

# Pumper

DEDICATED TO THE LIQUID WASTE INDUSTRY

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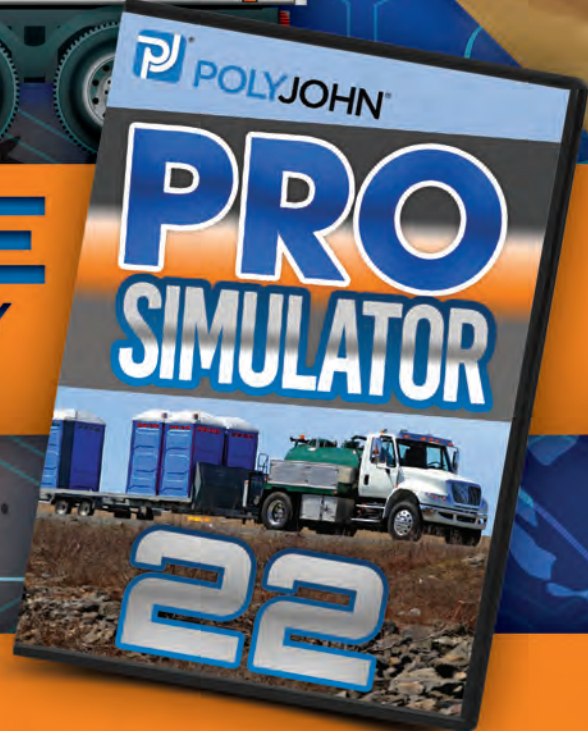


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# CHANGING THE INDUSTRY

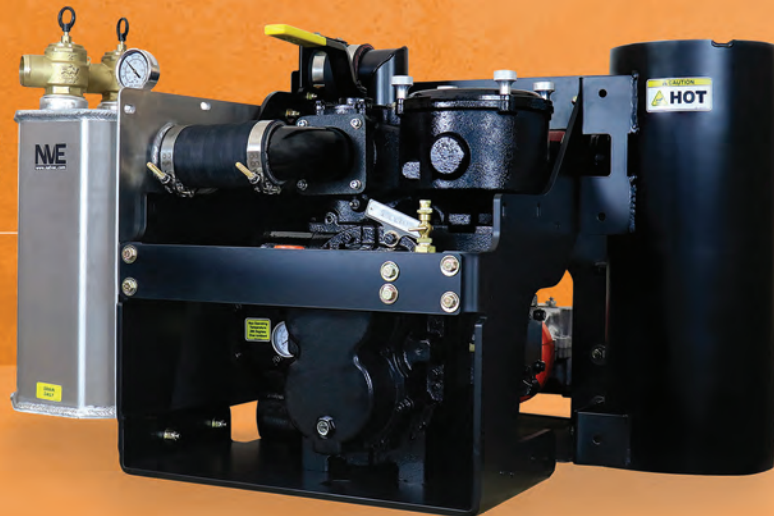
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A message to all our friends

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Now, I have some news about Armstrong Equipment, Inc., and our direction for the future. After 50 years in the industry, I have decided to retire and let the young folks take the helm and show us how capable they really are. It is with pride I leave a company that is financially sound and well respected, ready to continue moving forward. Like most small business owners, I will stand to the side, ready to answer questions and offer gems of Tribal Knowledge when needed.

As many already know, Jerome Walker joined us in 2006, 16 years ago. Since that time, he advanced to Sales Manager, General Manager, Chief Operating officer, and now ... OWNER!

Jerome is one of the finest young men I have ever known; patient, knowledgeable, able to juggle 10 projects without a stumble, and always, always striving to help our company and the industry we serve flourish during the most trying of times. During his tenure, I have watched our sales triple and our position in this very specialized industry advance immeasurably. It is with the greatest pleasure I pass the torch to Mr. Jerome Walker!

Once again, I thank you for your help, your valued support and your friendship.

Sincerely,  
*John Armstrong*  
 The "Burgermeister"

An advertisement for Milwaukee Rubber Products (MRP) featuring a collage of various hoses and equipment. On the left, a worker in a trench is using a large corrugated hose. The background is a green field with a white truck. The text "MRP MILWAUKEE RUBBER PRODUCTS" is in the bottom left. The main text "HOSE &amp; EQUIPMENT SPECIALISTS" is in large, bold, white letters with a black outline. On the right, there is a "Kanaflex Hose Distributor" logo. The bottom of the ad features logos for various brands: Kanaflex, FLEXAUST, PLASTIFLEX, tigerflex, PRANIX, JUROP, ENKON, E.T.O.N., Parker, B.W. Technologies, and NVE. The website "www.MilwaukeeRubber.com" and phone number "800-325-3730" are prominently displayed. Payment logos for VISA, MasterCard, and Discover are also present.

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Once Brittany Decker joined her husband, Jamie, at Decker Sanitation Services, the Dorchester, Wisconsin, pumping company really took off. The Deckers are shown with one of their rigs, an International HX built out by Imperial Industries and carrying an NVE 4310 blower. (Photo by Jack Flint)

## COMING IN MAY:

➤ **SNAPSHOT:** Permit rules are outdated in Illinois

➤ **PROFILE:** One-man operation in Maine

# Pumper®

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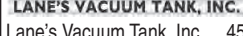


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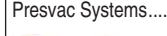
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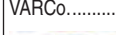
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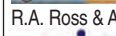


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Contact Jim with your comments, questions and opinions at [editor@pumper.com](mailto:editor@pumper.com).

**Jim Kneiszel**  
Editor

# In Praise of the Septic Service Provider

A small-town newspaper columnist took time to listen and learn from his pumper, then passed along his thanks for providing a vital service

**R**etired U.S. Marine Barry Fetzer has been writing columns for hometown papers in North Carolina for many years. He likes to amplify life experiences to show Americans aren't really at each other's throats the way it appears in the media these days. Barry will tell you that his one-on-one experiences with folks in America's heartland have been — by and large — on the positive side of the ledger.

Such was the case when Barry met his septic service provider. His time with the pumper he called "Ricky" was refreshing and educational so he decided to write about it in his column for the Southern Pines Pilot. It is not often enough that a member of the wastewater industry is singled out for doing a good job, so I was compelled to give Barry a call and learn more.

*He could have easily used vulgarity for what he did, but he was an intelligent, philosophical gentleman, even though he drove and operated what is delicately known as a "honey wagon."*

*Septic tank work is one of those jobs we know is necessary but prefer to not think too much about, nor do we want to get too close to those who do that work for us. It's a job we know, inherently, somebody has to do. But we're sure glad it's not us.*

—Barry Fetzer

When Ricky arrived, Barry offered him a sweet tea before he commenced pumping the tank. The pumper was big, burly and bearded — "a bib overall kind of guy," Barry recalled. The marine remembered what his mother had taught him about not forming preconceived notions about people based solely on their appearance.

"He very quickly proved to me that he was not only kind in the way he spoke, but he was talking about how the septic system works, the chemistry and the physics involved. He was well-versed in all the aspects of his work and very thorough."

## SEPTIC SMART

As it turns out, Barry was also well-versed in septic system care. He and his wife, Arlene, had lived in this house for 20 years and routinely had their

**W**He very quickly proved to me that he was not only kind in the way he spoke, but he was talking about how the septic system works, the chemistry and the physics involved. He was well-versed in all the aspects of his work and very thorough. "

— Barry Fetzer

tank pumped. They were planning to sell and downsize into a more practical house for aging in place. They planned to have a point-of-sale inspection of the septic system and called on the pumper to empty the tank first.

"I wanted to make sure I was giving the new homeowner a clean bill of health for the septic system," Barry said.

Unlike many septic service customers, Barry also knew of the great value provided by decentralized wastewater treatment. I frequently hear from pumpers that their customers complain about how much it costs to pump and maintain their septic systems. Barry wouldn't do that. After they moved off of the septic and into a home on the municipal sewer line, he soon realized what a great deal he had.

"When we moved, we were amazed at how much we were paying, not for water but for running water down the drain," he said. "We were really pleased that over 20 years the septic system worked fine as long as you maintained it. They are part of our national infrastructure and they have to be maintained."

Beyond pumping, Barry took septic system maintenance seriously. He always asked visitors to avoid flushing anything but human waste and toilet paper — an even brought out a sign asking female visitors not to flush tampons.

*And then he graciously said he was glad he could do it so others wouldn't have to. "Still," he said, "I never pictured myself doing this for a living when I was growing up. Who would?"*



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*Ricky serves in a job that, in many respects, is invisible. The work is hidden behind what could be called a "veil of repulsiveness."*

As they visited, the pumper told Barry that the worst part of his job was that customers often don't want much to do with him. It was as if they wanted to stay behind that screen door so they didn't have to have any contact with the unfortunate guy who took care of their waste. Barry said pumpers aren't alone in this respect, that a lot of hardworking Americans are not treated with the kindness and respect they deserve.

**PUBLIC SERVICE**

"Unfortunately a lot of invisible people work with us and for us. The fast food workers hand us our food, we pay them our money and they're never seen again. They're doing important work for us, but they are invisible in many ways," he said. "Joy to me is if I can make one person's day every day. Maybe it's doing a little to justify breathing all the oxygen I'm breathing."

As he mentioned in his column, Barry said pumpers are making our lives much better by providing a critical public health and safety service. He'd remind us that life wasn't always so convenient and trouble-free.

"A hundred years ago we were all Rickys when we had to empty our own outhouses and chamber pots, move and rebuild outhouse pits or dodge people throwing excrement out the window," he said. "This is an acknowledgement that for a modern society to exist, we have to have people to do those jobs. The need for this kind of work is vital."

*So, in this season of thankfulness and gratitude, one of the many things I am remembering to be grateful for are modern conveniences. And also, for invisible men like Ricky who do the dirty jobs we know inherently are necessary and who are content to do them so we don't have to do them ourselves.*

The sweet tea was the second of Barry's nice gestures for the pumper. The first was that he removed a layer of soil over the tank lid so it could be reached more easily. Then he followed the service with a tip on top of the bill. He said all of these seemed unexpected but appreciated. "He didn't say it up front, but alluded that he didn't see that too often from his customers," Barry said.

**WELL DESERVED RECOGNITION**

Besides being what might be considered a pumper's dream customer, perhaps Barry's greatest gift was sharing the story of an unsung blue collar hero in his community. Pumpers do a tough job and are seldom praised for their contributions to society. Kudos to a retired Marine and small-town newspaperman who took the time to right that wrong. **P**



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EDUCATING THE PUBLIC

## the power of powerpoint

Tennessee's Ernie Anderson says it's his duty to educate consumers and realtors about septic system care. Inspecting septic systems has been a growing sideline business for Anderson, and to get noticed, he doesn't simply tell people what he does, he shows off his services in a presentation.

[pumper.com/featured](#)



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“ If you're thinking through the lens of punishment to create accountability, you're already past the point where success is possible. ”

– *How to Foster Accountability in the Workplace*  
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SYSTEM INSTALLATIONS

## working on wet sites

Many components in a septic system must be stable and dry during construction to assure long-term viability. When it comes to stability, dewatering may be needed on extremely wet sites to assure stable installations for tanks and treatment units. This online article offers several options to achieve this.

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FROZEN GROUND

## excavation tips

To avoid the challenges of snow, ice and frozen ground, contractors will often stop working early in the winter season and delay starting projects in late winter. But companies that do that lose out on the potential to generate revenue during that time. Check out this article to get tips for excavating frozen ground.

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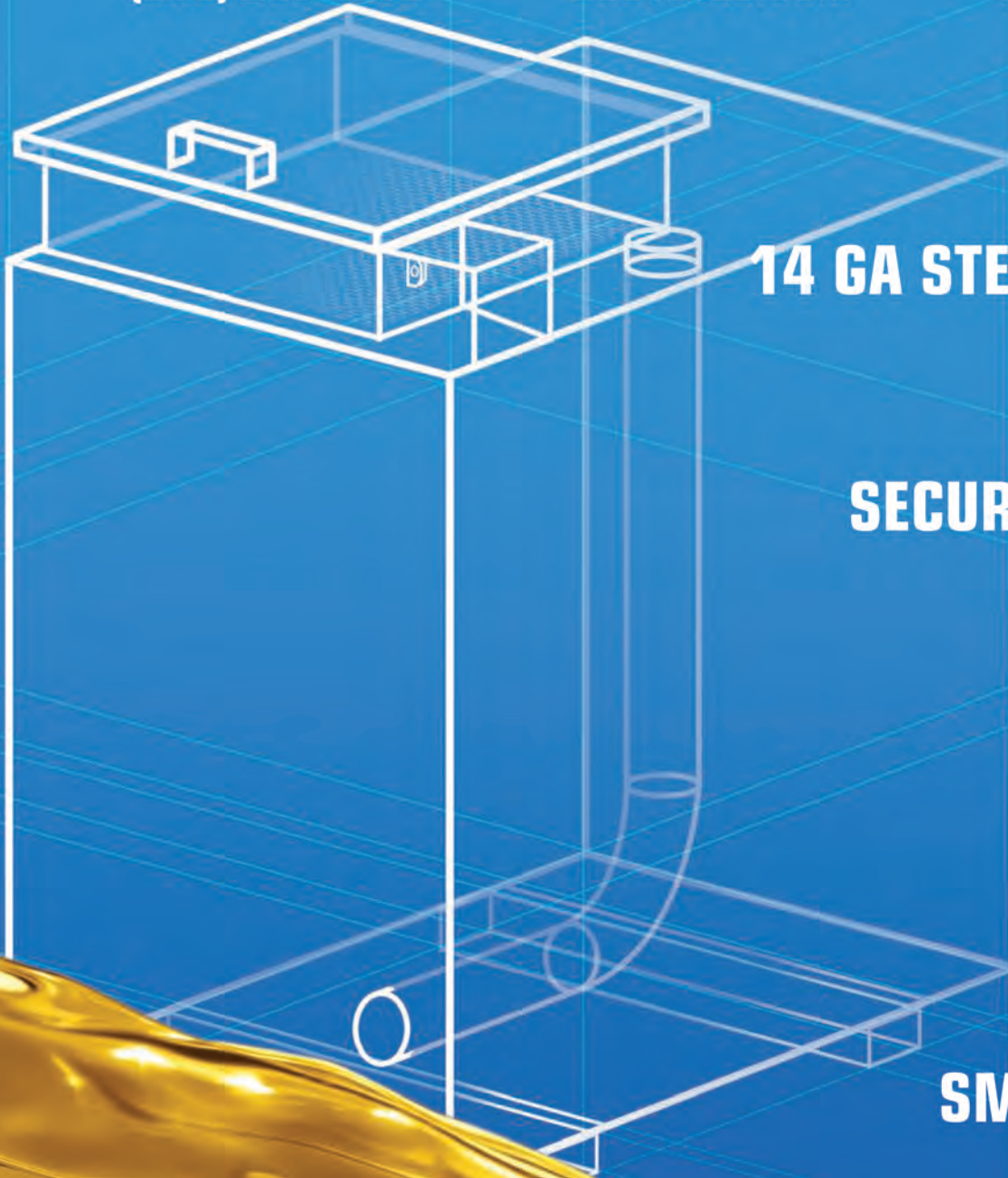


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# Gimme the HOSE!

Wisconsin's Jamie Decker found out early on that the wastewater industry was a good match for his hard-working attitude

By Betty Dageforde



## Decker Sanitation Services

Dorchester, Wisconsin

**OWNERS:** Jamie and Brittany Decker

**FOUNDED:** 2004

**EMPLOYEES:** 9

**SERVICE AREA:** 60-mile radius

**SERVICES:** Septic and holding tank pumping, portable sanitation

**WEBSITE:** [www.deckersanitation.com](http://www.deckersanitation.com)



**D**uring 2004, Jamie Decker worked mornings at his uncle's farm, nights at a neighbor's farm, bought nine portable restrooms and started a business — all while he was a junior in high school. His ambition never let up. The following year he graduated a semester early and added a night shift job at the sawmill.

But after five years he was given a push into full-time self-employment. "It was tough to give up the job because I made really good money," he says. "But in 2009 my uncle approached me to buy his septic business. So I put my two weeks' notice in at the sawmill and bought him out." His uncle, David Erl, stayed on with the company. Other helpers along the way also propelled the business forward, the most significant of which was Decker's wife, Brittany, who eventually joined the company. She brought business experience, automation and professionalization to the operation.

Today the Deckers operate Decker Sanitation Services out of a 10-bay shop and office in Dorchester, Wisconsin. In addition to Erl, their team includes Decker's cousins Jordan Christianson and Caden Decker, Ken Stickney, Shawn Tyznik, summer helper Ashton Cliver and Tylor Duellman who works when needed. Their service territory covers a 60-mile radius for portable restroom work and a 45-mile radius for pumping services.

“ WE STARTED COMPLETELY FROM SCRATCH AND BUILT IT TO WHERE EVERYTHING IS LIVE FEED FOR OUR GUYS IN THE TRUCK. ... THE GUYS PUT THE INFORMATION IN RIGHT AWAY AT THE JOB AND WHEN I NEED TO DO MY REPORTS I JUST PUSH A BUTTON AND EVERYTHING’S RIGHT THERE. THAT WAS HUGE. ” — BRITTANY DECKER



▲ The Decker Sanitation Services crew includes, from left, Jordan Christianson, Ken Stickney, Shawn Tyznik, Caden Decker, and Brittany and Jamie Decker. Most of their fleet of vacuum trucks was built out by Imperial Industries.

## EARLY DAYS

It was Decker’s uncle who suggested he start a business. As a student, Decker was anxious to have spending money and his uncle knew from his septic customers there was a demand for portable restrooms. With family help, Decker bought seven standard and two wheelchair accessible units from Satellite Industries, a 2000 Chevy three-quarter-ton pickup with an Imperial Industries 200-gallon waste/100-gallon freshwater slide-in tank and Jupop pump, and a four-place snowmobile trailer for hauling units. His father Bill helped out when needed; his mother Diane handled phone calls, scheduling and invoicing; and his sister Kelly Decker-Gozdecki did year-end bookwork.

A big break for the company came in 2008 when Decker won a five-year contract to provide portable restrooms for Country & Rock Fest, one of the country’s largest music and camping events. To do so, he had to increase his inventory significantly, up to about 550 units, relying on his parents to co-sign a loan — which he found aggravating. “I was 22. You go around and ask the bank for that kind of money and they said they wouldn’t even normally look at a guy my age and single,” he says.

Then, with taking over his uncle’s septic business the following year, the business really started to grow.



▲ The Decker Sanitation Services shop is set up for year-round equipment maintenance with several bays to keep the trucks out of the harsh Wisconsin weather.

## ➤ Pumper PROFILE



Brittany Decker is shown in the Decker Sanitation Services office. She added new technology for driver routing, billing and communication that helped the company continue on a growth trajectory.

Technician Ken Stickney performs general maintenance on his truck before heading out for a day of pumping.



“PEOPLE WANT TO TALK TO SOMEBODY RIGHT AWAY AND BE TAKEN CARE OF, THEY DON'T WANT TO LEAVE A MESSAGE. (WHEN I JOINED THE COMPANY), THAT REALLY HELPED OUR BUSINESS GROW. WE JUST TOOK OFF LIKE CRAZY FROM THAT POINT ON.”

BRITTANY DECKER

### TURNING POINT

A lot changed for the company around the mid-2010s. The Rock Fest contract was up and put out for bid again. Decker took some time to assess the pros and cons and came to a tough decision.

“It was something different, interesting,” he says, “But with the competition and bidding, I didn’t feel there was enough money to be made. It was a lot of work and we needed so much manpower. And trying to find help and do you trust them or not was hard.” He chose instead to downsize, sell off some equipment and add onto his shop.

Meanwhile, the septic business took a leap forward when Decker bought out two companies, hired another technician and eventually bought another vacuum truck.

And 2015 was the year Jamie and Brittany got married. Brittany also had her own business, a consignment shop. But she could see it would make more sense to join his company.

“We were missing so many phone calls while Jamie was out in the truck and I was at my shop,” she says. “So I decided to close the shop. People want to talk to somebody right away and be taken care of, they don’t want to leave a message. That really helped our business grow. We just took off like crazy from that point on.”

### GOING DIGITAL

Brittany also could see it was time to computerize the company’s back-end processes. “When I met Jamie, everything was pen-and-paper and took forever,” she says. She knew digitizing would help the company as it grew. Brittany put the bookkeeping on QuickBooks and got a website going. They enlisted the help of an IT consultant at APB Solutions to design software to manage their small business.

“We started completely from scratch and built it to where everything is live feed for our guys in the truck,” Brittany says. “It does dispatch, billing, all my DNR (Wisconsin Department of Natural Resources) reports. The guys put the information in right away at the job and when I need to do my reports I just push a button and everything’s right there. That was huge.”

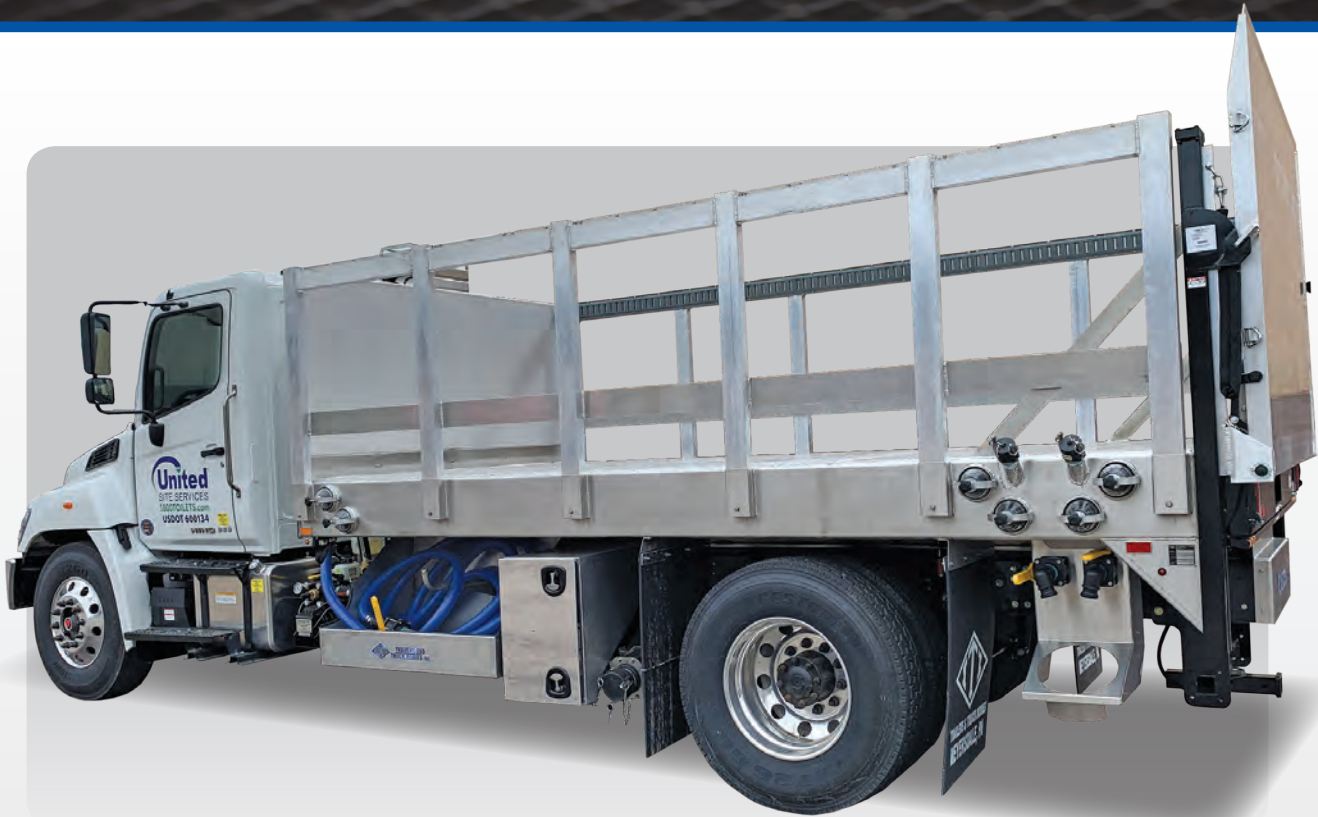
Recently added capabilities that allow people to pay their bill, order service or request a quote were immediately popular. In the future, they will add features for routing and printing receipts at the job site. Brittany admits it was a hard pill to swallow paying a couple thousand dollars to have the software built but says it has paid for itself. She says they especially notice the value on those rare occasions the internet is down and they have to revert to the old system. “It’s like, ‘How did you run a business like this?’”

(continued)



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## ➤ Pumper PROFILE



➤ Technician Ken Stickney returns hoses after pumping out a customer's holding tank.

### PUMPING BREAKDOWN

Septic and holding tank pumping account for about 75% of the company's work. Because of the heavy clay soils in their area, more people have holding tanks than septic systems. An average home with a 4,000-gallon holding tank needs pumping every month-and-a-half or two months, although that increased during COVID as people worked and attended school

from home. Septic systems are generally pumped every three years. A lot are older and for a while the counties were pushing people to update them. But they were lenient during the pandemic and just made sure systems were being maintained.

Most of the company's vacuum trucks were built out by Imperial — a 1989 Freightliner with a 4,000-gallon steel tank, a 2007 Peterbilt with a 6,000-gallon steel tank, both with National Vacuum Equipment pumps, and 2019, 2020 and 2022 International HX620s with 6,000- or 6,200-gallon aluminum tanks and NVE 4310 blowers. They splurged on the last one and had a vinyl wrap put on it by PRO Designs. Decker says 95% of the waste goes to treatment plants but he rents land from relatives and has an AGCO 3,200-gallon injector truck for land application.

The company uses its septic trucks for a few non-septage customers. They used to have a number of mink farm clients until mink prices fell, but still have one and haul the washdown from the feed kitchen and storm sewer runoff. They also service grease traps for local restaurants and haul three loads a week of soy ink to a treatment facility for a packaging company that makes food-grade boxes.



### Accidents happen

On Nov. 3, 2020, just as Jamie and Brittany Decker were getting ready to leave the office early to go out for his birthday, they got a call that their 2007 Peterbilt septic truck had been in an accident. "After an intersection, the driver said he met a vehicle who didn't get over and he got over too far (trying to avoid a collision)," Jamie Decker says. "He rolled it over and smashed the cab." They ran out to the truck instead of out to eat and pumped it. No one was hurt but the insurance company totaled the vehicle.

They rented a vacuum truck for a couple weeks to finish out their

busy season and ordered a new one. They also decided to buy back the Peterbilt from the insurance company since they had just had it overhauled the year prior and didn't want to let it go. They replaced the cab and fixed a dent in the tank.

The accident was a wakeup call for the company. They started holding more safety meetings and hired a consultant to make sure the office, drivers and vehicles were fully safety compliant. "After you have an accident like that, you feel a little nervous," Brittany says. "You just want to make sure you're covered."

### RESTROOM WORK

On the portable restroom side, the company now has about 325 standard and 22 wheelchair-accessible units (PolyJohn, Satellite Industries, Sansom Industries), two Satellite ADA-compliant units and 20 Satellite hand-wash stations. Decker likes gray units to differentiate them from competitors and to accommodate customers who prefer units that don't stand out visually. They use J&J Chemical deodorant products.

Their 2017 Ram 5500 with a 455-gallon waste/245-gallon freshwater aluminum sidewinder tank from Imperial and Masport HXL4 pump has a lift gate and room for six units. The 2021 International MV607 built out by Imperial has a three-compartment stainless steel flatbed tank (650 gallons waste, 275 gallons freshwater, 275 gallons saltwater brine), an NVE blower and can haul eight units.

(continued)

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About 30% of their restroom work is for events — Dorchester Days, Stanley Rodeo, Loyal Corn Fest, Colby Cheese Days. They also do a lot of private parties, especially since the pandemic. And people are starting to remodel their old barns and rent them out for weddings and parties. As a result, the company is now getting requests for restroom trailers, so that may be one of their next purchases.

Commercial customers include greenhouses, dairy farms and companies that want units at their loading docks so drivers don't have to enter their buildings. A large Mennonite/Amish community in their county uses units at grocery and discount stores and for weddings and funerals.

### BUILDING THE BUSINESS

The company has had a few employee glitches along the way. Raising wages really helped attract higher-quality workers and the Deckers now feel their current crew meshes well and everyone is self-motivated. They hold monthly meetings to touch base and talk about changes or issues. "And after work, sometimes we'll have a beer or two and BS about stuff," Decker says. "We're pretty tight knit."

Decker enjoys the freedom of being his own boss and is proud to say he still has his first customer, a grain farmer. Brittany adds she appreciates the flexibility of being able to attend their children's events (Owen 10, Aubree 6, Ellie 4, Emmett 1). The downside, she says, is never getting away from the business. They're often sneaking back into the office to get things

done, or checking phones on the weekend for emergencies. But she says they both love it and can't picture themselves doing anything else. "It just works for us. We're still looking to expand here and there. We'll roll with the punches, whatever comes our way." **P**



Stickney pumps a residential holding tank. Because of poor soils, the company has more customers on holding tanks than septic systems. The average holding tank holds 4,000 gallons and is pumped every six weeks.

Stickney opens the valve on his vacuum truck, which was built out by Imperial Industries and carries an NVE blower.



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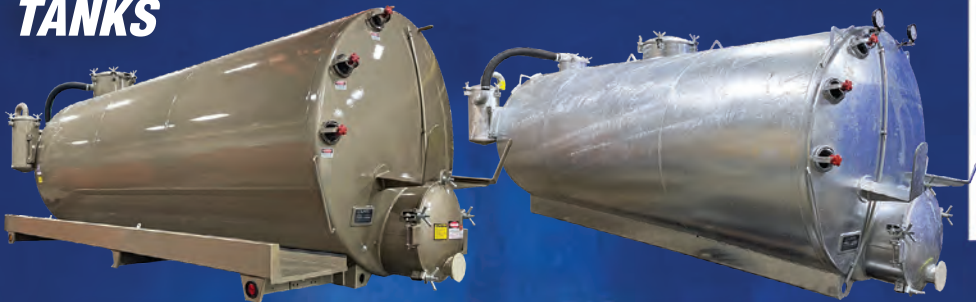


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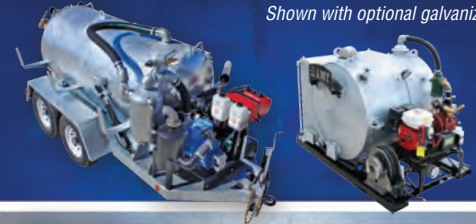


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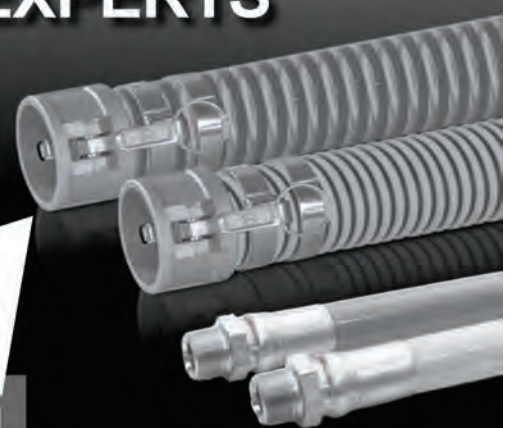
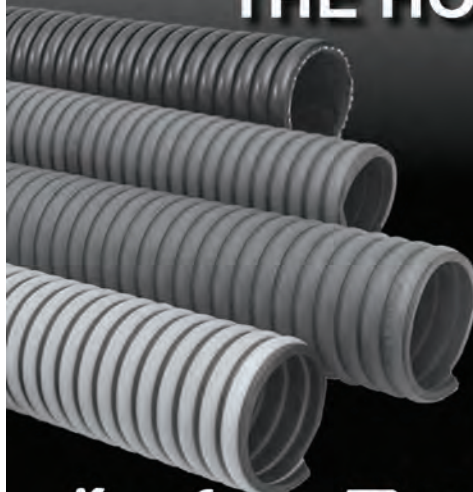
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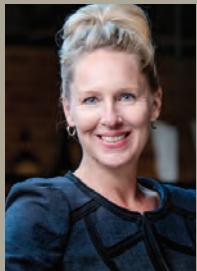
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# Employees Not Measuring Up? Do's and Don'ts of Improving Performance.

Set expectations, communicate clearly and meet regularly to improve productivity in your workplace

By Liz Uram

**H**ave you ever dreaded having a conversation with an employee who wasn't meeting performance expectations? Maybe you avoided it, hoping it would improve on its own? If so, you are not alone.

Most managers would agree that one of their least favorite tasks is talking to an employee about poor performance. When performance conversations are ignored, success is left up to interpretation. This can only result in conflict because everyone has different perceptions.

When an employee's failures can no longer be avoided, too many managers say in frustration, "They should have known!" And the good-intentioned employee who thinks they are knocking it out of the park is shocked when they finally find out they are barely getting by.

## DON'T IGNORE A PROBLEM

Addressing performance issues can be unpleasant and stressful. To avoid this discomfort, some managers ignore the issue and hope the situation improves on its own. Avoiding difficult discussions leads down dead-end roads:

**High stress levels.** There are enough things in life to stress out about and discussing performance doesn't need to be one of them. Stress is serious business. It accounts for 67% of all illness according to one study.

**Poor morale.** One of the fastest ways to demotivate a team is to ignore poor performers. The rest of the team can see what's going on and they are looking to the manager to address it. When the manager doesn't deal with it, the result is often negative attitudes. Bad attitudes are contagious and soon there are bigger issues to deal with than one person's performance.

**Low-performing teams.** People will perform to the standard that's allowed. A manager who doesn't hold people accountable sends the message that it's okay to deliver less than what's acceptable.

These are dead ends to career growth, for both the employees and manager, and can affect the organization as a whole so they must be avoided.

Luckily, there is a better way. Let's look at a simple three-step solution that works. In a nutshell, you want to set clear performance expectations, communicate the performance expectations and meet regularly to discuss performance progress.

### Set clear expectations

You can only hold people accountable when they know what's expected of them. When performance expectations have been clearly defined it's easy to measure achievement and give feedback. The key is to define the expectation in black and white so there is no room for ambiguity. A manager needs to understand what is important to measure and how to measure it.

➤ Most people want to do a good job and will rise to the expectations when they know what they are. Don't assume that people understand the expectations. One survey revealed that 50% of employees don't understand what is expected of them at work.

For example, one company improved its order entry accuracy rate from 65% to 99% defining the expectation for completion. The low completion rate was a result of the team leaving a field on the order form blank. They weren't lazy they just didn't understand why the field needed to be completed, and the manager had never defined the expectation.

### Communicate expectations

Communicating performance expectations before there is a problem is the key to no-stress conversations later on.

Most people want to do a good job and will rise to the expectations when they know what they are. Don't assume that people understand the expectations. One survey revealed that 50% of employees don't understand what is expected of them at work.

Document the performance expectations and share them with new employees right away so they are set for success from the start.

### Meet regularly

Meeting regularly with individual team members to discuss their progress creates a culture of trust. How often you need to meet with people varies, but a good rule of thumb is plan a meeting at least once a month. If you defined and communicated the expectations in advance, there won't be any surprises. The employee will know exactly how they're doing. If they are falling short, you can turn it into a positive coaching conversation to help them get back on track.

## MAKE EVERYONE HAPPY

When these three simple rules are followed, performance discussions are easy, transparent and positive. The manager earns a good reputation, the team is motivated and there is less conflict. Those are great benefits that result in successful teams and organizations that are able to fulfill their mission and purpose. **P**



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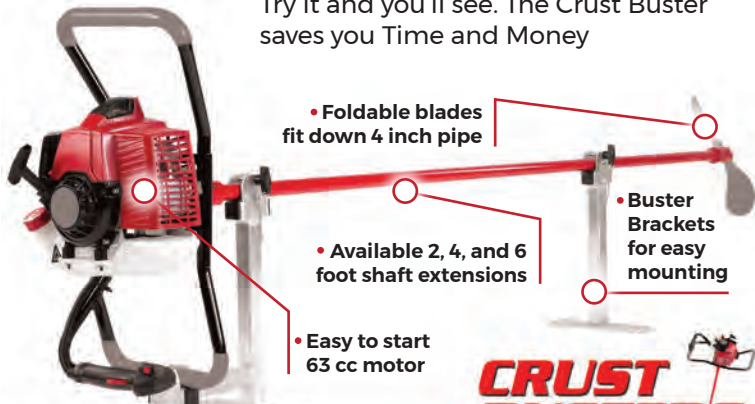
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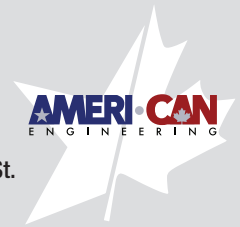
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Shell Construction	Steel/Aluminum or Fiberglass	Aluminum and aluminum composite
Weight (lbs)	Varies	3,500 - 21,000
Lengths	8' - 32'	8' - 52'
Fixtures	Varies according to series (interior finish)	Delta Commercial, Toto, Kohler, Dometic, Thetford
Waste 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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Trailer Series	Portable Restroom, ADA and Shower Trailers	Handicap Accessible (All Configurations), Restroom, Shower, Locker, Decontamination, Emergency and Custom Units	Restroom, Shower, ADA, Command Center, Bunkhouse, Disaster Relief
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 tubes and fiberglass gel-coat
Weight (lbs)	Varies	2,800 - 15,000	850 - 14,000
Lengths	10' - 42'	8' - 53' (semi-trailer)	4' - 40'
Fixtures	Delta faucets, Chicago domestic and Moen available	Moen lavatory and shower fixtures - custom upgrades available	Low flow, high efficiency
Waste Tank Sizes (gal)	100 - 1,300	300+ tanks are configured to trailer size, patented one-piece, roto-mold, S.P., polyethylene waste tanks	60 - 1,400
Fresh Tank Sizes (gal)	200 - 400	105 - 400	40 - 500
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	Patented cartridge safety steps, direct charge battery, sidewinder jacks, A/C with heat strip, no-wood Forever Floor
Frame Construction	Steel I-beam	Custom-engineered structural steel	Structural
Deck Construction	Non-wood floor decking	3/4-inch marine-grade plywood with waterproof vapor barrier, available fiberglass subfloor	Forever Floor
Floor Joist Specs	Steel tube	Steel tube - 16-inch OC	16-inch OC
Interior Trim	Aluminum angle trim in Commercial and wood trim in Luxury series	White trim standard, aluminum and other options available	Anodized aluminum and PVC
Flooring	Commercial grade linoleum or TPO	Custom vinyl flooring, commercial nonslip rubber flooring	H/D seamless Vinyl
Warranty	3-year bumper to bumper, 24/7 tech support	5 years on frame, 3 years on everything else	2 years
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	Various



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Trailer Series	Restroom Trailers, Shower Trailers, Handicap-Accessible Restroom Trailers	Explorer Contractor II	1- to 6-Unit VIP, 1- to 3-Unit Prestige and Diplomat, 2- to 4-Unit Majestic
Shell Construction	Composite (gel-coated fiberglass)	Heavy-duty steel shell, formed with a continuous-welded leakproof construction	High-density, 1/2-inch polyethylene plastic Majestic - high-grade smooth fiberglass
Weight (lbs)	3,000 - 21,000	4,800	1,400 - 7,000
Lengths	8' - 43'	13'	11' - 24'
Fixtures	Delta metered faucets, Dometic low-flow toilets, waterless urinals	Polished stainless steel countertops and sinks with self-closing faucets, water-saving flush toilets and urinals	Chicago auto-off faucets, Dometic porcelain toilet with Teflon seal
Waste Tank Sizes (gal)	250 - 1,300	240 US all-steel holding tank, hot-dipped galvanized after welding, 2-inch vent stack, 3-inch drain	VIP and Prestige 65, Diplomat 90, Majestic Shared Tanks - Dual 150/Quad 300
Fresh Tank Sizes (gal)	105 - 600	200 US supply tank, high-density polyethylene	VIP and Prestige 40, Diplomat 55, Majestic Shared Tanks - Dual 90/Quad 180
Additional Standard Features	Seamless gel-coated fiberglass interior, exterior, roof and sub floor, polypropylene waste tank, A/C units with heat strip, steel freshwater tank surround, waste tank with built-in spray bar, large mechanical room, LED lighting inside and out, metered faucets	Negative-pressure ventilation system incorporating a 300 cfm blower and ducted room headers, fully insulated floor and walls, complete heating and optional A/C system, front utility room for electrical panel, water heater, water pump and supplies storage	Solar-powered, self-contained, with no required electrical or water connections, flushing toilet/Teflon seal, sink, trash and mirror, 125 to 580 average uses, LED int./ext. lighting with power roof vent standard
Frame Construction	12-inch steel I-beam	All-steel 10-inch frame with removable tongue	Steel
Deck Construction	Composite		Steel, aluminum diamond plate
Floor Joist Specs	16-inch OC	All-steel channels	Steel
Interior Trim	Varies by model	Complete white-fiberglass-reinforced plastic anti-graffiti interior wall and ceiling surface	Polyethylene/proprietary extruded aluminum; Majestic - high-grade smooth fiberglass, brushed aluminum ceilings
Flooring	One-piece vinyl	Full-length aluminum safety walk floor	Weatherproof gray carpeting Majestic - planked linoleum composite Pelham Maple
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400 - 1,100 higher strength, high density polyethylene with multiple sump options	200 - 1,150 1/2-inch polypropylene tank with bottom dump
Varies with options available	100 - 300
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
E-coated steel with 20k adjustable coupler and 7k tongue jack	Structural steel I-beam
Stabledeck	Non-wood seamless composite decking
E-coated steel tube	16-inch OC
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# Your Company Is Bursting at the Seams: What's Next?

Follow this advice if it's time to consider buying a commercial property to allow your pumping business room to grow

By Joan Koehne

Operating a business from a shop in your backyard and a home office may be practical for very small businesses. However, as a wastewater business grows, the need for space likely grows, too. Once a business starts hiring employees or adding services, it may be time to find a commercial facility.

Leasing a facility is a good option for many contractors, but nothing compares to having your own space. Owning a building allows you to renovate, expand and brand the facility to your liking. Additionally, buying a property adds an asset to the business. The property becomes part of the owner's and company's financial portfolio. Potentially, a facility can be part of the owner's retirement plan. Upon retirement, you can sell or lease the commercial property to a successor or another company.

The first step to buying a commercial property is meeting with a banker or lender, says Nate Gamlin, broker-owner at Big Woods Realty in Wausaukee, Wisconsin.

"You don't want to spend a lot of time looking at properties that the bank isn't going to cover," he says. He recommends sitting down with a local banker to determine what's affordable and arrange financing, possibly through a U.S. Small Business Administration loan. When financing is set, it's time to work with a real estate agent who has experience in commercial property transactions.

## ASK THE EXPERT

Business owners may not have the time to research properties on the market, so that's where a real estate agent steps in. Through most real estate agencies, you can work with a buyer's agent who guides a buyer through the purchasing process and looks out for the buyer's best interests.

"It doesn't cost the buyer anything extra," Gamlin says. The seller is responsible for paying the buyer's real estate agent.

A buyer can set parameters related to price, size and location, so the agent can pre-qualify properties to bring to a buyer's attention. Typically, a commercial building will have some combination of a showroom, conference room, individual offices or cubicles, a break room, restrooms and equipment/inventory space.

A contractor with trucks and heavy equipment will want additional amenities. For example, how important is it to park trucks and equipment indoors? The value of having them locked up, easily accessible for

maintenance and protected from the elements, especially in the winter, is probably worth the investment. Getting into a nice, warm truck in the morning beats the alternative.

Sheds, shops and outbuildings may also be must-have facilities for septic and drain companies. However, zoning ordinances may restrict the number and size of buildings on a property. Zoning ordinances can get in the way of purchasing a property if the intended use doesn't comply with zoning ordinances.

Driveways and parking lots obviously are important parts of the business. You want traffic to flow, and you want it to be obvious where there's customer parking and employee parking and a separate area for equipment. "

— Nate Gamlin

"Depending on where you want your business to be located, zoning can be a big issue. In larger municipalities, you're going to have very strict zoning," Gamlin says. This may be a particular challenge for companies that convey or store wastewater as part of their operations.

Generally speaking, commercial zones group similar businesses in one location. Commercial zones have accommodations for traffic flow, parking, signage and other business amenities.

## LOOK FOR HAZARDS

"There are different levels of commercial use, and there could be a wide range they qualify for," Gamlin says. An unsuitable zoning ordinance doesn't necessarily kill the deal. A buyer can add a contingency clause to an offer to purchase, contingent upon the

(continued)



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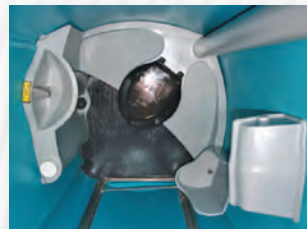
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 A commercial property constructed or renovated with a pumping operation in mind can bring significant value to your business. (Photo by Jim Kneiszel)

## LOCATION, LOCATION, LOCATION

When evaluating a property to purchase, Gamlin recommends checking it over inside and out.

“Sometimes you spend so much time looking at the building, but not the land,” Gamlin says. You might miss the potholes in the parking lot or the small space to pile snow — hauling snow gets to be expensive. Snow removal, lawn mowing and landscaping expenses are easy to overlook when shopping for a commercial facility. Yet, they can add up quickly.

Other expenses are more obvious. Be sure to find out what the previous owner paid for property taxes and utilities.

“Everybody’s utility use is a little different,” Gamlin says.

Location is another factor to consider. A busy street has the advantage of exposure. Signs and company trucks parked outside can capture the attention of passing traffic. However, a busy street might make it difficult for trucks to enter, back up, park or merge into traffic.

When evaluating properties, consider the value of a drive-through truck bay. Trucks enter through one door and exit through another, without having

to back in and out. Convenient, safe and timesaving all at once. A drive-through bay may not be feasible at the properties on the market, but there are alternatives.

“Driveways and parking lots obviously are important parts of the business. You want traffic to flow, and you want it to be obvious where there’s customer parking and employee parking and a separate area for equipment,” Gamlin says.

Any agreement to share a parking lot or driveway with a neighboring property needs to be detailed and understandable, he advises. “Nobody wants to argue with the neighbor.”

## ROOM FOR EXPANSION

Nobody wants to argue with tenants, either. While some commercial properties on the market are vacant, others are leased. Gamlin recommends reading the lease agreement and understanding the tenants’ rights before placing an offer to purchase. Sharing the space may be beneficial, especially since rent payments can help cover the mortgage.

With any purchase, there will be trade-offs. Gamlin says that’s OK.

“Don’t worry about having everything you want right away.” Companies can purchase a commercial building with a lot of potential, then renovate it to suit their needs.

“You can always get a property with plenty of room for expansion,” Gamlin says. “It’s easier to add on than start at a new location.”

Choosing a location depends upon what’s available near your customer base, what’s affordable and what fits your business operations. No property will be perfect, but renovation or expansion can bring the property closer your ideal facility. There’s bound to be trade-offs, but purchasing an existing property typically is less expensive than building new.

Finding a commercial property that’s right for you will take some time and research. Working with an experienced commercial real estate agent can simplify the process. Outgrowing your current space isn’t such a bad problem to have, because it means the business is prospering. You’re ready for a commercial facility that’s bigger and better, signifying a bright future. **P**

approval of a zoning change, variance or conditional use permit.

Another factor to consider when buying a property is the potential for environmental hazards, like underground storage tanks or contaminated soil at the site.

“Anytime you’re buying any property, but especially commercial property on busy roads, there’s a potential for some hazards,” Gamlin says. Environmental problems can be costly to correct and can reduce the value of the property when reselling. Gamlin recommends completing a standard environmental hazards contingency form when making an offer to purchase. That way, you can get out of the deal if there are hazards that require expensive or lengthy remediation.

Contingency forms also cover issues related to a property’s title. An attorney or title company can determine whether something in the title could affect ownership for you or buyers in the future.

### Issues with the property title may include:

1. Easements — A legal right to cross or use a property for a specific purpose, like a utility company’s easement to erect power poles.
2. Encroachments — A neighbor’s building, fence, tree or other fixture crosses the property line.
3. Claims against the property — A tax lien or creditor’s lien that needs to be settled before a property sells.
4. Private-use restrictions, also called covenants or agreements — Examples are setbacks that regulate the minimum distance from the street, road or other structures; specific uses are prohibited; the building size and number of buildings are restricted.
5. Past issues with the property’s title.

These issues aren’t necessarily deal-breakers. However, it’s important that buyers are aware of these legalities before closing on the sale.

“This sounds overwhelming,” Gamlin admits. “Buyers think they have to figure out all of this stuff beforehand, but it’s all right to make an offer assuming everything’s OK and have time to get it checked out.”

# Restroom Trailer

## Product Checklist

Having the right products in your arsenal will make your restroom trailer look and smell brand new, boosting your brand image and elevating you over the competition.

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### **BIO-PAK**

#### **Purpose: Deodorizer**

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### **PORTA-PAK**

#### **Purpose: Deodorizer**

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#### **Purpose: Tank Restoration**

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### **FAB LAV**

#### **Purpose: Cleaner**

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### **BRAVO URINAL SCREENS**

#### **Purpose: Fragrance Enhancer**

Keeps urinal smelling fresh for up to 30 days with strong fragrance release and bacteria action that deodorizes & cleans urinal & drain.



### **OVATION**

#### **Purpose: Fragrance Enhancer**

Commercial-strength air fresheners that can be hung anywhere to fight odors for up to 30 days. Ideal for women's side.



### **URINAL CLEANER**

#### **Purpose: Urinal Cleaner**

Spray on urinal to remove calcium deposits, restoring trailer's urinals to like-new condition and eliminating foul odors.



### **BANISH**

#### **Purpose: Graffiti Remover**

Effectively removes markers, paint, pen, grease, tar, crayon, dirt and calcium build-up, improving trailer's appearance.



### **GREY WATER LIQUID**

#### **Purpose: Grey Tank Deodorizer**

Great for shower trailers; controls grey holding tank odors caused by soap scum, skin, saliva, dirt and lint.





# Ohio Septic Inspection Program Reaching More Counties Seven Years Into New Rules

By David Steinkraus

**T**hree counties on Ohio's eastern border are beginning to implement a state requirement that all onsite systems be pumped and inspected and have an operation and maintenance plan.

Mahoning County has until 2025 to bring properties into compliance with the law, reported WKBN of Youngstown, Ohio. Neighboring Trumbull and Columbiana counties are also working on their plans to comply with the state requirement, the station reported.

"It's not that we wanted to wait until the last minute, but we did want to hold back and let other counties take the lead on this. We wanted to see what worked well," said Colton Masters of Mahoning County Public Health, according to WKBN.

Mahoning County knows of about 17,000 onsite systems in the county, and most people with systems will be receiving letters telling them of the new requirement to pump and inspect systems within three years.

According to the Lake County Health Department, the 2015 state rules updated regulations that had been in place since 1977. Property owners must regularly renew their permits to operate onsite systems.

## Michigan

A group of residents in Girard Township have an idea about how to spend money from the American Rescue Plan: help build them a community wastewater systems.

Like many governments in Branch County, Girard Township has not yet decided how to spend its ARP money, reported *The Daily Reporter* of Coldwater.

That's where the people at Neible's Landing come in. There are 34 homes on the north end of Craig Lake, and about half of the owners want to replace their individual onsite systems with a community system located in a cornfield. Terry Reen told the newspaper that farmers have agreed to sell land for the project, and putting the treatment system in the field, and away from the lakeshore, would help reduce water pollution.

"The farther we get away from the lake, the better off we're all going to be. Every house will have its own grinder pump," Reen told the newspaper.

Not all of the system would be paid for with ARP money.

## Montana

Montana State University Extension has produced two new printed guides for well and onsite system owners. Adam Sigler, water quality associate specialist for the extension service, said many onsite system problems can be avoided with proper maintenance, according to the university news service.

The guide describes how systems operate and what records people should keep. Included in the onsite guide is also information about how often to have systems pumped and how to extend the life of a system.

To order copies of the guides, visit the extension service online at [store.msuextension.org](http://store.msuextension.org) or call the MSU Extension Distribution Center at 406-994-3273.

## Washington

Ten years of work after a major lawsuit have led to a cleaner Columbia River and improved onsite systems, said a report from the *Public News Service* in Boulder, Colorado.

The lawsuit against Clark County, which touches the river across from Portland, Oregon, resulted in a penalty of \$3 million, one of the largest citizen-enforcement judgements in state history. The settlement followed a federal court ruling that the county had violated the law for three years. At issue was the county's weaker pollution rules for big box stores and subdivisions. And instead of going to Washington, D.C., penalty money was put in a fund for local salmon habitat restoration, said Jan Hasselman, a Seattle attorney for Earthjustice who worked on the case.

The Clark County Clean Water Restoration Fund paid for 25 projects, including one to repair and replace failing onsite systems. **P**



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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.

# Climate Change Will Impact Our Industry From Coast to Coast

**Be prepared for growing regional precipitation and drought conditions that will change the regulations and design of onsite systems**

By Jim Anderson, Ph.D.

**L**ast summer, some regions of the United States saw excessive rainfall and others excessive drought. Both conditions are attributed in part to changing climate. Models predict rainfall and storm events will intensify and increase in parts of the Midwest and East while in other areas, particularly the Southwest, the climate will become more arid.

Globally, warming is melting polar ice at alarming rates leading to sea water rise along the coasts. Evidence of rising seas is seen in the presence of “ghost forests” where the vegetation is dying because salt water is intruding inland as the ocean rise is killing the trees. This saltwater intrusion is also affecting groundwater levels and water quality. For residents near the coast this can render their well and septic system unusable.

We in the Great Lakes Region and middle of the country might have a tendency to say, “Wow, I sure am glad I live here and do not have to deal with that!” We may not have to deal with saltwater intrusion, but we will have to deal with similar impacts to our septic systems due to increased temperature and rainfall intensity.

## ONSITE AND FLOODPLAINS

What are some of the problems we face due to increased rain events? There is the potential for the flooded systems, reduced treatment efficiencies and reduced ability to accept effluent to the point of system hydraulic failure.

Flooding is one of the most obvious impacts with increased precipitation. Areas previously prone to flooding or ponding may see those flooding periods increase in number, length of time and levels. Most states have standards or requirements for systems installed in floodplains.

In general, they call for not using the system during flood periods and require specific action after the waters recede before the system can be used. The longer the flood persists, the more time the homeowner must deal with not being able to use the system. Standards include pumping tanks and distribution boxes to remove solids and sediment and inspecting system components to determine they remain structurally sound and operating the way they are supposed to.

From a soil treatment area perspective, the field was required to be installed so the bottom of the infiltrative surface was a minimum of 6 inches above the 100-year flood level to ensure sediment did not impact the

➤ Any lakeshore owner will tell you they have to deal with numerous issues when water levels rise in the lake ... What they often do not realize is the impact it may have on their in-ground septic system.

treatment area. With increased flood levels and frequency, this may not be enough protection. Floodplain codes and standards may need to be revised to the point of not allowing residences in the area.

Increased precipitation also results in rising inland lake levels and corresponding groundwater connected with the lakes. Any lakeshore owner will tell you they have to deal with numerous issues when water levels rise in the lake. The immediate ones they see are loss of shoreline area from their lot and increased bank erosion affecting lake water clarity. What they often do not realize is the impact it may have on their in-ground septic system.

When groundwater rises, the separation distance to the infiltrative surface of the soil treatment unit narrows. This distance may be reduced to the point where there is not enough unsaturated soil, with enough oxygen to provide adequate treatment. This can result in greater transport of pathogens, nutrients and biochemical oxygen demand to the groundwater.

## BIOMAT ISSUES

The nutrients and pathogens can move directly to the groundwater and the lake. The nutrients can contribute to increased algal blooms and provide the potential to have public health impacts by direct body contact through swimming or by contaminating nearby wells.

In addition to lack of treatment as the separation distance decreases and oxygen becomes less available in the soil, biomat development will increase. This causes a more resistant biomat, reducing the ability of the system to accept the amount of water delivered from the residence. That leads to hydraulic failure with effluent surfacing in the yard.

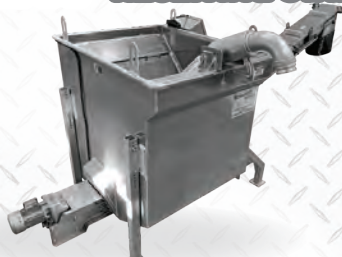
Areas away from lakeshores are similarly affected due to rising groundwater levels and an increase in level and length of time periodic

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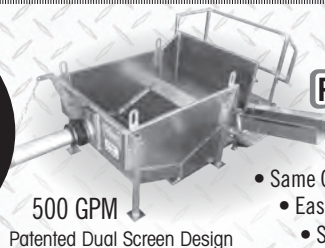
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saturated zones exist in soils. The longer the soil is saturated and the closer it is to the bottom of a soil treatment system, the more it impacts the soil's ability to treat and accept sewage effluent.

Present standards call for minimum separation distances from periodic or perched groundwater areas. Typically, these standards require from two to five feet of separation. These requirements are designed to ensure treatment and to take into account biomat development when determining the size of the system.

As periods of increased temperature and precipitation persist, there may be a need to adjust the standards and recommendations to incorporate anticipated groundwater rise. Permitting authorities could then begin to apply the standards to new or replacement installation of systems to

prepare a gradual transition to what will be a new normal. If we do not anticipate some of these changes, we run the risk of future system failures so numerous they overwhelm our capacity to address them.

**WORKING TOGETHER**

As a final note, one aspect of codes or rules should include the ability to modify and change them as conditions and technology change. This is the time states and other permitting authorities should be consulting with the industry about changes that may be needed to address problems due to climate uncertainty. Fortunately, professional organizations and associations are actively involved in obtaining funding to address the need for improved onsite sewage infrastructure. **P**

# An Aging Wastewater Workforce Points to Future Troubles

The industry needs to find a way to attract a younger generation of workers willing to perform a tough but necessary job



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 Arkansas Onsite Wastewater Association

**Name and title or job description:** Darius E. Melton, president

**Business name and location:** 2M Pumping Service, Hot Springs, Arkansas

**Services we offer:** Primarily septic pumping. We do some inspections but it's limited. We don't have the equipment to chase the lines or that sort of thing. But we're seeing a lot more interest in that, especially with Realtors. With so many houses being bought and sold, that seems to be a big thing right now, at least checking the tanks for dirt, roots, cracks.

**Age:** 52

**Years in the industry:** 10-plus. I got into this on a fluke. I was in the excavating business with my father and brother. There was a power plant job down in Texarkana and I went down there to look for a dirt job. They very politely told me they weren't going to hire me but the guy said, why don't you get your pumping license and I'll let you bid on [a contract to service restroom trailers]. I maneuvered my way through the system, got my license, bid the job, got the job — and then I had 30 days to find a pump truck. The stars all lined up and we've done this ever since, along with the excavating business.

**Association involvement:** I've been a member of the Arkansas Onsite Wastewater Association (ARKOWA) for over five years. They have different segments on the board — installers, pumpers, designers — and I represent the pumpers.

**Benefits of belonging to the association:** It helps us stay on top of the laws that could be changing. A lot of lobbying goes on. It's a big help. Not that you can get a jump on anything but a lot of times you can lobby against some things. In Hot Springs, they were going to raise our dump rates to a nickel a gallon. I was going to turn it over to the board and let them negotiate with the city about that, but then the regulators worked with me one-on-one and we got a deal where they raised it two-and-a-half cents the first year and two-and-a-half cents the second year. The city actually didn't want to deal with the board. But it was definitely a benefit being on the board and being able to mention the board.

**Biggest issue facing your association right now:** There are several. One is the rate hikes on dumping sewage. Another is laws changing faster than we can comprehend. And another thing I think the association is going to see is possibly a downturn in the number of people getting into this business because pumping, installation or any of this is not seen as a desirable business. You can make a good living at it but it's just not one of those glamorous occupations.

**Our crew includes:** My wife Tonya, who dispatches and talks to clients, my mother Eunice Melton, driver David Cannon and part-time driver Nick Dison.

**Typical day on the job:** I see after the day-to-day routines of the business, checking on work, answering phones, bidding work, dealing with clients if there are issues or problems. I still drive occasionally when we're behind or just need to fill in. I do whatever I need to do to make the day more productive for us.

**The job I'll never forget:** When we started, we had a contract with the city of Hot Springs to pump their sludge. One day my wife was riding with me and the valve stuck on the truck. I didn't know any better and I took a hammer to open the valve and let's just say we got sprayed horrifically with the product. She decided she needed to go home and get a shower.

**My favorite piece of equipment:** I like my secondary truck, the backup truck, because if you have an issue with the primary truck you can always go back to the shop and grab the other one and keep the clients happy. We bought our primary truck — the tank new, the truck used — a 2001 Mack with a 3,400-gallon steel tank and Masport pump. Our backup is a 1998 International with a 2,500-gallon steel tank and Juroop pump.

**Most challenging site I've worked on:** There was a government-funded building where they had taken an old hotel and converted it to apartments for people needing rent support. It had been around since the late 1930s or early 1940s. We got a call one afternoon that it had flooded. They had turned the water and sewer off but couldn't work in the basement to do the plumbing patches or whatever needed because the basement had flooded. We didn't know what we were up against. We called the city and got approval to dump at night. Then we got in there and got to pumping. We figured out, by watching the water level, that the floor was poured on a percentage of fall. We saw where the fall was going and that's where we set up our hoses. We worked all night. We got 90% of that water out of there. They did have a sewage line break so there was sewage in it. It was nasty. We had our rubber clothes on, boots, everything duct taped.

(continued)

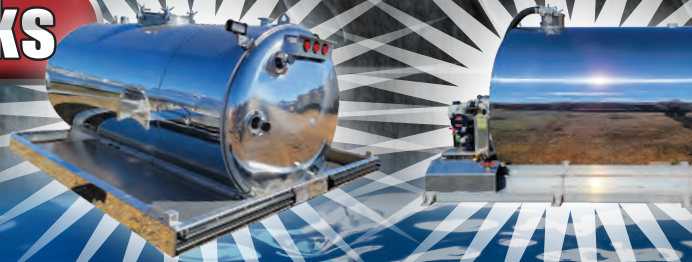
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### Inspector Training

#### NAWT Inspector by CPOW

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Contact: Lisa Nicoll cpow@cpow.net

#### NAWT Inspector by RETS

December 9-10, 2022

Location: San Marcos, TX

Contact: Lauren Trujillo  
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#### NAWT Soils by CPOW

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Contact: Lisa Nicoll cpow@cpow.net

#### NAWT Soils by CPOW

August 30-31, 2022

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From left are Nick Dison, David Cannon, Tonya Philips Melton, Eunice Melton and Darius E. Melton. Melton's 2001 Mack carries a 3,400-gallon steel tank and Masport pump.

When it happened again about three months later we were more prepared.

**Oops, I wish I could take this one back:** We did a big commercial job and the customer wouldn't pay us. We're still battling with him in court. He felt like it was too much. I said, "You should have been there, is all I can tell you."

**The craziest question I've been asked by a customer:** "How did that get in my septic tank?" One of the most unusual things — and we still don't know how it got in there — was a baseball. It was at a little residential store. The truck just quit pumping so we took the hose out and there it was.

**If I could change one industry regulation, it would be:** Right now they don't require a monitoring meter on the trucks — how much product is put on and how much is taken off at the dump facilities. They just go by an estimated amount of what your tank is. I really think — to be on the beneficial side of everybody — there should be flow meters and you should pay off that and be able to charge from that.

**Best piece of small business advice I've heard:** Treat your customers how you would want to be treated. And: When you're on the job, go that extra mile. Believe me, they'll tell their friends, their neighbors. We don't advertise and we stay extremely busy.

**If I wasn't working in the wastewater industry, I would:** The only other thing I've had an interest in is farming. We have a big farm that's been in our family since 1904. It was homesteaded by my great uncle. We don't run cattle any longer, we just grow hay on it. But if there was a way to make a living with cattle, that would be great. It's just not feasible but that would be my dream job.

**Crystal ball time — This is my outlook for the wastewater industry:** My outlook is kind of grim. This is not a glamorous business and it's one that you have to work hard and I'm afraid young people are not going to be interested. But there is money to be made at this. The thing I figured out very quickly is you can't rely solely on residential, you've also got to do commercial. And if you do commercial you've got to understand there are certain things you can and can't do. The inspectors and treatment plant guys here have been more than willing to help us with that. A lot of this is self-taught. You've just got to use common sense and move forward. **P**

- Compiled by Betty Dageforde

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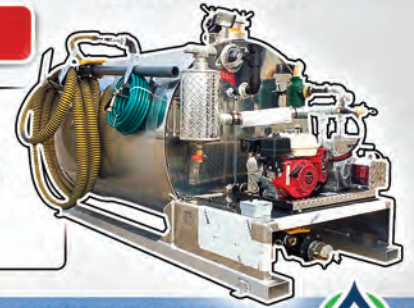
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www.mapss.org

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Michigan Septic Tank Association  
www.msta.biz; 989-808-8648

## Minnesota

Minnesota Onsite Wastewater Association  
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## Mississippi

Mississippi Pumpers Association  
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## Missouri

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www.mosmallflows.org  
417-631-4027

## Nebraska

Nebraska On-site Waste Water Association  
www.nowwa.org; 402-476-0162

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New Hampshire Association of Septage Haulers  
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Professional Onsite Wastewater Reuse Association of New Mexico  
www.powranm.org; 505-989-7676

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www.lilwa.org; 631-585-0448

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North Carolina Septic Tank Association  
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Oklahoma Onsite Wastewater Association  
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## Tennessee

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**J**on and Cody Houseknecht added a 2012 Kenworth T660 converted box truck carrying a 3,500-gallon Du-Mar Welding steel tank and Jurop pump. The truck is powered by a PACCAR 455 hp engine tied to a 10-speed Eaton Fuller transmission. The truck was assembled at Sunset Septic, with 4 feet cut off the frame for tank installation. Pik Rite provided aluminum side trays and a back splash plate with the company name stamped out and lighted. Features include a 3-inch inlet and 6-inch dump valves, a 6-inch drop in the tank — front to back, sight tube and rear sight glasses, and a 24-inch rear manway. Interior features include AC, cruise control, stereo and air-ride seats. Graphics were created in-house by Gale Houseknecht. Jon and Cody are the drivers and the truck is used for residential pumping. **P**

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**Got a truck with real WOW appeal? Show it off to Pumper readers!**

Send photos of your vacuum truck after it has been lettered with your company name. Please limit your submission to one truck only.

Your Classy Truck submission must include your name, company name, mailing address, phone number, and details about the truck, including tank size, cab/chassis information, pump information, the company that built the truck, and any other details you consider important. In particular, tell us what features of the truck help make your work life more efficient and more profitable. Email your materials to [editor@pumper.com](mailto:editor@pumper.com) or mail to Editor, *Pumper*, P.O. Box 220, Three Lakes, WI 54562.

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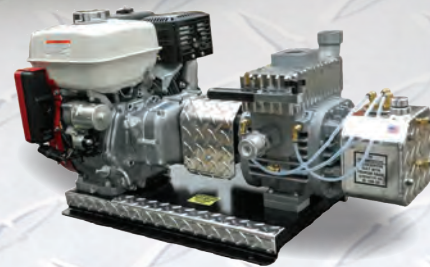
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## BLOWER SMOKES OUT SEPTIC SYSTEM FAULTS

*in the*  
**SPOTLIGHT**  
By Tim Dobbins

The original Smoke Blowers and Smoke Candles from Superior Signal were used primarily for testing mainline sewers. From there, the company saw the need to examine building plumbing and septic systems using the same methods.

So the company developed the 5E Electric Blower, which can be used to find leaks and faults in septic systems and, in many cases, leachfields. "It is a quick and easy way to locate sources of odors or problems with the septic system or plumbing in the house after pumping out the septic tank," says Helen Kovacs, director of marketing at Superior Signal.

The 5E is set up near a cleanout or the opening to a septic tank. Smoke is pushed by the blower through the hose into the septic system and once the septic tank is full of smoke, the smoke will travel through the plumbing beyond and escape through roof vents.

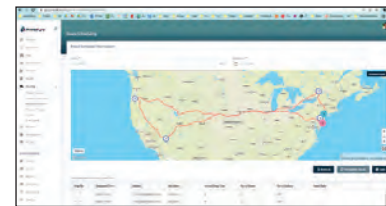
Smoke is produced by Superior Smoke Candles, which create a highly visible and nontoxic smoke for easy and safe leak detection. The smoke test also gives a clear visual to the source of unwanted odors from septic system and leachfields.

"Walk through the house, building, or around the septic system to observe any areas where smoke is appearing," Kovacs says. "Anywhere smoke is escaping from the plumbing or septic system, other than through the roof vents, is evidence of a leak or fault."

The blower can be run using 120-volt AC or 12-volt DC power and is capable of 180 cfm. The static pressure is 0.59 inches of water when on 120-volt AC and 1.3 inches of water when operating on 12-volt DC. The all-steel unit was engineered for durability. Over the years, a few small component upgrades have been made to improve the longevity of the 5E. These include a 4-inch-diameter, 8-foot-long flexible industrial-grade hose and stainless steel handle.

"With a total weight of only 15 pounds with the hose attached, the 5E is made to handle big or small jobs," Kovacs says. "Contractors appreciate that the unit is lightweight, durable, easy-to-use and most of all, effective."  
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PrimeFyre is designed to be an easy-to-use, standalone, cloud-based, business management service that also offers a technician/driver mobile app for on-site work order management. PrimeFyre's key features include customer records management, automated service and recurring job reminders, inventory and asset management (supporting both QR and traditional barcodes), route recommendation, optimization and dispatching. It also comes with a suite of accounting, invoicing and integrated credit card processing tools. Additional features for the liquid and solid waste industry include roll-off container inventory management, inactivity fee dynamic billing, step-rate pricing that handles flat and additional per ton or gallon overages, deliveries, pickups, exchanges and services and waste tracking. PrimeFyre also offers geocoordinates for ease of future services, and users can attach schematics, pictures, and documents for each location. **609-904-9434; www.primefyre.com P**

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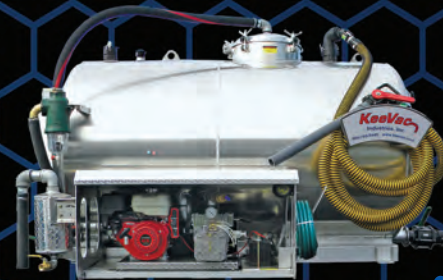
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### Volvo's electric truck tested for energy efficiency

The first independent energy efficiency test with a fully loaded heavy-duty electric Volvo truck has been completed in Germany. The electric truck exceeded its official range, using 50% less energy than its diesel counterpart, according to Volvo. The tested truck was a Volvo FH Electric, a zero-exhaust emission vehicle with 490 kW of continuous power and a gross combination weight of 88,185 pounds. The truck was tested on a 213-mile route including a variety of motorways, hilly terrains and tighter roads that is used for testing different manufacturers' trucks in a wide range of conditions. Volvo Trucks' goal is for electric vehicles to account for half of its truck sales in 2030 and in 2040, and 100% well-to-wheel-based CO2-reduction for new trucks sold.



certification as a fabricator and distributor of industrial hose, hose assemblies and industrial rubber products. Also, the company redesigned its website detailing available hose products and assemblies.

### J&J Portable Sanitation announces new manager, location



Jan Anderson



J&J Portable Sanitation Products named Jan Anderson as its new Midwest area manager. The company also opened its new central portable restroom warehouse in Kenosha, Wisconsin. The facility provides space to increase the inventory of its Echo portable restrooms and provides direct shipping to customers.



Julian Atchia

### SJE's Julian Atchia joins Hydraulic Institute board

Julian Atchia, vice president of research and development for SJE was selected to serve as a Hydraulic Institute board member. He and two other new members began three-year terms at the Hydraulic Institute Annual Conference in Orlando, Florida, in March. Board members are responsible for maintaining

the missions, goals and key strategies of the Institute; ensuring adequate financial, staff and volunteer resources; and providing leadership support to key committees to accomplish Institute goals.

### Infiltrator using DeltaMax technology for septic chambers

Infiltrator Water Technologies has adopted DeltaMax technology from Milliken & Company's chemical business. According to Milliken & Company, Infiltrator is using DeltaMax Performance Modifier to optimize the quality and performance of recycled polypropylene used to injection-mold its Quick4 Series of septic chambers.

### Virginia Rubber Corp. Founder Harry Ronald Selfe Dies at 86

Harry Ronald Selfe of Clifton, Virginia, founder of Virginia Rubber Corp., died at Arden Courts Memory Care unit Jan. 14, 2022, at the age of 86.

Selfe began his career in the industry as a salesman at Industrial Rubber in Maryland. In June of 1974, he left Industrial Rubber to form Virginia Rubber Corp. (VARCo), selling industrial hose and supplies. Working with two salesmen, he grew the business and interacted with many vendors, creating long-lasting relationships that survive today.

When his son Ron took over in 2007, Selfe came to work daily, attending the pumper trade shows and meeting with vendors. As his memory declined and the business grew, he would still come to work daily, helping out as best he could. Cars and biking were his passions and he spent much of his time with his beloved employees talking about them.

He is survived by his wife Judy, sons Ron and Brian, Brian's wife Andy, and granddaughter Tori. **P**

### Vac-Con announces CMI Equipment as new dealer

CMI Equipment has been added to the Vac-Con dealer network. The distributorship will provide sales, parts and service support to customers located in Tennessee. For more than three decades, CMI Equipment has provided equipment for cities, counties and road departments in the state. CMI will offer the full portfolio of Vac-Con machines including combination sewer cleaners, jetters and hydro-excavators in both trailer and truck-mounted configurations.



Chris Wilson

### Vacuum Truck Rentals welcomes new branch manager

Vacuum Truck Rentals named Chris Wilson as the new branch manager of its Merrillville, Indiana location. He will oversee the rentals and sales operations of the Indiana location. VTR has a fleet of more than 800 trucks and 17 locations nationwide.

### Abbott Rubber moves to new facility

Abbott Rubber has moved to a new 112,000-square-foot facility in Itasca, Illinois, in the Northwest suburbs of Chicago. The company celebrated its 70th year in the hose industry in 2021. Earlier in the year it also achieved ISO 9001:2015



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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 utilize 4 mil permanent adhesive vinyl and UV fade-resistant inks for applications such as portable restrooms, restroom trailers, hand sanitizer stands and outdoor sinks. They come in a variety of stock UV inks, but can also be printed with any custom Pantone match. Decals can be cut to any size or shape. A UV clearcoat or lamination adds extra protection against the elements. Options and adhesives are available using existing logos or having new designs made. **800-829-3021; www.roeda.com**



## GRAFFITI REMOVAL



### Century Chemical Graffiti Wipes

**Graffiti Wipes** from **Century Chemical** are designed for fast, easy cleanup of ink from nonporous surfaces. The abrasive, yet non-scratching fabric can be used on a variety of surfaces, including portable restrooms, showers, partitions and hand-wash stations. They are premoistened with an environmentally safe and biodegradable cleaning formula that removes paints, enamel, ink and permanent marker with a few swipes, according to the maker. Each case contains six canisters, with each canister holding 70 wipes

that are 9 1/2-by 12 inches. **800-348-3505; www.centurychemical.com**

### PolyJohn PRO's Choice Liquid Graffiti Remover

**PRO's Choice Liquid Graffiti Remover** from **PolyJohn** is formulated to remove paints, inks, crayons, lipstick and other marks from portable sanitation equipment. It may be used on most surfaces including brick, glass,



ceramic tile, porcelain, marble, ceramic, Formica, terrazzo, enamels, brass, aluminum, steel, chrome, vinyl, painted and others. The product is sprayed on the surface and wiped off. **800-292-1305; www.polyjohn.com**

## HAND SANITIZERS



### Satellite Industries hand sanitizer

**Satellite Industries** offers hand sanitizers and sanitizer refills that provide an economical way to maintain restrooms, hand-wash stations and sanitizer stands, all while making sure customers keep their hands free of germ and bacteria. Not only can they be bought in bulk, refills are available in both 800- or 1,000-ml sizes and are made to fit Satellite's universal dispenser. It is FDA approved, so if larger quantities are needed, you won't sacrifice in quality. The bulk sanitizer option also works with Satellite's 800-ml and 1,000-ml refillable bags. **800-883-1123; www.satelliteindustries.com**

## LIGHTING

### LunarGlo solar lights

**LunarGlo** solar lights are designed to improve the user experience and make units easier to clean after dark. Life expectancy is 3-5 years. Lights provide consistent brightness from dusk to dawn and the ability to take a pressure washing day after day with no impact on the performance. **574-294-2624; www.lunarglo.com**



### Solar LED Innovations Solar Pod Lights

**Solar Pod Lights** from **Solar LED Innovations** are available in three versions providing 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 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

### 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. They are waterproof, available in three fragrances and come with 72 individually wrapped straps per case. **412-789-8683; www.surco.com**





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RTD130-160	32.0	121.1	2300	160	50.5	36	42	3	128
RTD130-200H	34.5	115.0	2900	200	68.0	36	42	3	128
RTD160-130	40.0	151.4	1850	130	50.8	40	42	3	128

SX - 180° Rotated Shaft Configuration  
H - Nickel Plated

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1" - Inlet Thread  
1/2" - Discharge Thread  
76 oz - Oil Capacity

**RTD 1450 RPM N VERSION 30 X 80MM SOLID SHAFT**

MODEL	MAX GPM	MAX L/MIN	MAX PSI	MAX BAR	POWER EBHP	BORE DIA MM	STROKE MM	CRANKSHAFT ID STAMP	WEIGHT LBS.
RTX30	8.0	30.3	4350	300	23.9	20	23	3	72
RTX50	12.0	45.4	4350	300	35.8	25	23	3	72
RTX60	14.0	53.0	4350	300	41.8	25	28	1	72
RTX70	17.0	64.4	3000	200	33.8	30	23	3	72
RTX85	21.0	85.0	2200	200	31.7	30	28	1	72
RTX-HW85.150N*	21.0	85.0	2200	200	31.7	36	23	1	72
RTX100	24.0	90.8	1800	124	29.8	36	23	3	72
RTX150	39.6	150	1450	100	36.2	40	28	1	72

\*HW - includes Hot Water Kit

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## Walex Bio-Pak

Walex's Bio-Pak is a natural drop-in deodorizer that uses natural enzymes to eliminate odors. The product can also reduce mounding in restroom trailer and portable restroom holding tanks. The packets are designed to be mess-free and dissolve quickly when placed into liquid. Each bag comes with 50 pre-portioned sachets to provide about one week of odor control depending on the usage and climate. It is biodegradable, non-staining, biocide-free, formaldehyde-free and California-compliant. The formula is able to break down paper, eliminating the need for special toilet papers. It digests built-up waste on tank walls and sensors that are a common source of odors in portable restrooms even after pumping the tank, according to the maker. **800-338-3155; www.walex.com**

### PORTABLE RESTROOMS

## J&J Portable Sanitation Products Echo

The durable 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 built-in handgrips for easy moving. **800-345-3303; www.jjportable.com**



## NuConcepts-Very Impressive Portables VIP

The VIP from NuConcepts-Very Impressive Portables uses extruded aluminum structural elements, polyethylene walls and sun-strong fiberglass doors. It is solar-powered and self-contained; and has a flushable porcelain toilet, sink with auto-off faucet, LED interior lights, exterior in-use light, power roof vent, acrylic mirror and rotocast tanks. Options include air conditioning (requiring 110 volts), interior heating, winterizing package, water heater, city water connections, dump valves and an upgraded countertop. **800-334-1065; www.nuconcepts.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**



## 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 MOVERS

## Deal Assoc. Super Mongo Mover

The Super Mongo Mover hand truck from Deal Assoc. easily tips back and moves portable restrooms, and can carry full-size ADA handicap restrooms. The tall frame provides leverage so even smaller service technicians can move restrooms by themselves safely and easily. The alloy aluminum and steel frame is lightweight and strong, and only anodized aluminum touches the restroom body to prevent rust-staining. It is available with four, six or eight wheels with either pneumatic tires or flat-free foam tires. **336-599-3325; www.dealassoc.com**



### PORTABLE SINKS



## 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 unit is easily installed inside portable restrooms and has a 7.5-gallon freshwater capacity. It is available in gray. **866-873-7796; www.armal.biz**

### PRESSURE WASHERS AND SPRAYERS

## Cam Spray MCB3040

The MCB3040 skid-mount, hot-water pressure washer from Cam Spray is designed to move easily from truck to van to trailer. It offers 4 gpm at 3,000 psi from a Honda GX390 industrial gas engine and triplex plunger pump with ceramic plungers and stainless steel valves. It is equipped with low-pressure chemical injection and is protected by an unloader valve and secondary pressure pop-off. The burner system includes a rust-free fuel tank, Schedule 80 coil with stainless steel wrap, is controlled by an adjustable thermostat and temperature limit switch for a maximum temperature of 195 degrees F. The frame is constructed using industrial coated 2-inch tubing and comes equipped with a wand/hose rack. A heavy-duty trigger gun with a dual wand and side handle valve allows switching from high pressure cleaning to detergent application and is equipped with quick change 0-, 15-, 25- and 40-degree nozzles. **800-648-5011; www.camspray.com**



### 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. The 12- by 8-foot



three-station unit is equipped with fold-down steps and pipe-mount leveling jacks for easy setup. This unit 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**



**JAG Mobile Solutions Safety Cartridge Stair**

The **Safety Cartridge Stair** trailer egress system from **JAG Mobile Solutions** incorporates high-strength extruded aluminum into its design, making it 22% lighter than when the patent was originally

awarded in 2019. The design includes integrated low-maintenance anti-slip surface on the steps. Lighter weight means that setup is a one-person job. Safe deployment takes seconds, maximizing labor efficiency while enhancing employee and patron safety. **800-815-2557; www.jagmobilesolutions.com**

**Rich Specialty Trailers Neptune Anti-Virus**

The **Neptune Anti-Virus** restroom trailer from **Rich Specialty Trailers** is built with permanent interior walls that 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 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. Male and female 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 can carry 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 cubic feet per minute, 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** has equal weight distribution of the sidewinder tank designed to extend



brake life and improve handling. The two food-grade poly water tanks are plumbed to carry brine, fresh water, pre-mix or any combination of fluids. The ergonomically designed workstation has more than 60 cubic feet of storage space and minimizes restocking and driver movement. It carries up to four restrooms. An E-track load securement system eliminates the need for ropes. Its modular design allows components to be easily replaced or transferred if damaged. The entire vacuum system is plumbed using hot-tar hose and Masport components. Marine-style wiring is used, and all of the electrical systems are contained in a watertight panel with automatic reset circuit breakers. **800-927-8750; www.fmitrucks.com**

(continued)



**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 offers 700 gallons of waste capacity and 300 gallons of freshwater capacity. In addition, 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 portable restroom 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 650-gallon tank, flatbed and liftgate. The tank has a 400-gallon waste compartment and internal 250-gallon freshwater compartment

for even weight distribution. The truck includes 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**

**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 is set up standard with 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**



**Lang Specialty Trailers shower trailers**

In light of the pandemic, shower and restroom trailers from **Lang Specialty Trailers** have available private cabins to protect users from contagious disease transmission.

They are built on a steel frame, with composite interior walls, exterior walls, subfloors and ceilings for durability and easy cleaning. All trailers come equipped with on-demand hot water. Trailer designs and floor plans work well for special events, disaster relief, oil field work, coal mines, forest fires, military and beach access, according to the maker. **724-972-6590; www.langrestroomtrailers.com**

**SLIDE-INS**

**TankTec slide-in tank**

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



**TRANSPORT TRAILERS**



**Ameri-Can Engineering Toter**

Toter portable restroom transport trailers from **Ameri-Can Engineering** are available in lengths of 16 to 40 feet and carrying up to 20 restrooms. A drop bar enables transport of large units, such as ADA-compliant and handicapped-accessible units. An easy-load design saves time, and trailers are made of steel for strength and years of dependable service, according to the manufacturer. **574-892-5151; www.ameri-can.com**

**F.M. Manufacturing 30-foot trailer**

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





### 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**



### 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**



### 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**

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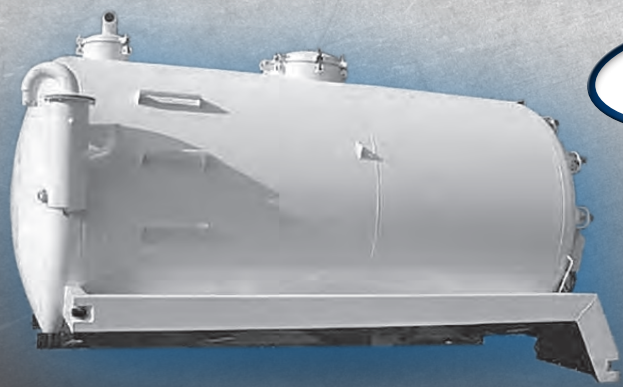
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# Pumper

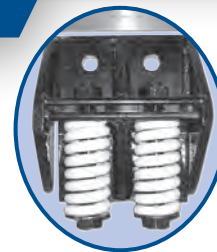
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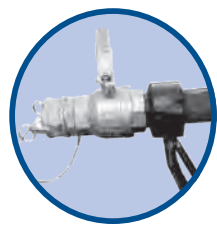
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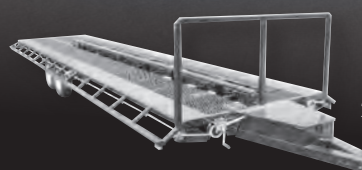
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For Sale: Multi-generation Family Owned Business. Located in Eastern Massachusetts. Services include Pumping and Drain cleaning. Real Estate available to lease and not included in sale of business. Operational equipment included in Sale. Send email to [sewer12@yahoo.com](mailto:sewer12@yahoo.com) (PBM)

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POWERVAC 3800. 3,600 U.S. gallon, carbon steel Vacuum tanker with a Hibon PD blower 3800 SCFM with vacuum to 28" mercury. High Dump Type; D.O.T. 407/412 regulations. Stock# 6855V [www.vacuumsalesinc.com](http://www.vacuumsalesinc.com)  
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2009 Peterbilt 340 cab & chassis with a Presvac 3,200 U.S. gallon, C/S, D.O.T. 412, dump type, vacuum tank and a Presvac PV750 pump. (Stock #8412C).  
[www.vacuumsalesinc.com](http://www.vacuumsalesinc.com)  
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1997 Ford with Cusco 3,200-gallon DOT certified dump and door liquid vacuum truck. Cat engine with Moro M9 vacuum pump. Runs and pumps excellent. \$37,500. KLM Companies 617-909-9044 (PBM)

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## HYDROEXCAVATION EQUIPMENT



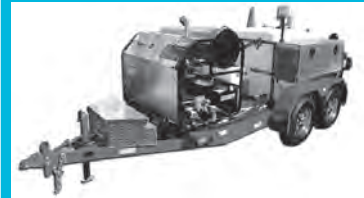
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1999 Harben 4016-300 Jet Trailer (Stock #200SC) **(888)VAC-UNIT (822-8648)**  
[www.vsi-rentals.com](http://www.vsi-rentals.com). (PBM)

## JETTERS - TRUCK



**2015 Freightliner 114SD** combination sewer jetter truck Miles: 86,910 on odometer Hours: 5,429 on meter VIN: 1FVHG3CY3FHGH9258 Engine Cummins ISL9 370 Serial: 73691658 Displacement: 8.9L Cylinders: 6 Fuel type: Diesel HP: 370 Transmission Allison Automatic Chassis Axles: Tandem Suspension: Spring Brakes: Air GVWR: 60,000 lbs Wheelbase: 256" Interior AC, Heat Cruise control Auxiliary controls Operational Tank bed 2015 Super Products Camel 1200 Serial: 14962009 Capacity: 1,500 gallons Water pump PSI: 3000 GPM: 100 Vacuum pump Roots CFM: 3600 to 5500 Hose reel Front Hydraulic Diameter: 1" Length: 1,000' Telescopic boom Diameter: 8" Length: 8' Spoils tank: 12 cu. yd. Tires Front: 425/65R22.5 Rear: 11R22.5 Brand: Falken Maintenance records available upon request Oklahoma title This item will sell to the highest bidder regardless of the price on April 7 at [www.purplewave.com](http://www.purplewave.com) (item #DK3500) or call 866-608-9283 (P04)

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**www.vacuumsalesinc.com (888)VAC-UNIT (822-8648). (PBM)**

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2000 Sterling Jet/Vac. 80 GPM water pump. Hlbbon Blower. 1,500-gal fresh water tanks (2). Exceptionally maintained. Runs great. 40,000.00. Call Glenn: 978-375-6047. (P05)

2002 International 7400. Pre-owned Vactor 2100 combination jet/vac unit with PD blower And 10 cubic yard debris tank. Mounted on a 2002 International 7400 cab & chassis. Stock # 1138C. \$59,000.00

**www.vacuumsalesinc.com (888)VAC-UNIT (822-8648). (PBM)**

## LEASE/FINANCING

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## MISCELLANEOUS

5,000-gallon Pik Rite Truck Mound Tank (used). Complete with HML 400 W Massport Pump and gearox. Site glasses and all man way's. \$11,500. Also pumps for sale. Moro PN (new) \$1,300. Passport HML 400 W and gearbox (used) \$1,600. John@724-785-5892. (P04)

## PARTS & COMPONENTS



**Clear the Main Line with ease,** JnA Main Line Vac. Just hook the line vac to your hose, insert the incoming mainline pipe and watch the line come clean. Works on 3" & 4" pipe. Free shipping in the US. \$139.99. **Order at jnamainlinevac.com. 919-559-9344. (PBM)**

## PORTABLE RESTROOM

20+ NEW/Like new satellite TAG 2 hand wash stations. Bought too many during the start of pandemic. \$400 each, buy pays shipping, Greenville, SC. Jesse@A1transfer-inc.com. (P04)

Construction toilets Polylift 30-40 units and Axxis 50+ and ADA Toilets + Safety Barriers. 347-722-4465. Mickel@rentathrone.com (P06)

## PORTABLE RESTROOM TRAILERS

2021 Comforts of Home 12' long black restroom trailer. Stall and urinal on men's side and stall on women's with vanity in both. Self contained water supply. Located in southern Wisconsin. \$32,000. Contact Marc @ 608-444-3361 (P04)

2001 Keith Huber International pump truck. 2 Decons, 28' Tonto, 18' Royal, 2001 ASCI, 16' Presidential, 26' Presidential, portable toilet hauler trailers. 315-437-1291, NY (PBM)

## PORTABLE RESTROOM TRUCKS



**2003 Ford F-350 4x4 6.0 diesel** 236,000 miles. 650? Waste/175? Fresh jurop pump/pony motor. **\$25,000. Contact Tony 256-310-4714. (P04)**

New Imperial 1,300 U.S. gallon, portable toilet service unit mounted on a 2022 Ram 5500 cab & chassis with a Masport HXL4V pump package. Stock# 14033. **www.VacuumSalesInc.com (888) VAC-UNIT (822-8648). (PBM)**

2004 INTERNATIONAL 4300. GREAT CONDITION. \$36,000. Located in Alabama. Please contact Ashton Parrish at 334-389-7775 for more info and pictures. (P04)

2007 GMC 5500W. 5.2L Diesel. 165,600 Miles. Masport pump. 750 waste/250 fresh. Steel tank. Truck is work ready. \$15,000. 706-798-8080 OR email info@budgetsewerservice.com (P04)

2006 Ford F550, 220K miles, 1100/400 waste/fresh. Masport pump, route ready. contact Nick 909-213-7496 or nicolasmanary@gmail.com for pictures and more information. Asking \$25,000 obo. (P04)

2005 FREIGHTLINER M2, Excellent condition, around 230,000 miles. \$40,000. Please contact Ashton Parrish at 334-389-7775 for pictures and additional info! (P04)

New Imperial 1300 U.S. gallon, portable toilet service unit mounted on a 2022 Ford F550 cab and chassis with a Masport HXL4 pump package. Stock # 14029. **www.VacuumSalesInc.com (888) VAC-UNIT (822-8648). (PBM)**

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We are looking for someone who can DRIVE A PUMP TRUCK, PUMP TANKS, AND DUMP AT JEA. The driver must have a CDL Class B, Airbrakes, Tankers Endorsement, and Six Months Experience Pumping Septic Tanks. Contact Ross at 904-600-0707 or jaxdrainfield@gmail.com. (P04)

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## RENTAL EQUIPMENT

2022 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.vsirentalillc.com. (PBM)**

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## SEPTIC TRUCKS



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**09 Mack, 460h.p.** 10spd, jake, AC, cruise, heavy axles, camelback susp, New 3600 gal tank, stainless hoes trays, Jurop R260 vac pump, drive tires. Very clean great running truck with all new equipment. \$89k Call Hulls Truck Bodies at **740-820-5338. Financing and Delivery Options Available. (P04)**



**2003 FI 70 Freightliner** asking \$15,000. **John 585-392-8611. (P04)**



**1995 Mack TR Pump Truck** 3,600-gallon tank. 400 CFM Masport Pump. Cab needs transmission. Tank and pump are in working condition. \$20,000.00. R & D Associates of Pembroke, INC. Phone: **910-734-1759 Email: r\_and\_d\_waste@yahoo.com (P04)**



**2002 Freightliner.** Cummins ISB. 310k miles. auto trans, a/c, cruise, 1,000/500 Keith Huber tank, 2 pot carriers, Masport HXL4 vac-pump, DC-10 washdown pump. New: tires, and paint. Extremely nice set up. Runs and drives great. \$37,000 Delivery and Financing Options Available. **Call Hulls Truck Bodies LLC at 740-820-5338. (P04)**



**Mack MD6 26k.** 2,100-Gallon steel tank. JUROP R260. **Ray Jackson at 501-388-9565. (P04)**



**2007 International Paystar 5600:** 187,000 miles. Professionally maintained. 430 hp C-13 CAT, w/ Jake Brake, Allison automatic, 20,000# front axle, 46,000# locking rears, rear air suspension, recent tires all around. 4,000-gallon Transway tank with aluminum tank protectors, stainless steel hose trays, 3" side valve, 3" rear valve and 4" dump valve. All valves have stainless steel heated collars. 1,200 Transway/Fruitland pump (650cfm) approx. 120' of 3" suction hose. Truck has all maintenance records. Serviced approx. every 300Hrs. Truck has been working everyday until new truck came in. This truck is ready to go to work today. **\$60,000 Portsmouth NH 603-436-0315 / Chris-Co@comcast.net (P04)**



**2014 Ford F-550.** Diesel. Automatic. 4WD. New aluminum back tank. 300 waste/250 water. HXL2 Masport pump washdown system. CO. **Call JR @ 720-253-8014. (PBM)**



**2005 Kenworth T800.** 212K miles. 20 Front Axle 46 Rear axle. Cat C-15 475HP. 8LL 10-speed. TRANSWAY tank. 4,000 Waste 200 Fresh. Dump Tank Full Open Rear Door. Jetter. New Hose Trays. TRANSWAY 900CFM pump. **\$80,000. Email:shoresepticservice@gmail.com (P04)**



**This is a everyday working, in great condition** 2009 Kenworth W-900 w/ Eaton 13-speed high/low. Very strong, infrared last year 800k miles on chassis w/ 3,800-gal aluminum tank. Masport vac pump. Comes with hoses ready to work, 80% rubber- I'd trust this truck to drive anywhere- A/C, heat everything works. **78k obo Call me at 281-852-9517 (P04)**



**This is a nice setup - 1996 Kenworth** w/ a 3126 cat motor and 10-speed Eaton Fuller transmission. 377k miles currently pulls great and pumps great, 80% tires just recently maintenance- runs to dump daily. 6,400-gallon tanker trailer in great condition- 52k comes with 2-hoses. I have 3 tanker trailers for sale @ 12,500 each separate from this, **call me 281-852-9517. (P04)**



**2013 FL M2.** Cummins 240 hp. Auto air. Under CDL. Waste 1,000-gal/water 400-gal. Masport HXL 75 back pump. DC10 water pump. 2-unit carrier. **Call JR @ 720-253-8014. CO (PBM)**



**2008 Peterbilt,** 8.3 Paccar, 282k, Allison Auto, AC, cruise, 26000 gvw, 1000 waste, 600 fresh, New Jurop PN58 vac-pump, pot rack, new paint. Runs and drives great. **\$35k. Financing and Delivery Options Available. Call Hull's Truck Bodies LLC at 740-820-5338. (P04)**



**2004 International 440 DT 466.** 210,866 miles. Second owner. Tank is Progressive, aluminum, 2,500-gallons. Fruitland 500 Pump. \$70,000 (includes 150ft hose & inspection camera - 200 ft fiber optic cable on reel). Truck can be sold without camera for **\$65,000. 719-666-2553. (P04)**



**2012 Peterbilt 337.** 33,000 gvw. 193,000 miles. Second owner. Paccar PX7, 10-speed transmission, air ride rear. Tank is Best Enterprises, stainless steel, 2,250-gallons including 250 for wash down. Equipped with the hot water wash down option, Masport pump **\$95,000. 512-853-0409 (P04)**



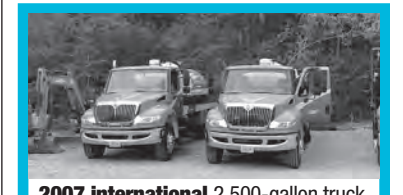
**2019 Freightliner,** 525hp, Detroit, 165k miles, 10-speed trans, jake, a/c, cruise, pw, pdl, New 3600 gal tank, stainless hose trays, and Jurop RV360 vac-pump. Excellent truck with all new equipment. \$109,000 Call Hulls Truck Bodies LLC at **740-820-5338. Financing and Delivery Options Available. (P04)**

2012 KW T-800 ISX 15 Cummins. 10-Speed 5,000-gallon steel tank. 12k drop axle heavy specs. On board jetter. 423k miles. NVE 866 Challenger. Call 951-830-5946 for info. \$70,000. (P04)

New 4,000 U.S. gallon, aluminum, vacuum tank. Mounted on a 2022 Peterbilt 348 cab and chassis w/ a NVE Challenger 887 vacuum pressure pump package. Stock #14006 **(888)VAC-UNIT (822-8648) www.vsi rentalsllc.com. (PBM)**



**1998 Freightliner** 3,800-gallon waste tank with Jetter. We use this truck a few days a week. **\$12,500. Call Andrew 561-302-7195. (P04)**



**2007 international** 2,500-gallon truck. 250,000 miles. New rebuilt engine dt466. Automatic 6-speed. New liquid cooled how 400 masport. Tool boxes. **Excellent condition. New tires. 423-421-4347. (P10)**

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)

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)

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)**

2001 Freightliner C-120 cab & chassis with a 2006 Presvac 3,200 U.S. gallon, C/S, dump type unit with a Presvac PV750 pump. (Stock #0480C). **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648). (PBM)**



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

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## TANKS



**2009 Almac vacuum tank.** 3,900-gal full lift rear open door. No pump or blower. **Email for more pic BANDSIND@COMCAST.NET 540-309-4973 Roanoke, VA. \$10,500. (P04)**

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**2006 Keith Huber 4,200-Gal.** Dominator dump tank with full opening door, and Wittig RFL-100 vacuum pump. Very good shape. **\$17,000.00 OBO. Phone calls ONLY! Do NOT text. Call Henry 484-764-6351. (P04)**



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## TRAILERS-VACUUM/TANKER



**In stock, 6000- and 6300-gallon** aluminum single-compartment Imperial vacuum trailers. **Call Cory 800-558-2945 Ext. 426 (PBM)**

## TRUCKS (DUMP, SEPTIC, MISC.)



**2006 Freightliner.** 10-speed manual transmission. Serial number for the pump is H40078, vacuum pump year 2004, 4,000 aluminum tank, chassis really great but tank and pump need work. Offer for sale at \$45,000.00 obo by Cloud 9 Services, Inc. **contact Curtis Walker at 407-481-2750 or cwalker@cloud9services.com (P04)**



**2006 Ford F550.** 8-6 liter Turbo charged. Diesel. Automatic. Under CDL .AC/Cruise. 1,600-gallon steel tank. Jurup vacuum pump. In 2021 replaced fuel pump, starter, full back brakes .279,500miles. **\$40,000. 417-372-7631. Nickorsandy@gmail.com. (P04)**



**2002 International Paystar Sewer Jetter/ Industrial Vac truck.** N-14 Cummins 460 hp. 8LL Transmission. Gapvac HV56 with rear mounted jetter. 83,000 miles. **\$75,000.00 Call 207-646-2180 (P04)**

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### United Equipment Funding, Inc.

2007 International 9900ix, Caterpillar C-15 Acert 475 HP, 18-spd transmission, 46K rears, 172,000 original miles, all aluminum wheels 24.5 tires, follow this link for complete specs and additional pictures <http://www.unitedequipmentfunding.com/inventory/specsheet/?ID=16135624> 2004 Peterbilt 378, Cat C-12 430HP 18-spd, 40,000 lbs rears, 24.5 tires and wheels, 3,570-gallon aluminum tank, follow link for complete specs and pictures <http://www.unitedequipmentfunding.com/inventory/specsheet/?ID=16135621>, 2014 Arthur aluminum vacuum tank 4200 gallons <http://www.unitedequipmentfunding.com/inventory/specsheet/?ID=16145432>.

**720-488-9272 (P05)**



**2013 International**, 52,000 GVW, 270 HP, only 77,000 miles, equipped with NEW hydraulic set bed, 12,000 lb capacity. **\$64,000. Call Dewayne 256-338-4985. (PBM)**



**Two Pump Trucks For Sale.** Both are International 550 HP Paystar Model 5600i with 5,000-gal capacity, Wittig RFL100 Pumps, 18-Speed Eaton Transmission, Axles: 20,000 Steerable, 22,000 Front, 46,000 Rear, Rear end ratio 4.3, Pre-emissions. -2003-328,887 miles \$52,500 -2004-149,552 miles **\$62,500. Contact Frank King 978 452-7750 (PBM)**



**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)**

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### VACUUM EQUIPMENT



**2015 VACTOR 2100 PLUS-** \$195,000 OBO Combo single engine sewer cleaner with Positive Displacement Vacuum System. Equipment: Vactor 2115P-18, Mileage= 69,700, Engine hours= 6500 Chassis: 2015 Kenworth T4406x4, 460 HP, Automatic Transmission, 66,000 GVWR Color: White (newly painted Feb 2022) Specs: 2100 Plus PD, 18" Vacuum Hydraulic extending 15", rotating hose reel, 1" x 800' capacity Additional water, 1500 gal total, 15 yd debris **(Email for additional photos) Contact: Leah@charlestonrotorooter.com (P04)**

### VACUUM LOADERS

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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Thank You Meyerink Trenching Service for the privilege of your business and for being a return customer!



### PORTABLE TOILET UNITS



Portable Toilet Restroom Services Units

### DOT INDUSTRIAL VACUUM UNITS

DOT Code & Non-Code Hoist & Rear Door Options



### SLIDE-IN UNITS



Various Sizes Available

### MINI VAC TRAILERS



Industrial Units DOT Code & Non Code

Quality People Doing Quality Work

Join us on Facebook See the progress of some of our units in the making.  
Check out our website for more information: www.marshind.com

## What Do You Do AFTER HOURS

Our After Hours feature explores the personal stories behind the pumper, talking about what you do in your leisure time, your personal interests and hobbies, your charitable pursuits or community involvement.

Pumper welcomes story ideas if you take part in something interesting outside of work, or if you know someone in the pumping business who does.

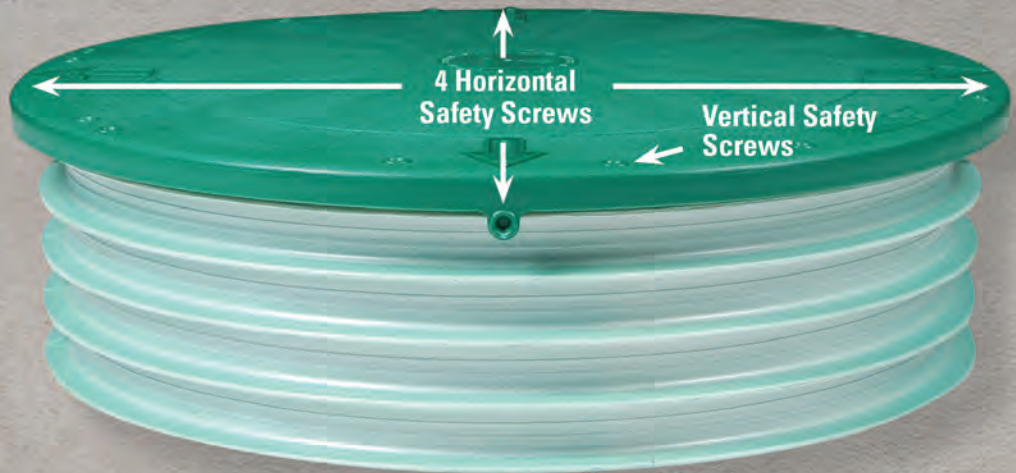
Send us a note to editor@pumper.com.

# 24" HEAVY DUTY MULTI-PURPOSE FLAT RISER LID

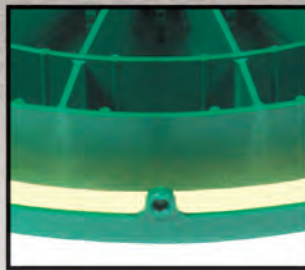
**Fits most commercially available:**

- Risers
- IPEX PVC Ribbed Pipe
- Corrugated Pipe

**LID MAY BE USED WITH OR WITHOUT CONCRETE CENTER**



Secured by 6 Vertical and 4 Horizontal Safety Screws. Screws Included.



Foamed-in Permanent Polyurethane Gasket.



Holds up to 70 lbs of Concrete for Added Safety.



Water-TITE™ Joint Vertical and Horizontal Safety Screws

## 4" Effluent Filter and 4" T-Baffle™

86 ft. of 1/16" filtration area.

Increases time between filter cleaning.



EF-4 Combo Includes Filter, Housing and

4" Sch. 40 & SDR-35

NSF®  
800 GPD ANS/NSF Standard 46

NSF®  
COMPONENT ANS/NSF Standard 46

NSF®  
COMPONENT ANS/NSF Standard 46

TB-4-18 Housing 12/carton

SD-4 Gas/Solids Deflector

EF-4 Combo 18

### 4" Effluent Filter EF-4

One-piece effluent filter fits in 4" Sanitary Tee.

- Injection molded PolyPro
- Simple to install - Easy to clean

### 4" Sanitary Inlet/Outlet T-Baffle™

Injection molded T-Baffle™.

- Injection molded T-Baffle
- Fits 4" Sch. 40 and SDR-35 pipe
- Simple to install
- May also be used as Inlet & Outlet Tee

## 6" Effluent Filter and 6" T-Baffle™

244 ft. of 1/16" filtration area.

Increases time between filter cleaning.



EF-6 Combo Includes Filter, Housing and Bushing

4" Sch. 40 & SDR-35

NSF®  
1500 GPD ANS/NSF Standard 46

NSF®  
COMPONENT ANS/NSF Standard 46

TB-6 Housing

Gas/Solids Deflector

### 6" Effluent Filter EF-6

One-piece effluent filter fits in 6" T-Baffle™.

- Injection molded PolyPro
- Simple to install
- Easy to clean

### 6" Sanitary T-Baffle™

Injection molded T-Baffle™.

- Injection molded
- Fits 4" Sch. 40 and SDR-35 pipe
- Simple to install
- May also be used as Outlet Tee with Solids Deflector

# BUILT

# FOR YOU



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4000-Gallon Aluminum Vacuum Tank, NVE  
4307 Blower, Allison Automatic Transmission,  
Cummins L9 350HP Engine  
Call for Pricing

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CFM), mDrive 12-Spd  
Transmission, MP8 425HP Engine

Call for Pricing



### 2022 INTERNATIONAL MV

2500-Gallon Aluminum Tank, NVE  
607 Vacuum Pump (380 CFM),  
Allison 2500RDS Transmission,  
Cummins B 300HP Engine

Call for Pricing



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