 10 speed, 3500 gallon tank, Pump is a Masport 2500, hoses not included, Engine and trans were rebuilt 4 years ago, truck is good just can not run in California due to the emissions law. If interested please email, Independent-pumping@yahoo.com or text **909-286-2583 Danny and he will call you back . Asking \$89,500. (P04)**



2005 Hino Grease Trap Pumper / High Pressure Jetter Cleaning Truck - - - Mileage: 161,0020 - - - Ideal Truck for Restaurants, Schools and Super Market Grease Trap Cleaning and Jetting - - - **Price: \$25,000 - - - Contact: Frank King 978-452-7750. (PBM)**



1988 S2300 International; L10 Cummins 8 speed transmission. Set up for installing and hauling pipes, risers, fittings, and tools for septic systems. Runs good, needs some TLC. **Mileage: 320,000 approx. (636) 583-5564. (PBM)**



2011 Ford F350 extended cab, 4x4, auto, 6.7 power stroke, new aluminum tank, 300 waste, 150 fresh Honda 5.5 aux engine, RV wash down system, Brand new hoses. HXL 2 Masport pump. **720-436-3910 (PBM)**

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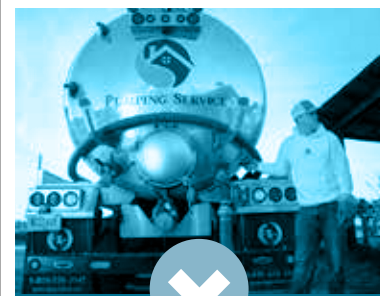
VACUUM LOADERS

Pre Owned 2005 Kenworth T800 cab and chassis with a Super Products Supersucker, industrial vacuum loader. Stock# 5064C www.vacuumsalesinc.com **(888)VAC-UNIT (822-8648) (PBM)**

2000 Guzzler Ace International chassis with CAT engine. Great running truck and blower. Tank body was recently replaced brand new from Guzzler. KLM Companies 617-909-9044. (PBM)

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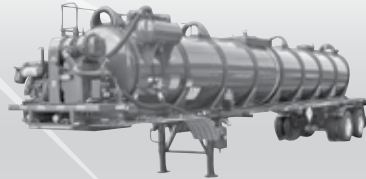
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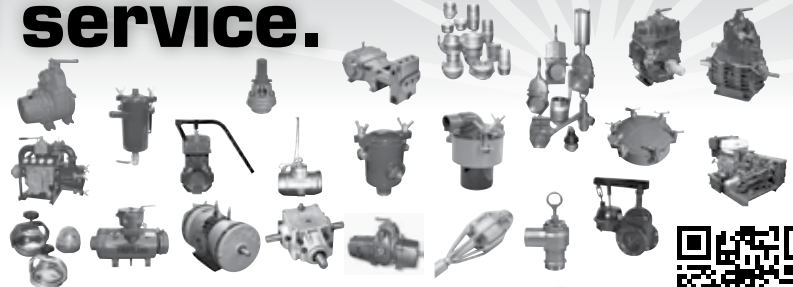
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- Preventative maintenance
- Tank swing overs, chassis alterations
- Vacuum pumps, blowers, and water jetters rebuilt
- Pick-up and delivery available

Parts

- Vacuum Pumps (All major brands available)
- Pump rebuild kits
- Pump mounts and drives
- Filter bags and final filters
- Valves: Brass, Steel, Stainless
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- Hose and hose fittings
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