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**18 The New Scour Power**

- Ken Wysocky

California contractor Bradley Tanks Inc. embraces air-excitation technology to broaden the customer base and smartly recycle spoil.

**ON THE COVER:** Bradley Tanks Inc. of Danville, California, rolled the dice and won adopting a new air-excitation technology for industrial vacuum loading. The company's CEO, Sharon Bonner, is shown with a Dino Series truck built by MTS GmbH and distributed by Ox Equipment. (Photo by Collin Chappelle)

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- Jim Kneiszel

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

# How Can Pumpers Combat Rising Disposal Fees?

So your local treatment plant just doubled the bill for dumping septage?

Here are a few tips to prepare for the next inevitable price hike. | By Jim Kneiszel, Editor

**W**anton septage disposal rate increases by cash-strapped municipalities continue to point to an inevitable change in the private wastewater sector: More and more pumpers will be encouraged to address the problem on their own terms — maybe by handling it themselves.

I was visiting a pumper's shop the other day to take some photos. We were leaning on the bumper of his service truck when the talk turned to market conditions in his area. Business has remained brisk, he was about to have a new tank put on his reliable rig, and the cost of business — as it always does — was on the rise. That's to be expected, he said.

What wasn't expected was that one of the area treatment plants located near many of his customers just raised its disposal rate about 10 cents per gallon, close to doubling his dumping fees. Officials were blaming their rising costs for treating wastewater. They had to pass those costs on to the ratepayers. And now my pumper friend was going to have to pass the septage-dumping fees along to his customers.

## DON'T SHOOT THE MESSENGER

It's a common story these days, but one you don't want to hear. When you tell your customers to expect a higher bill this time around, it's one of those "don't shoot the messenger" moments, for sure. When they give you that sideways look and a grunt of displeasure, well, it might as well be you causing all the trouble — not the friendly neighborhood treatment plant.

I expressed my concern to our pumper friend and asked if he was thinking about building his own dewatering facility. He said that's been on his mind and he's looked into doing just that. After all, you can't expect the dumping fees are ever going to go down at the municipal plants, he said, and he figured it was getting expensive enough to warrant another look at his options.

After commiserating some more about the challenges facing small family pumping businesses, we parted ways and I returned to the office. I opened my Google Alerts and found the same type of story happening half-way across the country in Washington state.

This time, Island County, on Whidbey Island near Seattle, voted to raise septage-processing rates from 15.5 cents to 27.9 cents per gallon. According to a news story in the *Whidbey News-Times*, Bill Oakes, the Public Works director, blamed increased wastewater handling costs on the county. And the county hadn't raised its rates in 10 years, said Oakes.

"Maybe we should have been raising the rates each year so that it's not such a shock," Oakes told county commissioners.

Oakes went on to explain that the treatment plant is operated as an enterprise fund. That means it's expected to be self-sufficient, with fees covering costs. He said the county general fund had to subsidize the facility by \$500,000 over the past two years.

As a result of the increased fees, Oakes estimated the average septic-pumping bill would rise \$100. In an effort to blunt that bad news, he explained that a homeowner would have to set aside only \$1.67 per month over five years to cover the cost increase.

I bet that \$1.67 per month argument won't go too far with your customers. They'll most likely focus on the extra \$100 on your invoice and see it as unfair, even price gouging.

There is another benefit besides per-gallon cost to treating your own waste. That would be saving all the time, wages and fuel you expend getting your truck back and forth from the treatment plant.

## CAN'T FIGHT CITY HALL

As municipal plants are squeezed by a combination of smaller budgets and increased demand for their treatment capacity, pumpers will face situations like this more often. I've heard of some plants shutting their doors to pumpers entirely, though more often they are raising rates to a captive audience of the 25% to 30% of the public who rely on septic systems. These are your customers, and they desperately need a place to take their sludge.

You know the old adage "You can't fight city hall"? That's probably true when it comes to fighting these rate increases. But I have a few suggestions to get proactive when facing rising disposal costs:

### Work with your treatment plant

Start to approach your treatment plant operators more as partners than adversaries. If you don't already, call for regular meetings with public works leaders and local pumpers to help plan for more challenges in the future. Seek creative solutions for a growing demand for septage treatment. You might know more about dewatering septage than the plant operators. Talk to them about some of the technologies and equipment you've seen put to

use in the wastewater industry. As the Whidbey Island plant operator mentioned earlier, ask your plant operators for a forecast of increasing costs and see if they can be rolled out slowly rather than once in 10 years.

### Build your own treatment plant

Do you handle enough gallonage to warrant setting up your own dewatering plant? It depends, of course, on the cost of your local treatment options, but if you currently dump more than a million gallons at the treatment plant, one of the new small-scale technologies may allow you to efficiently and cost-effectively process waste at home. Of course there is another benefit besides per-gallon cost to treating your own waste. That would be saving all the time, wages and fuel you expend getting your truck back and forth from the treatment plant. The National Association of Wastewater Technicians, a trade association for pumpers, can help you determine if building your own plant is a good financial move. Your state association would also be a good place to start: Many members have experience in this area.

### Consider a regional private approach to treatment

Though I've heard some horror stories, I know many pumpers get along fine with their competitors. And if you do, it could be time to consider forming a consortium of septage haulers to fight this battle together. Several pumping companies could form a cooperative to operate a joint treatment plant that serves all of their needs. Of course, there would be a lot of legal and logistical moving parts with this type of arrangement, but it could work if you all have one goal in mind: reducing disposal costs in the future. An alternative would be for one pumper to pledge to build a facility with the understanding and hope that others would use the plant as long as it was more cost-effective than a public option.

### Work on customer messaging

A boss a long time ago taught me a valuable lesson. He learned of a mistake I made at work from someone in the community. "I don't care so much that you made a mistake," he said. "But I really hate surprises. Always share bad news with me before someone else does."

What does this have to do with the homeowners you serve? Customers are your bosses. They don't like surprises either, especially when it hits them in the pocketbook. Try to pass along price hikes in small increments so they don't get hit with that \$100 increase mentioned above. It's always good practice to remind customers to expect rising costs that will allow you to continue to provide excellent service and stay profitable. Folks usually like to support local businesses, and they will understand that you need to raise rates to put food on the table and hopefully pass along your business to the next generation of pumpers.

### THE GOOD NEWS

Buried under the bad-news headline of a major price hike is the good news for septic system users. Sure, they might face a \$100 increase to a modest bill of several hundred dollars every three to five years. Compare that invoice to the \$50, \$100 or more monthly sewer bill for folks tapped into the big pipe. Several hundred dollars versus several thousand dollars every five years? Put it that way and your customers are getting an incredible bargain. **P**

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# THE NEW SCOUR POWER

California contractor  
Bradley Tanks Inc.  
embraces air-excitation  
technology to broaden  
the customer base and  
smartly recycle spoil

By Ken Wysocky

Technician Dustin Steele (left) uses the air lance, while operator Shawn Addison operates the mechanical boom of a Dino suction excavator (built by MTS GmbH and distributed by Ox Equipment) during an excavation job. (Photos by Collin Chappelle)

## Bradley Tanks Inc.

Danville, California

**OWNER:** Sharon Bonner

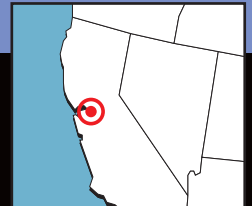
**FOUNDED:** 1999

**EMPLOYEES:** 75

**SERVICE AREA:** California

**SERVICES:** Dry-suction excavation, transportation and disposal of hazardous and nonhazardous waste, frac-tank rentals

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



A couple of years ago, a customer asked Sharon Bonner if there was a way to reduce the high costs associated with transporting and disposing of mud spoil generated by hydroexcavating. As the owner of Bradley Tanks Inc. (BTI), a waste-hauling and frac-tank-rental company, Bonner did some research and found a solution: air-excitation technology that produces dry spoil that can be reused on site.

Bonner was immediately intrigued by the technology. But there was a sticking point: No other company in the U.S. had purchased the equipment, known as the Dino Series of suction-excitation trucks, built by MTS GmbH, a German manufacturer. Bonner had to make a significant decision to either serve as a technological guinea pig and persuade customers to embrace the technology — already popular in Europe — or avoid the risk entirely and stick with the status quo.

So in a pivotal “if you invest in it, they will come” moment in 2017, BTI bought a Dino suction excavator through Ox Equipment. (Ontario-based Ox Equipment is the North American distributor for MTS GmbH.) The stakes were high: At about \$900,000 per unit, the Dino trucks represented a serious capital expenditure.

But the gamble has paid off. Today, BTI — based in Danville, California — is much more than just a company that rents frac tanks and provides nonhazardous and hazardous-waste hauling and

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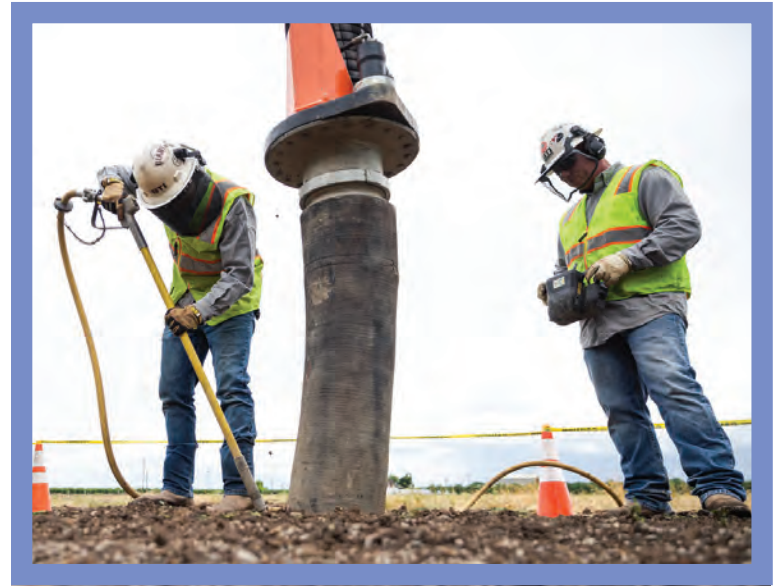


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**Left:** Shawn Addison looks on as he uses the truck's remote to dump the debris from the box of the truck. One of the key features of the Dino is its ability to side-dump spoils.

**Below:** Dustin Steele operates the lance to break up the ground. The Dinos are capable of handling dry or wet material.



“ It was a risky move. But I always look to the future. You can't just say, 'This is what we're doing now and it's working, so we'll just keep doing it.' Things change, and you have to be ready to adapt to those changes. ”

**SHARON BONNER**

disposal services; it became a forerunner in a new excavation frontier. The bottom line: What looked like a big calculated risk three years ago now appears to be a solid and sound business decision.

“It was a risky move,” says Bonner, who founded the company in 1999. “But I always look to the future. You can't just say, ‘This is what we're doing now and it's working, so we'll just keep doing it.’ Things change, and you have to be ready to adapt to those changes.”

“We bought a Dino without even a contract in hand,” she recalls. “And so far, so good.” The company has added several more Dinos since then.

“That's something Sharon always does — looks ahead to broaden the scope of what BTI can do,” says Kelly Graser, the company's director of compliance. “It's not the first time she's had us develop and finance equipment that doesn't even exist in the marketplace, just to provide specific solutions for our clients.”

“This was just another time when she felt it was the right direction — the right time to step into this industry because it offered something completely different,” Graser continues. “We're certainly not here to take over the hydroexcavating world. Hydroexcavating still has its applications. It's just that this technology offers a number of benefits that have a place in project work.”

## GO BIG OR GO HOME

BTI's decision to invest in suction-excitation technology underscores both the importance of listening to customers and helping them find solutions to business challenges and of taking calculated risks to invest in game-changing technology.

In BTI's case, the customer that spurred the investment was a utility company for which BTI handled wet-spoils disposal. While the air-excava-

tion technology intrigued BTI's management team, it also presented a bit of a conundrum because it also would reduce revenue generated by contracts for hauling and disposal of wet spoils.

Bonner felt the lost revenue could be offset by providing the air-excavation service, which also has applications in other industries. “We saw a demonstration of a Dino and thought this could work,” she says. “If we're the ones that present the technology to customers, that's a way to increase our revenue and make up for loss of revenue from wet-spoils contracts. It's a risk you take.”

“In the long run, we think this technology is the future because it's more environmentally sustainable,” she adds.

## AIR-TECHNOLOGY ADVANTAGES

Bonner saw an advantage to being the first to embrace this new technology in the U.S. For starters, the sheer high cost of the equipment presents a formidable barrier to market entry by others. In addition, customers were excited about the potential for reducing hauling and disposal costs.

“We knew how much customers were spending on disposal of wet spoil. The Dinos will help clients reduce the volume of mud,” Graser says. “For projects we now work on, about 95% of the spoil remains on site and gets immediately reused.”

The immediate reuse of spoil is another big selling point because it re-

*(continued)*



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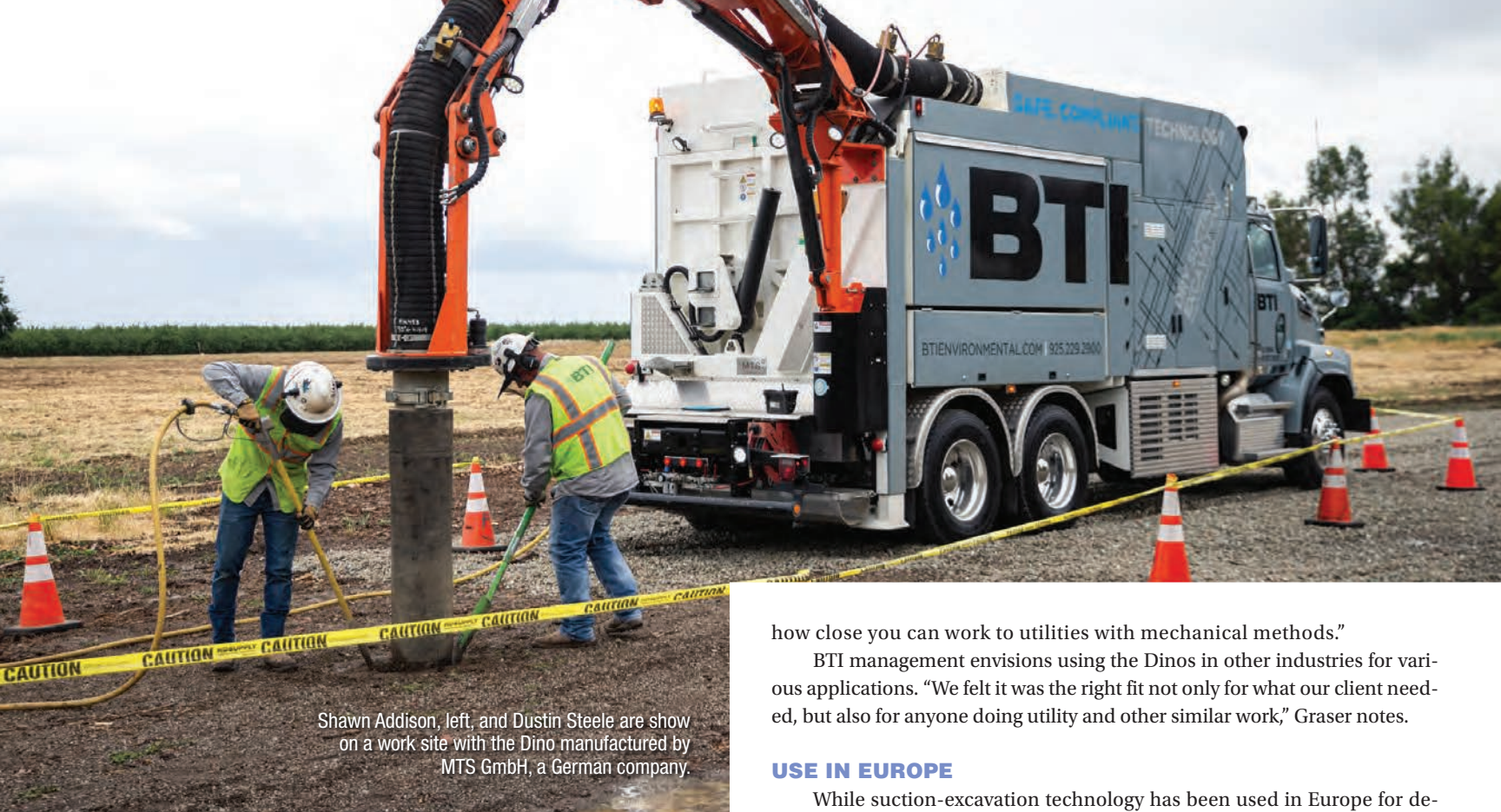
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Shawn Addison, left, and Dustin Steele are shown on a work site with the Dino manufactured by MTS GmbH, a German company.

“ We’re certainly not here to take over the hydroexcavating world. Hydroexcavating still has its applications. It’s just that this technology offers a number of benefits that have a place in project work. ”

**KELLY GRASER**

moves the cost of buying and transporting materials to job sites to backfill excavated areas. And the Dinos improve productivity because they don’t have to leave job sites to refill water tanks as hydroexcavators must, Graser says.

“And the excavated area is dry,” she continues. “So if people need to get back in there, they’re working in a dry environment instead of a wet, muddy environment. Another advantage is that the Dinos don’t use water to dig, so that conserves a natural resource. It also enables the trucks to work in remote areas where water isn’t always readily available and would be expensive to transport to job sites.

“Also, because the Dinos use air, it’s a soft-dig method, not mechanical,” she adds. “That’s significant because there are regulations about

how close you can work to utilities with mechanical methods.”

BTI management envisions using the Dinos in other industries for various applications. “We felt it was the right fit not only for what our client needed, but also for anyone doing utility and other similar work,” Graser notes.

#### USE IN EUROPE

While suction-excavation technology has been used in Europe for decades, it’s relatively unknown in North America. BTI is busy changing that dynamic with its investments in the Dino trucks, which use pneumatic tools powered by compressed air to break up soil.

The units then suction up the loosened soil with a pair of high-powered fans. Unlike hydroexcavated soil, which turns into a slurry that’s costly to haul and dispose, the spoil generated by a Dino is dry and can be immediately reused on site for backfilling. That provides big cost-savings for customers, says Colin Donoahue, business development director for Ox Equipment.

The trucks are built on Western Star chassis and feature various sizes of steel debris boxes, available in 4 1/2-, 6-, 10 1/2- and 16-cubic-yard capacities. “To unload soil, the truck and bin come apart, sort of like a Transformer, to do a side dump,” Graser explains. The leading edge of the debris container is high enough to accommodate a roll-off bin, while a high-tip option enables the unit to load directly into a dump truck, Donoahue says.

Two key components are dual rotary-vane air compressors built by Mattei, which generate a total of 320 cfm of compressed air, and proprietary twin fans that produce 24,000 cfm of suction power. Along with powering the tools used to loosen soil, the air compressors also operate a filtration system that automatically cleans the suction system and an optional boom-mounted vibrator that keeps debris from clogging the suction hose, Donoahue says.

The soil-loosening tools include an air lance made by AirSpade Division, Guardair Corp., pneumatic power shovels from Vogt GmbH and jackhammers built by Atlas Copco. The tools are included as standard equipment; optional pogo tampers, made by MBW or Chicago Pneumatic, are available from Ox Equipment, Donoahue says.

#### ARTICULATING AND SWIVELING BOOM

Other features include a 10-inch suction tube and a 23-foot-8-inch-long hydraulic articulating “mega arm” that swivels, providing 180 degrees of coverage off the back of the truck, as well as remote-control operation, including a remote hydrostatic drive system, which allows an operator to remotely position the truck without disengaging the suction system.

*(continued)*

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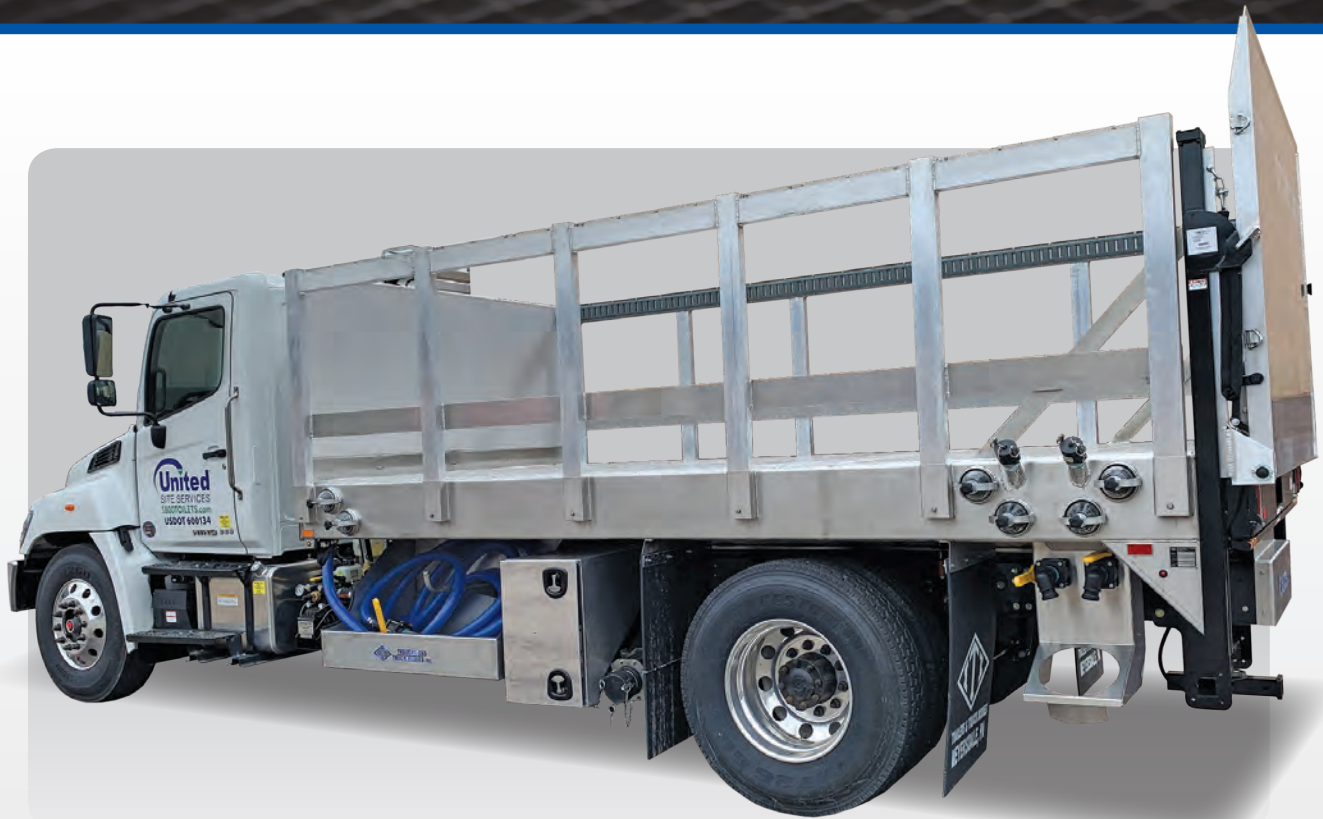
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The mega arm features four hinge points that allow for more precise location of the suction tube and a rigid dig tube that extends the mega-arm length to 30 feet, Donoahue says. The truck operates at less than 85 dB at a distance of 15 feet.

BTI provides the operator with thorough training that includes a mix of classroom education, hands-on operation and additional education from two training organizations, Industrial Training Services and Veriforce. Operators also need a commercial driver's license, Graser notes.

After that, operators obtain certification by certified third-party evaluators. "We do it both for the health and safety of our employees and for clients that require specific operator qualification in order to bid on jobs," Graser says.

"It's a good month before employees are out shadowing someone who does actual fieldwork," she continues. "And they probably spend another month shadowing as an extra hand on a project. I'd say it takes roughly three months to become proficient, but guys who've run a hydrovac truck before and are used to working around underground utilities tend to pick it up faster."

Along with the Dinosaurs, BTI also owns more than 300 frac tanks; 35 Peterbilt tractor-trailers; 50 aluminum and steel end-dump trailers for hauling bulk soil and debris, including some made by Hanson Trailers; and more than 20 stainless steel vacuum tanker trailers (used for liquid hauling) and rocket-launcher trailers (used for carrying waste containers).

## MORE GROWTH EXPECTED

Graser anticipates further growth for BTI, with some of it coming through finding other applications for the air-excitation technology. That could include removing and then putting back collected ballast in railroad yards and sucking up gravel from rooftops undergoing repairs.

"I would say our growth will come from within California," she says. "But you never know what opportunities might come up. And that's where BTI shines — jumping at opportunities as they arise. We're always open to new opportunities."

Growth could also come through further investments in advanced technology. Some companies don't want to be the first one in a market to try something new; Bonner says BTI isn't one of them. But doing so requires a certain degree of patience to develop a new market, as well as the willingness to thoroughly educate customers about how the new technology can benefit them.

As for the financial risks, Bonner says she operates with a nothing-ventured, nothing-gained mentality. "I've never really been fearful of taking risks," she says. "If you have the finances and the resources and can afford to take a calculated risk, it usually pays off. You need to continually move forward." **P**



**Below Right:** Operator Shawn Addison is shown with a Dino suction excavator with the debris dump activated.

**Below Left:** Sharon Bonner, CEO of Bradley Tanks Inc., is shown with one of the company's Dino trucks.



## BUSINESS BUILDING 101

For someone who graduated from college with a degree in organizational behavior, Sharon Bonner is pretty good at building a business. For proof, consider her company, Bradley Tanks Inc., which has changed and grown dramatically since she established it as a frac tank rental business in 1999.

BTI has diversified into hauling and disposing of hazardous and nonhazardous waste and providing suction-excavating services with innovative suction-excavation trucks.

Bonner got into the industry in a roundabout way. While working part time for a truck-rental agency during college, a mechanic said something that caught her attention.

"He told me that renting trucks is such a great business," she recalls. "He said, 'Look at all that equipment in the yard. It's all paid for, so every time it goes out, that's cash on the bottom line.' That thought always stayed with me."

Some 20 years later, that thought emerged again as she contemplated a business she could run herself.

"My husband worked for a landfill that hauled and disposed of hazardous waste so I saw the kind of equipment that was on construction sites," she says. "I noticed a lot of frac tanks on job sites for holding

stormwater and groundwater.

"Only a couple of companies rented them, and no one was really focusing on the environmental end of it," she continues. "So I bought a few tanks to see how it would go. It was just me and an assistant."

Growth came slowly, and the formula always was the same: Borrow money to buy some tanks, pay them off, rinse and repeat. "Slowly but surely, the ball got rolling and it becomes a viable business," she says.

As for the company's name, Bonner liked the tough image invoked by playing on the name of the legendary Bradley Fighting Vehicle, a tanklike military machine used by the U.S. Army.

As for being a woman in a male-dominated field, Bonner says she has rarely found it an obstacle. In fact, she thinks at times it's been an advantage. "If you're a woman in a male-dominated industry, people are curious about that," she explains. "I've dealt with thousands of different businesses ... and I don't think being a woman matters so much. You can overcome anything as long as you present yourself in a professional manner, and people understand that you're smart and capable and willing to listen to what they have to say."



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Max GPM.	Max. LMP	Max. PSI	Max. Bar	Max. RPM	Req. HP	RTX 60
14.0	53.0	4350	300	1450	47.2	

RTX 70	Max GPM.	Max. LMP	Max. PSI	Max. Bar	Max. RPM	Req. HP
	17.0	64.4	3000	200	1450	25.4

Max GPM.	Max. LMP	Max. PSI	Max. Bar	Max. RPM	Req. HP	RTX 85
21.0	85.0	3000	200	1450	34.0	

RTX 100	Max GPM.	Max. LMP	Max. PSI	Max. Bar	Max. RPM	Req. HP
	24.0	90.8	1800	124	1450	27.2

For  
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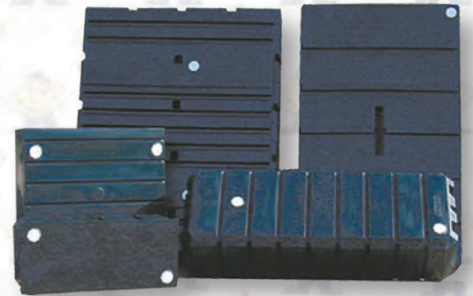
90 Gallon Free-Standing Sink with Optional Handicap Accessible Sink (45 gallons fresh water)



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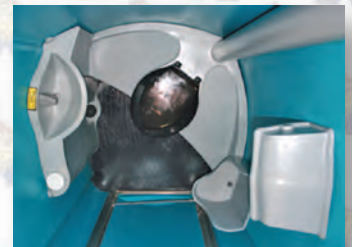
TJ Junior Single Free Standing Sink (16 gallons fresh water)



Sink Lifting Bracket



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Interior View of Deluxe TJ-III

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Anne Connor

Anne Connor is a Spanish and Italian-to-English medical and legal translator and an active member of the American Translators Association. To learn more, go to [www.atanet.org](http://www.atanet.org).

# Great Signage Keeps Phones Ringing and Workers Safe

Be clear and concise with all of your brand and safety communication, and realize English may be a second language for many of your customers and employees | Anne Connor

**B**en could hardly wait to set up his own business after years of working for a large company. Knowing the demographics of his market area, Ben wanted to market to the large Latino population there. So, he looked up the key words in Spanish and created a beautifully designed website and colorful, eye-catching signage to attract new business from the surrounding Spanish-speaking communities.

Then Ben decided to hire his former co-worker Carlos — who grew up in a bilingual home — to work with potential customers who felt more comfortable doing business in Spanish. The catchy bilingual sign Ben came up with turned heads, but not for the reasons he expected.

Business was underwhelming at first. Latinos who did stop in were genuinely surprised to find an employee who could speak their language because the sign out front contained “Spanish” words that were misspelled, missing accents or even nonexistent. For instance, the Spanish word “servicios” was spelled as “servicies.”

Ben didn’t think much more about it until a Spanish-speaking woman came by to say she was confused about one type of business offered because of a literal translation of “umbrella” as something to do with the device that keeps the rain off of you, not an encompassing service. While Carlos took the extra time to explain this to her, Ben suddenly realized that his seemingly minor mistakes were costing him business. As soon as he replaced all the signs inside and outside of his office — not to mention reprinting flyers and updating his website — at a substantial cost, Ben’s profits picked up tremendously.

Experienced signage professionals say some of their toughest jobs involve deliberately misspelled words — such as “Korner” or “Qwik,” which are meant to be catchy and attract attention — because they require extra quality-control steps. And if they’re making signs containing foreign languages, they usually ask their clients to have them proofed by a professional translator. Sign creators make sure the design is right, but most are not language experts as well.

## SIGNAGE THAT SELLS

As a business owner, your signage speaks volumes about you. It’s that first impression that will either encourage someone to either give you a call or click on your website to see what you have to offer. Here are some tips to make sure your signage sells:

**Make the sign outside your business stand out.** Your logo and/or trade name should attract attention. Be sure to fully brief your graphic designers about your target customer (a walk-in, passerby, drive-by, all of the above). Ask for their advice on the appropriate font style and size for each piece of information and each kind of sign they make for you. Remember to include your company name, phone number and website on the sign as well.

**Be consistent.** Brand recognition is key, and consistent signage will help you build a recognizable brand that people will remember. Make sure your branding is on everything — from the broad side of your vacuum truck tank to the portable restrooms you put out on construction sites and at special events. If your brand is consistent and memorable, more folks will recall your name for word-of-mouth referrals.

Having safety signs printed in their [employees’ and customers’] native/dominant language will not only help prevent workplace accidents, but also win over staff and customers. Make sure to use professional translators with experience in occupational safety.

**Show them the way.** Design branded wayfinding signs that are concise and unambiguous. Make it easy for anyone to find you and less likely for them to find one of your competitors.

**Speak their language.** Do many of your customers speak English as a second language? Consider hiring bilingual staff and announcing loud and clear — on your signs — that your business can assist them in their native language. If nothing else, consult professional translators to ensure your marketing materials send the right message. Studies show that people prefer to shop in their native language.

**Keep them safe.** If you employ people with limited English proficiency or cater to customers with limited English proficiency, having safety signs printed in their native/dominant language will not only help prevent workplace accidents, but also win over staff and customers. Make sure to use professional translators with experience in occu-

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ational safety. They will not only ensure your signs send the right message, but also make sure that message fits the sign, as letter spacing and other nuances may need to change depending on the target language. Note that the Occupational Safety and Health Administration provides the "It's the Law" safety poster in several languages for free at [www.osha.gov/publications/poster.html](http://www.osha.gov/publications/poster.html). And don't forget that some U.S. states and territories have their own signage requirements. Check whether yours is one of them at [www.osha.gov/dcsp/osp/index.html](http://www.osha.gov/dcsp/osp/index.html).

**BOOST THE BOTTOM LINE**

As a business owner, the last thing you want is for your signage to turn people off before you even have the chance to meet them. Your signs say a lot about your business — your expertise, attention to detail and overall competency. A well-designed, consistent and flawless message across your print, equipment and digital media will build positive brand awareness, get people to call and ultimately boost your bottom line. **P**

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# NOWRA Pushes \$50 Million Federal Program to Fix Failing Septic Systems

By David Steinkraus

**T**he National Onsite Wastewater Recycling Association reports progress in convincing Congress to establish a grant program to help low-income Americans repair or replace failing septic systems.

The Senate Committee on Environment and Public Works included a grant program in S.3591, otherwise known as America's Water Infrastructure Act of 2020. The potential problem is that the House of Representatives' version of the bill is not expected to include the grant program, writes Eric Casey, executive director of NOWRA, in a letter to members.

At some point, the two bills will have to be merged in order to pass Congress, and Casey is calling on NOWRA members to contact their representatives in Congress and urge them to support the grant program so that it's included in the final bill. Originally the grant program was in a bill sponsored by Sen. Corey Booker, D-N.J., whom NOWRA worked with to develop the legislation.

How much the program will spend — assuming the idea makes it all the way through Congress — will be determined later in the appropriations process. As it is now, the legislation authorizes up to \$50 million for 2021 and 2022. Money would be distributed by the U.S. Environmental Protection Agency to nonprofit organizations that would make the grants.

## Minnesota

A state appeals court ruled against four Amish men who want to be exempted from Fillmore County wastewater rules. The four have been fighting for years to avoid installing septic systems for graywater disposal. (The Amish use outhouses for human waste, which is permitted under Minnesota law.) They say the county's rules infringed on their religious beliefs, that a septic system is a "way of the world," which they argue they are commanded to avoid.

Instead of a septic system, the men proposed using a "mulch basin system" for the waste. But at trial last year, a witness for the county said a mulch basin would not work in Fillmore County. The appeals court said the district judge on the case properly found that a septic system was the least-restrictive way of accomplishing the government's interest in protecting public health.

In his 2019 ruling, Judge Joseph Chase wrote that the Amish desire to not follow the wastewater rules interferes with the rights of others. "This is a situation in which the Amish cannot, despite their most sincere efforts, be separate from the world. All water is connected, and all of us, Amish and English alike, drink from the same aquifers."

## Massachusetts

The Board of Health in Marion is considering a rule to require nitrogen-reducing wastewater systems for any new onsite system or any system identified as failing when a property is sold.

The board held a webinar in the spring to inform citizens about the proposed rule. Dot Brown of the Health Department says nitrogen in the town's harbors has been increasing since 1991. The webinar also featured George Heufelder, who spoke about technologies that reduce nitrogen pollution. He is the retired director of the Massachusetts Alternative Septic System Test Center in neighboring Barnstable County.

## Missouri

An agreement approved last spring transfers responsibility to investigate failing wastewater systems from the Taney County Health Department to the Taney County Environmental Services Department. As a result, Environmental Services can now legally investigate onsite system complaints.

John Souttee, project coordinator for the Environmental Services Department, says he discovered the lack of investigative authority last year. Some property owners refused to cooperate while he was investigating their systems, and as he was preparing information to forward to the district attorney, he discovered the county contract with the state Health Department did not give his department the authority to investigate complaints, reports the *Branson News*. Instead, authority rested with the county Health Department, which is independent of county government.

County Health Department officials told Souttee they would prefer that Environmental Services handle investigations because the county also handles onsite system permits.

## New York

Erie County, near Buffalo, has more than 500 onsite system inspections backlogged in its system, and that forced some property sellers to deposit thousands of dollars in escrow to cover potential repairs if their system could not be inspected before a sale closed.

The county Health Department also recently returned to requiring inspections for homes on public water service, but it suspended those during the early phase of the coronavirus pandemic because county workers had to go to people's homes.

The county charges a \$150 inspection fee, but some residents chose to hire a private inspector. Those can be \$700 or more, reports WIVB





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News in Buffalo, but the county will reimburse people only the \$150 they would have paid the county for the same service.

### Brussels, Belgium

Just like North America, Europe is looking at recycled wastewater as an answer to shortages. Earlier this year, the European Parliament passed a law defining how recycled water can be used for agriculture. The intent is to allow more uses for recycled water so there is less withdrawal from groundwater, says a news release from Parliament.

This law means Europe could potentially reuse about 1.7 trillion gallons of water (6.6 billion cubic meters) by 2025 instead of the current 290 billion gallons (1.1 billion cubic meters), says Simona Bonafe, one of Italy's representatives. That is more than half of the effluent from wastewater treatment plants, and reuse would cut groundwater withdrawals by 5%, she says in the press release.

Groundwater levels have been falling because of withdrawals for agriculture, industry and urban development. A report from the European Commission, the executive branch of European government, says at least 11% of the continent's population has been affected by water scarcity. **P**

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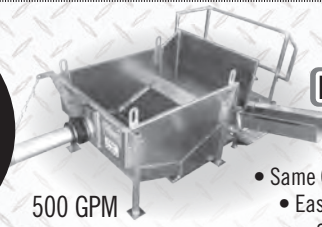
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## IN PROGRESS



**2013 Freightliner M2**, Cummins 220 HP, Allison auto, NON CDL, low miles, **NEW** 1800 gallon steel vac tank, **NEW** Masport Viper vac pump

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## IN PROGRESS



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 <p><b>GapVax Inc.</b> 575 Central Ave. Johnstown, PA 15902 888-442-7829 • 814-535-6766 f: 814-539-3617 www.gapvax.com Inquiry@gapvax.com</p> <p><b>See Ad - Page 25</b></p>	HV33 HydroVax	Hydro	Chassis	6	Full Opening	90 degrees	600	12 gpm 3,000 psi	27" hg 4,000 cfm	Wet/dry single mode
	HV55 HydroVax	Hydro	Chassis	12 1/2	Full Opening	90 degrees	400 - 1,400	5 - 40 gpm 2,000 - 5,800 psi"	28" hg 5,250 cfm	Wet/dry single mode
	HV56 HydroVax	Hydro	Chassis	15	Full Opening	90 degrees	400 - 1,200	5-40 gpm 2,000 - 5,800 psi"	28" hg 5,250 cfm	Wet/dry single mode
 <p><b>Guzzler Manufacturing</b> 1621 S Illinois St. Streator, IL 61364 800-627-3171 • 815-672-3171 www.guzzler.com sales@guzzler.com</p>	Guzzler Guzzcavator	Hydro	Chassis	16 or 18		50 degrees	600	10 gpm 2,500 psi	27" hg 5,200 cfm	Cyclone and baghouse with 60 filter bags
	Guzzler GLE w/air excavation package	Air	Chassis	18					27" hg 5,200 cfm	Cyclone and baghouse with 60 filter bags
<p><b>Imperial Industries Inc.</b> 550 W Industrial Park Ave. Rothschild, WI 54474 800-558-2945 • 715-359-0200 f: 715-355-5349 www.imperialind.com info@imperialind.com</p> <p><b>See Ad - Page 13</b></p>	Hydro 3600 Hybrid Excavator	Hydro	Chassis	15	72"	42 degrees	215	20 gpm jetter 4,000 psi	27" hg 1,600 cfm	Grit ridder


Boom Size (ft.)	Degree of Rotation	Offloading Type	Controls Location	Wireless Y/N	Accessories Available	Vacuum (CFM/PSI)	Power Source	Compressed Air Flow	Compressed Air Pressure	Other
15'+	330	Gravity with optional auger	In cab and outside enclosure and 40' pendant	Yes	Winterization Lighting Tool Boxes Racks Cabinets					
14' - 18' reach 18' 10" up 4' 6" down	270	Decant and fully opening tailgate, Auger and sludge pump options available	Curbside	Yes	Winterization Lighting Tool Boxes Racks Cabinets	4000 cfm / 28" Hg	Chassis engine / transfer case driven	200 CFM	200 PSI	On-board scales with digital readout, stops loading when set target is reached (optional); 26 Filter bags, inverted tailgate to reduce length 200 cfm air pump, 4,500 cfm, 18" hg blower
17' - 25' reach from center of truck	270	Decant and fully opening tailgate, Auger and sludge pump options available	Driver's side curbside controls vary depending on options	Yes	Winterization Lighting Tool Boxes Racks Cabinets	5300 cfm / 28" Hg	Chassis engine / transfer case driven	200 CFM	200 PSI	34 Filter bags, 5 cyclones for superior filtration; safe working area on top of truck; various options available
17' - 25' reach from center of truck	270	Decant and fully opening tailgate, Auger and sludge pump options available	Driver's side curbside controls vary depending on options	Yes	Winterization Lighting Tool Boxes Racks Cabinets	5300 cfm / 28" Hg	Chassis engine / transfer case driven	200 CFM	200 PSI	200 cfm air pump; 6,600 cfm, 28" blower optional
8"	320	Dumping, tilting debris body, optional sludge pump	Passenger side	Yes	Winterization Lighting Tool Boxes Racks Cabinets					
		Dumping, tilting debris body, optional sludge pump	Passenger side	Yes	Winterization Lighting Tool Boxes Racks Cabinets					
6" 10' - 15' reach	180	Full rear opening door	Remote/user's pocket	Yes	Lighting Tool Boxes Racks Cabinets					Available in code and non-code

# 2020 Vacuum Excavation Directory

	Model	Type	Style	Debris Body Capacity (cu. yards)	Debris Door (dimensions)	Debris Door (dump angle)	Water Tank Capacity (gal)	Standard Water Pump (gpm & psi)	Standard Blower (hg & cfm)	Filtration Type
 <p><b>Presvac Systems</b> 4131 Morris Dr. Burlington, ON L7L 5L5 800-387-7763 • 905-637-2353 f: 905-681-0411 www.presvac.com sales@presvac.com</p> <p><b>See Ad - Page 84</b></p>	<b>Presvac HydroX Mini</b>	Hydro	Chassis	7	Full Diameter Full Opening		800	18 gpm 3,500 psi Adjustable Flow and Pressure	28" hg 2,650 cfm	Cyclone and inlet filter
	<b>Presvac HydroX</b>	Hydro	Chassis	15	78" Full Opening	90 degrees	1,000	18 gpm 3,500 psi Adjustable Flow and Pressure	28" hg 4,000 - 6,400 cfm	Two large cyclones and inlet filter
 <p><b>Rival Hydrovac Inc.</b> Box 5 Major, SK S0L 2H0 844-467-4825 • 403-550-7997 www.rivalhydrovac.com tdell@rivalhydrovac.com</p> <p><b>See Ad - Page 29</b></p>	<b>Rival T7</b>	Hydro	Chassis	8	54" Full Opening Rear Door Two Stage Hoist	70 degrees	800	10 gpm 3,000 psi	27" hg 2,650 cfm	Cyclone and cartridge
	<b>Rival T10</b>	Hydro	Chassis	10	54" Full Opening Rear Door Two Stage Hoist	70 degrees	1,200	10 gpm 3,000 psi	27" hg 3,850 cfm	Cyclone and cartridge
 <p><b>Super Products LLC</b> 130 Boxhorn Dr. Mukwonago, WI 53149 800-837-9711 • 262-784-7100 www.superproductsllc.com info@superproductsllc.com</p>	<b>Mud Dog 1600</b>	Hydro & Air	Chassis	16	Full Opening Rear		2,000	18 gpm 3,000 psi	28" hg 5,800 cfm	
	<b>Mud Dog 1200</b>	Hydro & Air	Chassis	12	Full Opening Rear		1,500	18 gpm 3,000 psi	28" hg 5,800 cfm	
<p><b>Transway Systems Inc.</b> 314 Lake Ave. N Hamilton, ON L8E 3A2 800-263-4508 • 905-578-1000 f: 905-561-9176 www.transwaysystems.com sales@transwaysystems.com</p> <p><b>See Ad - Page 5</b></p>	<b>Terra-Vex HV38</b>	Hydro	Chassis	12	Hydraulic 3/4 Door		1,000	10 gpm 3,600 psi	27" hg 3,800 cfm	Cyclone with washable poly filter
	<b>Terra-Vex HV64</b>	Hydro	Chassis	12	Hydraulic Full Open Door		1,000	10 gpm 3,600 psi	27" hg 6,400 cfm	Cyclone with washable poly filter

Boom Size (ft.)	Degree of Rotation	Offloading Type	Controls Location	Wireless Y/N	Accessories Available	Vacuum (CFM/PSI)	Power Source	Compressed Air Flow	Compressed Air Pressure	Other
6" x 20'	340	45 degree dump and optional pressure off-load	Passenger side	Yes	Winterization Lighting Tool Boxes Racks Cabinets	185 / 150	Hydraulic	125 – 185	100 – 150	Can be built to DOT/TC Code
8" x 25'	340	45 degree dump and optional pressure off-load	Passenger side	Yes	Winterization Lighting Tool Boxes Racks Cabinets	185 / 150	Hydraulic	125 – 185	100 – 150	Can be built to DOT/TC Code
6" x 20'	342	Tilt and pressure off	Curbside	Yes	Winterization Lighting Tool Boxes Racks Cabinets					All Accessories are Included, Weights displayed on Wireless Remote
8" x 25'	342	Tilt and pressure off	Curbside	Yes	Winterization Lighting Tool Boxes Racks Cabinets					All Accessories are Included, Weights displayed on Wireless Remote
8" x 19 - 27'	335	Ejector	Passenger side Inside heater cabinet	Yes	Winterization Lighting Tool Boxes Cabinets			185 cfm	175 psi	Air excavation option
8" x 19 - 27'	335	Ejector	Passenger side Inside heater cabinet	Yes	Winterization Lighting Tool Boxes			185 cfm	175 psi	
8" x 26'	320	Telescopic hoist and optional pressure off	Curbside	Yes	Winterization Lighting Tool Boxes Racks Cabinets Roll Up Doors	3800	Transfer case	180 cfm	150 psi	Full insulated enclosure for blower and water system, hydraulic drive
8" x 26'	320	Telescopic hoist and optional pressure off	Curbside	Yes	Winterization Lighting Tool Boxes Racks Cabinets Roll Up Doors	6400	Transfer case	180 cfm	150 psi	Full insulated enclosure for blower and water system, transfer case drive

# 2020 Vacuum Excavation Directory

Model	Type	Style	Debris Body Capacity (cu. yards)	Debris Door (dimensions)	Debris Door (dump angle)	Water Tank Capacity (gal)	Standard Water Pump (gpm & psi)	Standard Blower (hg & cfm)	Filtration Type	
 <p><b>TRUVAC</b> by Vactor Mfg. Inc.</p> <p>TRUVAC 1621 S Illinois St. Streator, IL 61364 800-627-3171 • 815-672-3171 www.truvac.com emarketing@truvac.com</p>	Paradigm	Air & Hydro	Chassis	3.342		50 degrees	300 Air only: 100	8 gpm @ 2,500 psi Air only: 4 gpm @ 2,500 psi	15" hg 2,200 cfm	Dual cyclone and 5 micron polyester final filter
	Prodigy	Air & Hydro	Chassis	9		50 degrees	600	10 gpm 3,000 psi	16" hg 3,200 cfm	Cyclone and polyester final filter
	HXX	Air & Hydro	Chassis	12 or 15		50 degrees	1,200	10 or 20 gpm 3,000 psi	18" or 28" hg 4,970, 5,250 or 6,176 cfm	Single or dual cyclone and polyester final filter
	Coyote	Hydro	Chassis	9		45 degrees	1,000	10 or 20 gpm 3,000 psi	16" hg 3,200 cfm	Cyclone and polyester final filter
	Wolf	Hydro	Chassis	14		45 degrees	1,500	20 gpm 3,000 psi	28" hg 5,200 cfm"	Dual cyclone and polyester final filter

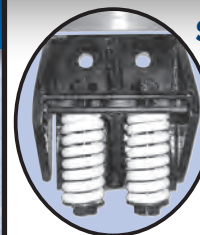
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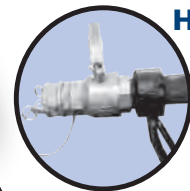
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Boom Size (ft.)	Degree of Rotation	Offloading Type	Controls Location	Wireless Y/N	Accessories Available	Vacuum (CFM/PSI)	Power Source	Compressed Air Flow	Compressed Air Pressure	Other
6" diameter 5' extension	225	Dumping, tilting debris body	Right side	Yes	Winterization Lighting Tool Boxes Racks Cabinets					
6" diameter	320	Dumping, tilting debris body optional sludge pump	Right side	Yes	Winterization Lighting Tool Boxes Racks Cabinets					
8" diameter 7' extension	320	Dumping, tilting debris body	Right side	Yes	Winterization Lighting Tool Boxes Racks Cabinets					
6" diameter	300	Dumping, tilting debris body	Right side	Yes	Winterization Lighting Tool Boxes Racks Cabinets					
8" or 10" diameter	320	Dumping, tilting debris body	Right side	Yes	Winterization Lighting Tool Boxes Racks Cabinets					



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# Hawaii Case Has Far-Reaching Implications for Wastewater Professionals

The U.S. Supreme Court says wastewater pros need to think about where discharges go | David Steinkraus

**A**fter a lot of buildup, the U.S. Supreme Court's decision in a closely watched wastewater case turned out to be less than definite.

The case involved Maui County in Hawaii, which for years has disposed of effluent from its wastewater treatment plant in deep injection wells. Scientists found that effluent migrates through the soil and groundwater and enters the Pacific Ocean. Environmental groups sued and asked federal courts to require a National Pollutant Discharge Elimination System permit for the wells, just as permits are required for other discharges into navigable waters. The worry for wastewater professionals was that the court would say *any* discharge to groundwater, such as from an onsite system, would require an NPDES permit.

In a 6-3 opinion, the court says it would — or maybe not. It all depends.

## Some clarity

“What this opinion has effectively done is solidify the law to confirm that the Clean Water Act, in certain instances, does apply to discharges to groundwater,” says Joel Johnston, an associate in the Denver office of law firm Hall Estill. “So I think the court has provided a little bit of clarity.”

In doing that, the court threw out a test developed by the 9th U.S. Circuit Court of Appeals in San Francisco, which heard the case from Maui first. That test says permits would be required for discharges that are “fairly traceable” to a point source. But, Johnston says, the Supreme Court decided the appeals court test would require too many activities to have permits.

“And the court said, based on that, the Clean Water Act was not intended to address any discharge into groundwater. It’s only intended to address discharges where the discharge is a functional equivalent of a discharge into a navigable water,” Johnston says.

From a technical regulatory point of view, the court laid out a seven-factor test that courts, regulators and installers need to look at in deciding whether a discharge is functionally equivalent, says Mary-Lynn Coffee, senior environmental partner in the Irvine, California, office of the law firm Nossaman.

Those factors include the time and distance a pollutant has taken to travel through groundwater, and these are generally the most important factors, the court wrote; the nature of material the pollutant has travelled through; the extent of dilution; the amount of pollutant entering a navigable water versus the amount discharged from the source; the manner by which

the pollutant enters the navigable water or the area where it enters; and the degree to which the pollutant has maintained its identity.

“I think the test is as clear as any regulatory test ever is,” Coffee says.

“I thought it was very good that the court talked about what changes in the character of the pollutant had occurred, the degree to which the pollution had maintained its specific identity or changed into something else,” she says. “That factor allows consideration of the degree to which both chemical and natural filtration processes relied upon by onsite filtration systems provide treatment of waste prior to its arrival in a surface water.”

Whether a discharge needs a permit is now an issue to be resolved by lower courts and state and federal agencies, Johnston says. An important point in this case, he says, is the Supreme Court did not say that Maui County needs a permit. Instead, the case was sent back to the 9th U.S. Circuit Court of Appeals, which will make that decision.

When doing an onsite project, try to develop technical information about the soils in the area, groundwater, groundwater flow, distance to surface water and other information related to the factors laid out in the court's functional equivalent test.

How much onsite regulations will change depends on the state, Coffee says. In California there may not be many changes because the state-wide policy already contains requirements like those the court outlined in the Maui decision, she says. In states that have not taken into account the potential for effluent to migrate to surface waters, expect new standards or perhaps an NPDES permit.

Both attorneys say the court's opinion still leaves a lot of gray areas. It also leaves room for a good deal of factual material and analysis by hydrologists, geologists, soil scientists and other specialists who can determine where a pollutant will go and what will happen to it, Coffee says. “So applying it on the ground, I think that's pretty tough. But so are the regulations that exist in many places today.”

## What you can do

For installers wondering how to avoid problems under the court's ruling, Johnston says the solution may be to talk to regulators before there are questions about a potential violation or noncompliance. But it's also not wise to simply ask whether a permit is necessary. Instead, he says, develop a position based on facts and an analysis of the situation, and ask the regulator if that position is correct.

Another type of uncertainty stems from the Clean Water Act itself because it allows for lawsuits by private citizens, Johnston says.

"That's where the risk is. If you don't get the permit and a citizen suit is brought, you could be caught having to spend substantial sums to deal with it," he says. "We're corporate attorneys. From our perspective, the clarity my clients don't have is whether an activity is subject to permit."

Coffee recommends two actions for wastewater professionals. First, when doing an onsite project, try to develop technical information about the soils in the area, groundwater, groundwater flow, distance to surface water and other information related to the factors laid out in the court's functional equivalent test. Use that information to guide siting, installation and operation, and then keep the information as protection in case there is a legal or enforcement challenge. Second, she says, become involved with your state wastewater organization, and through that try to work with regulators in developing the rules they will use and the guidance they may produce to comply with the court's ruling. There is protection from liability for an onsite system owner and installer if a system has been installed in accordance with regulations, she says.

Although it is California-specific, Coffee says, the water board policy for onsite systems does take the court's ideas into account. If you want to look at it, follow this link: [www.waterboards.ca.gov/water\\_issues/programs/owts/board\\_adopted\\_policy.html](http://www.waterboards.ca.gov/water_issues/programs/owts/board_adopted_policy.html).

## The next disagreements

The majority opinion came from the four justices generally viewed as more liberal — Stephen Breyer, Sonia Sotomayor, Ruth Ginsburg and Elena Kagan — along with Chief Justice John Roberts and the newest justice, Brett Kavanaugh. Dissenting were the more conservative justices: Clarence Thomas and Neil Gorsuch in one opinion and Samuel Alito in another. If you want to read the full opinion, you will find it here: [www.supremecourt.gov/opinions/19pdf/18-260\\_jfl.pdf](http://www.supremecourt.gov/opinions/19pdf/18-260_jfl.pdf).

It's unlikely there will be more litigation about the rule right away in lower courts, Coffee says. "I really think the first battle we're going to see, because the court invited it, is a battle over (U.S. Environmental Protection Agency) regulations. The court invited EPA to promulgate more specific implementing regulations consistent with their opinion," she says, "and when they do so, litigation over the regulations is probably inevitable."

But given the number of issues EPA is already dealing with, she says, it's very unlikely any new regulations would be adopted before November.

## Reclamation started it

The case started with Maui County because for years it has sent municipal wastewater through its Lahaina Wastewater Reclamation Facility. That plant treats incoming wastewater, disinfects it with ultraviolet light and sends it out to irrigate golf courses and landscaping. Excess water is sent to several injection wells.

From 2011 through 2012, University of Hawaii researchers working for the EPA, Hawaii Department of Health, and U.S. Army Engineer Research and Development Center in Vicksburg, Mississippi, used a tracer dye to follow the flow of water from the injection wells. Their study found that treated wastewater was flowing into groundwater and back into the ocean near Kahakuli Beach. There it was linked to algae blooms that smother coral reefs and cause other environmental damage.

The largest concentration of dye appeared in the ocean nine to 10 months after injection at the wells, the study says. Researchers estimated it would take about four years for the last bit of dye to enter the ocean.

In a column for *The Maui News*, Maui Mayor Michael Victorino writes, "The court's direction is what I have asked for all along — clear direction for regulation. The court's test gives the county and the state Department of Health a road map moving forward. It provides clarity before we commit taxpayer dollars toward long-term environmental solutions. So far, the county has spent \$48 million on recycled water projects, and it has another \$82 million in projects planned or in process in the near future."

In September 2019, the County Council voted to settle the case, which in most cases would have led to the withdrawal of the case before it was argued at the Supreme Court. But Victorino refused to settle. That set off a struggle over who had the ultimate power to determine a legal settlement, the council or the mayor, but it also ensured the case was argued before the court. **P**

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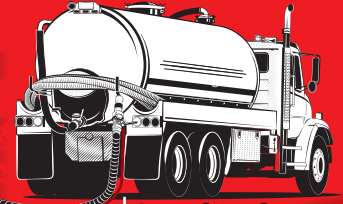
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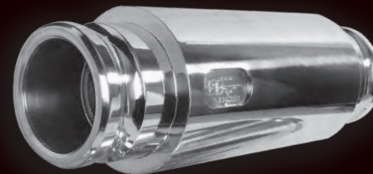
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If you would like your wastewater trade association added to this list, send contact information to [editor@pumper.com](mailto:editor@pumper.com).

## Serving the Industry

Visit your state and provincial trade associations

### Alabama

Alabama Onsite Wastewater Association  
[www.aowainfo.org](http://www.aowainfo.org); 334-396-3434

### Arizona

Arizona Onsite Wastewater Recycling Association  
[www.azowra.org](http://www.azowra.org); 928-443-0333

### Arkansas

Arkansas Onsite Wastewater Association  
[www.arkowa.com](http://www.arkowa.com)

### California

California Onsite Wastewater Association  
[www.cowa.org](http://www.cowa.org); 530-513-6658

### Colorado

Colorado Professionals in Onsite Wastewater  
[www.cpow.net](http://www.cpow.net); 720-626-8989

### Connecticut

Connecticut Onsite Wastewater Recycling Association  
[www.cowra-online.org](http://www.cowra-online.org)  
860-267-1057

### Delaware

Delaware On-Site Wastewater Recycling Association  
[www.dowra.org](http://www.dowra.org)

### Florida

Florida Onsite Wastewater Association  
[www.fowaonsite.com](http://www.fowaonsite.com)  
321-363-1590

### Georgia

Georgia Onsite Wastewater Association  
[www.onsitewastewater.org](http://www.onsitewastewater.org)  
706-407-2552

Georgia F.O.G. Alliance  
[www.georgiafog.com](http://www.georgiafog.com)

### Idaho

Onsite Wastewater Association of Idaho  
[www.owaidaho.org](http://www.owaidaho.org); 208-664-2133

### Illinois

Onsite Wastewater Professionals of Illinois  
[www.owpi.org](http://www.owpi.org)

### Indiana

Indiana Onsite Waste Water Professionals Association  
[www.iowpa.org](http://www.iowpa.org); 317-889-2382

### Iowa

Iowa Onsite Waste Water Association  
[www.iowwa.com](http://www.iowwa.com); 515-225-1051

### Kansas

Kansas Small Flows Association  
[www.ksfa.org](http://www.ksfa.org); 913-594-1472

### Kentucky

Kentucky Onsite Wastewater Association  
[www.kentuckyonsite.org](http://www.kentuckyonsite.org)  
855-818-5692

### Maine

Maine Association of Site Evaluators  
[www.maine.com](http://www.maine.com)

Maine Association of Professional Soil Scientists  
[www.mapss.org](http://www.mapss.org)

### Maryland

Maryland Onsite Wastewater Professionals Association  
[www.mowpa.org](http://www.mowpa.org); 443-570-2029

### Massachusetts

Yankee Onsite Wastewater Association  
[www.maowp.org](http://www.maowp.org); 781-939-5710

### Michigan

Michigan Onsite Wastewater Recycling Association  
[www.mowra.org](http://www.mowra.org)

Michigan Septic Tank Association  
[www.msta.biz](http://www.msta.biz); 989-808-8648

### Minnesota

Minnesota Onsite Wastewater Association  
[www.mowa-mn.com](http://www.mowa-mn.com)  
888-810-4178

### Mississippi

Mississippi Pumpers Association  
[www.mspumpersassociation.com](http://www.mspumpersassociation.com)  
601-249-2066

### Missouri

Missouri Smallflows Organization  
[www.mosmallflows.org](http://www.mosmallflows.org)  
417-631-4027

### Nebraska

Nebraska On-site Waste Water Association  
[www.nowwa.org](http://www.nowwa.org); 402-476-0162

### New Hampshire

New Hampshire Association of Septage Haulers  
[www.nhash.com](http://www.nhash.com); 603-831-8670

Granite State Designers and Installers Association  
[www.gsdia.org](http://www.gsdia.org); 603-228-1231

### New Mexico

Professional Onsite Wastewater Reuse Association of New Mexico  
[www.powranm.org](http://www.powranm.org); 505-989-7676

### New York

Long Island Liquid Waste Association, Inc.  
[www.lilwa.org](http://www.lilwa.org); 631-585-0448

### North Carolina

North Carolina Septic Tank Association  
[www.ncsta.net](http://www.ncsta.net); 336-416-3564

North Carolina Portable Toilet Group  
[www.ncportabletoiletgroup.org](http://www.ncportabletoiletgroup.org);  
252-249-1097

North Carolina Pumper Group  
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252-249-1097

### Ohio

Ohio Onsite Wastewater Association  
[www.ohioonsite.org](http://www.ohioonsite.org); 740-828-3000

### Oregon

Oregon Onsite Wastewater Association  
[www.o2wa.org](http://www.o2wa.org); 541-389-6692

### Pennsylvania

Pennsylvania Association of Sewage Enforcement Officers  
[www.pa-seo.org](http://www.pa-seo.org); 717-761-8648

Pennsylvania Onsite Wastewater Recycling Association  
[www.powra.org](http://www.powra.org)

Pennsylvania Septage Management Association  
[www.psma.net](http://www.psma.net); 717-763-7762

### Tennessee

Tennessee Onsite Wastewater Association  
[www.tnonsite.org](http://www.tnonsite.org)

### Texas

Texas On-Site Wastewater Association  
[www.txowa.org](http://www.txowa.org); 409-718-0645

Education 4 Onsite Wastewater Management  
[www.e4owm.com](http://www.e4owm.com); 713-774-6694

### Virginia

Virginia Onsite Wastewater Recycling Association  
[www.vowra.org](http://www.vowra.org); 540-377-9830

### Washington

Washington On-Site Sewage Association  
[www.wossa.org](http://www.wossa.org); 253-770-6594

### Wisconsin

Wisconsin Onsite Water Recycling Association  
[www.wowra.com](http://www.wowra.com); 888-782-6815

Wisconsin Liquid Waste Carriers Association  
[www.wlwa.com](http://www.wlwa.com); 888-782-6815

### NATIONAL

Water Environment Federation  
[www.wef.org](http://www.wef.org); 800-666-0206

National Onsite Wastewater Recycling Association  
[www.nowra.org](http://www.nowra.org); 800-966-2942

National Association of Wastewater Technicians  
[www.nawt.org](http://www.nawt.org); 800-236-6298

### CANADA

#### Alberta

Alberta Onsite Wastewater Management Association  
[www.aowma.com](http://www.aowma.com); 877-489-7471

#### British Columbia

WCOWMA Onsite Wastewater Management of B.C.  
[www.wcowma-bc.com](http://www.wcowma-bc.com)  
877-489-7471

British Columbia Onsite Sewage Association  
[www.bcossa.org](http://www.bcossa.org); 778-432-2120

#### Manitoba

Manitoba Onsite Wastewater Management Association  
[www.mowma.org](http://www.mowma.org); 877-489-7471

Onsite Wastewater Systems Installers of Manitoba, Inc.  
[www.owsim.com](http://www.owsim.com); 204-771-0455

#### New Brunswick

New Brunswick Association of Onsite Wastewater Professionals  
[www.nbaowp.ca](http://www.nbaowp.ca); 506-455-5477

#### Nova Scotia

Waste Water Nova Scotia  
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#### Ontario

Ontario Onsite Wastewater Association  
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Ontario Association of Sewage Industry Services  
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#### Saskatchewan

Saskatchewan Onsite Wastewater Management Association  
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#### Canadian Regional

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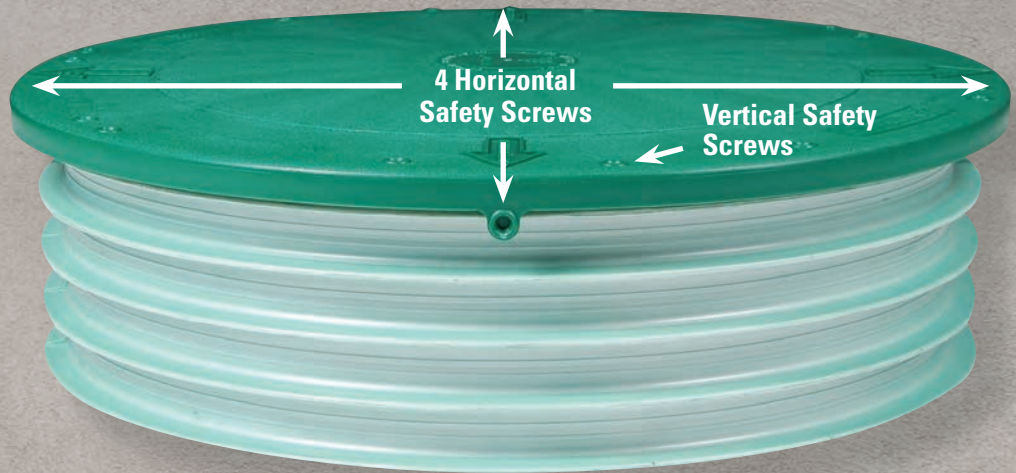
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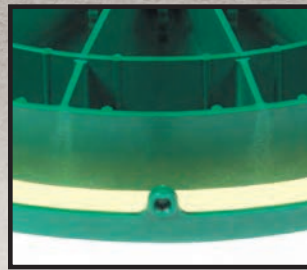
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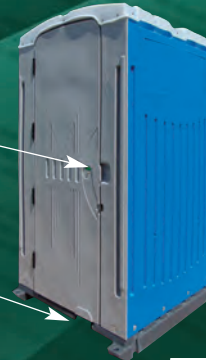
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# PFAS Found in Septage Is a Problem for Maine Wastewater Professionals

Chemical substances in wastewater are making disposal difficult for pumpers. Plus, installers in the state are expected to have trouble finding workers.

*In States Snapshot, we typically talk to a member of a state, provincial or national trade association in the decentralized wastewater industry. There isn't a formal group for pumpers and installers in Maine, so we are visiting with a contractor who is licensed through the Maine Department of Environmental Protection.*

**Name and title or job description:** Michael Martin, owner

**Business name and location:** Earthworks Inc., Presque Isle, Maine

**Services we offer:** Our primary work is excavation. It's a smorgasbord between commercial, residential and agricultural. For septic, we do installations and maintenance, and we also do municipal sewer lines.

**Age:** 61

**Years in the industry:** 34

**Association involvement:** We don't have a wastewater association. The Maine Department of Environmental Protection puts on seminars quite often. They have funds for low-income folks to help them put in a system, and we have to be licensed to do their work. You take a course through [the DEP] and get a license with continuing education requirements every three years. Mine is for septic excavation, and I'm licensed to do shoreline excavation along lakes, rivers and streams.

**Biggest issue facing your industry right now:** Getting rid of the sludge and sewage we pump out of tanks is our biggest issue because of PFAS (per- and polyfluoroalkyl substances, which are a group of man-made chemicals) in the soil. They call them "forever chemicals." The chemicals are found in home cleaning products, and they get in with the sludge. The sludge up here is spread on the open ground, and now the chemicals are starting to build up in the soil. Right now we're about at the limit. All the sludge they're taking out of the wastewater treatment plants has to be put through a whole treatment process before they spread it. Or they may have to landfill it after it's treated, which is costly up here. The DEP is working with the municipal wastewater plant on it. There's a company that comes up and treats all their sludge.

**Our crew includes:** I have 12 people, plus or minus. My son Joshua is the vice president. He does day-to-day operations for the company. Another key guy is Matt Pelletier, one of the foremen. And my daughter-in-law — Joshua's wife, Laura — handles the office and book work.

**Typical day on the job:** I start at 5:30 a.m., and the crews leave around 6 a.m. After I get the crews going, I'm looking at jobs, meeting customers, doing estimating and going to hot spots. Most of the time we have three separate jobs going, so I'm bouncing around between them, answering questions, checking on things and talking to the customers. Every once in



**Above:** Michael Martin, owner of Earthworks in Presque Isle, Maine, is with his Bobcat T650 track loader.

a while I have to run equipment or do a little operating, but it's getting less and less now.

**The job I'll never forget:** I was replacing a septic tank for a customer a number of years ago. We had the old tank dug out and I was putting the cables on to lift it up. It was an old concrete tank — I don't know if it was homemade or not — and I was standing on top of it and the cover caved in. I went to the bottom of the tank and shattered my ankle and leg. I was in a leg cart that you put your knee on and push yourself around in for the rest of the summer. It didn't slow me down. I was still working. When you own your own business, you keep on going. You find a way. I did have to hire a driver — it was my right leg — so one of my friends who had retired drove me around.

**My favorite piece of equipment:** I like our Volvo 145 excavator and our Bobcat T650 track loader. We'll use both for septic systems because they're so versatile and have zero tail swing: You're not tearing trees down when you get in tight areas.

**Most challenging site I've worked on:** Working along the lakes where there are smaller lots and we are working around trees can be challenging. People don't want the trees taken down. And when you're working around a lake, you go by the DEP rules: They only let you take down so many trees. Our county has a lot of different soils so you never know until you actually



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dig your test holes what kind of system to use. We put in a lot of different ones around here, depending on the soil. It could be an Eljen system, Presby Environmental system or stone bed.

**The craziest question I've been asked by a customer:** I put a septic system in for a guy I went to school with, a good friend of mine. I got it all done and gave him the bill. He wrote the check and his wife looked at me and said, "Man, that's a lot of money to make in one week. Dave doesn't make anything like that." She thought the whole check was all profit.

**Best piece of small-business advice I've heard:** My wife told me this — "Call your customers back whether you can do their job or not."

**Planning for the future:** My son is going to be taking over the company. We started the buyout process a couple years ago, so that's a real nice situation for me — having somebody willing to take it over. It's getting to the point now that I can have a little free time. Other than that, we don't plan to change anything for the future unless the county grows, which hasn't happened. The population is actually shrinking up here.

**If I wasn't working in the wastewater industry, I would:** When I was younger, I farmed. I was brought up on a potato farm and farmed for seven years back in the '80s — which, farming was a disaster in the '80s. It was a good way of life, but I don't miss it. I like what I do.

**Crystal ball time — This is my outlook for the wastewater industry:** I see some new designs in septic systems that are coming out, which seem to be smaller beds that take up less space so you can put them in smaller areas — and step systems. The labor force is really tight around here. There's all kinds of work, but we have trouble getting people who want to work. We've been swamped for the last two or three years. **P**

- Compiled by Betty Dageforde



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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](mailto:editor@pumper.com).

# Getting the Lowdown on Water Tables While House Hunting

Service providers and homebuyers can follow these tips to investigate important site conditions to forecast issues that could arise after the purchase | **By Jim Anderson, Ph.D.**

I often receive questions from homeowners about their septic systems. It's no surprise that they are usually about a specific problem they are having. Recently I received a different kind of question. A person was being relocated for work and was looking at houses in different locations outside a metropolitan area. The question was how to find out if there are problems with high groundwater in the area. This homeowner had lived in a home where the septic system was replaced due, at least in part, to the presence of saturated soil near the surface; and the person did not want to have the same problem in a new home.

Service providers recognize the value of knowing soil and water conditions in the area where they work. When a call comes in from a homeowner about a problem, you anticipate before you even leave the shop some of the conditions you are likely to encounter. As you head to the location, you are already planning for the process of troubleshooting the system.

However, what if you are relatively new to the business or area? Where do you find information on soils and water tables? One answer is to visit the local planning and zoning office (you need to know them anyway to get permits and inspections); your local soil and water conservation district office (usually located near planning and zoning); and state environmental and natural resource agency offices (for me, this is the Department of Natural Resources). All of these agencies can point you toward sources of information on not only water tables and aquifers, but also flood plains and soil information.

A geologic atlas prepared by the state or U.S. Geological Survey, while providing information on the presence and depths of regional aquifers, usually does not show water tables, which we are most concerned with for siting and operation of individual wastewater treatment systems. I say this not because the information isn't useful, but because the depths of even near-surface aquifers are usually well below the soil zones where we install our systems. We should be aware of them because we want to make sure our systems treat the wastewater before it moves into these aquifers.

## WETLANDS A CONCERN

The presence of wetlands (water at or near the surface) and periodic or seasonal perched water tables or saturated zones in the soil are of most concern to us. In the past, I have discussed soil characteristics used during site evaluations to identify these conditions. To refresh your memory, these

are "redoximorphic features." If you want to know something about these conditions before you leave for the site, the soil survey for your county or region is a primary source.

In the past, I would have told the homeowner or service provider to visit the county soil and water conservation district office for a hard-copy report for the county. One flaw in this approach was that all county soil surveys were not conducted at the same time. While the soil map has not

**More than 95% of the country is mapped. Except for the most remote areas, maps and information are available. Online surveys still present soil lines on a photographic background indicating boundaries between soil types.**

changed, the understanding of the soils and their physical and chemical characteristics continues to get better as more data is collected by the Natural Resources Conservation Service and its state university partners. Fortunately, there is now an online tool to look up soils survey information, and the data and interpretations are kept up to date.

The maps and data are available at [websoilsurvey.nrcs.usda.gov](http://websoilsurvey.nrcs.usda.gov) or simply type "web soil survey" in your browser. More than 95% of the country is mapped. Except for the most remote areas, maps and information are available. Online surveys still present soil lines on a photographic background indicating boundaries between soil types.

Once on the website, locate the parcel you are interested in by either using the zoom function provided or inputting GPS coordinates, county, address, township, range or section. An area of interest can be outlined, and the soil map can be accessed. Data is found on the soil map units found on the site and soil series descriptions. Along with data tables covering physical and chemical characteristics, it covers suitability and limitations for various uses.

## ONLINE MAPPING

Having this information does not mean you don't have to do any work in the field, but it gives you information to help guide your fieldwork, whether it's a site evaluation for a new system or troubleshooting a problem

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for a homeowner. Soil surveys identify areas with similar soils and landscape properties and delineate those areas as unique mapping units. These units are delineated on soil properties (texture, color, structure and organic matter) and depth to water table, saturated zones, bedrock and other limiting characteristics.

The online maps have the same scale limitations for site work as the hard-copy versions. At the scale of most surveys, the smallest delineation is 2 to 5 acres in size. Since we work in areas on a lot of 2,000 to 3,000 square feet, we still have to evaluate the soil at the location to see if the soil properties fit our proposed use.

One other point on map units is that, by definition, up to 30% of the map unit can be of soils varying from the soil as mapped. These inclusions, as they are called, are also in the description. Looking at the data for those inclusions, as well as the primary soil mapped, will provide a clearer picture of what you will find at your site when you evaluate the soil.

By looking at the soil survey, the homeowner who submitted the question could determine the probability of encountering problems with water tables on the properties being considered. This can help the person ask the right questions when evaluating each property and might be factored into the purchase price. **P**

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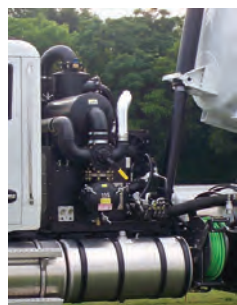
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By Craig Mandli

## BLOWERS

### Howden 827 DVJ

The 827 DVJ dry-vacuum blower from Howden is a heavy-duty unit with integral ductile iron impellers. The casing head-plates, gear cover and drive-end are gray iron. Carburized and ground spur timing gears are taper-mounted on the shaft and secured with a locknut, cylindrical roller bearings, splash lubrication on both ends, and easy-to-read sight glasses for maintenance. The blower is capable of handling high inlet temperatures for rough applications. An efficient discharge jet plenum design allows cool atmospheric air to flow into the cylinder, so the blower continues to run under blank-off conditions. It comes in a compact, lightweight package and delivers more than 5,700 cfm in an 8-inch gear diameter frame, as well as 28 inches Hg. **800-557-6687; www.howdenroots.com.**



### National Vacuum Equipment Challenger 1600

The **Challenger 1600** high-vacuum blower from **National Vacuum Equipment** is a 1,600 cfm tri-lobe blower designed for continuous duty at maximum vacuum. It employs uniquely designed rotors to significantly improve vacuum efficiency and reduce mechanical noise. The blower has a ballast air-cooling design and will work continuously in maximum vacuum (typically 27 inches Hg). **800-253-5500; www.natvac.com.**

## HYDROEXCAVATION TOOLS

### Dynablast HV420

Custom **Dynablast HV420** hydrovac water heaters produce 420,000 Btus with an output temperature of 175 degrees F at 5 gpm, making them suitable for colder climates and improved digging in clay-filled areas. All models comes with ETL certification for safety, which also includes certification on the coil for higher efficiency and heat transfer, a stainless steel target plate for



increased coil life and momentary override control. They include an Interpump Group T 2040 water pump package providing 10.5 gpm at 2,900 psi and 1,750 rpm, as well as a hydraulic package with Sunfab 34 cc motor. All components are custom-mounted in a 24-by-24-inch cabinet. **905-867-4642; www.dynablast.ca.**



### Easy Kleen Pressure Systems Wildcat Heaters

**Wildcat Heaters** high-pressure, oil-fired hot-water/steam heaters and hydraulic pump systems from **Easy Kleen Pressure Systems** are designed for reliability and efficiency and are installation-ready for vacuum trucks and hydroexcavators. Heater options include dry steam, redundancy

packages, Schedule 80 and 160 stainless steel or A53 boiler pipe, fine-tuned temperature and flow-control systems. All coils are manufactured in-house, with CRN boiler-approved coils available. Heaters can be designed for mounting in a cabinet or supplied as a completed cabinet unit. They are CSA and ETL approved. Hydraulic pumping systems are available. **800-315-5533; www.easykleen.com.**

### Hydra-Flex Machete

The **Machete** hydroexcavating nozzle from **Hydra-Flex** channels water in an oscillating motion, creating a smaller spray angle and a direct stream with a more forceful impact. This premium penetration will allow faster digging and more precise trenching capabilities. Its durable, replaceable cover allows for instant changeability while increasing the overall nozzle's life span. It is available in three sizes, with operating pressure ranges from 1,000 to 3,200 psi and a heat rating of 180 degrees F. Generating more power, it will last in excess of 500 hours, improving digging times and replacement costs. **952-808-3640; www.hydrflexinc.com.**



### Soil Surgeon hydroexcavating tool

The **Soil Surgeon** hydroexcavating tool fits any sewer combination truck equipped with a telescoping 6- or 8-inch boom. The tool has a 1-inch water connection. The operator controls water pressure and power through truck controls. It has a 6-foot Tuff Tube with handles to guide the unit down for potholing or side to side for trenching. Six jets boring inward cut the soil, while six boring outward bring the tube down. **949-363-1401; www.soilurgeoninc.com.**



## HYDROEXCAVATION UNITS



### GapVax HV33

Designed to safely transport water and debris in urban areas, the **GapVax HV33** is shorter, smaller and more compact than its predecessor. It is 30 feet long overall on a medium-duty chassis and includes a 600-gallon water tank, 6-cubic-yard debris body, 6- or 8-inch top-mounted telescoping boom with a 14- to 17.5-foot reach, 4,000 cfm power and an inverted, full-opening tailgate. **888-442-7829; www.gapvax.com.**

### HotJet USA Vac 'n Jet Series

The **HotJet USA Vac 'n Jet Series** of vacuum trailer jettors are rugged and compact; have been engineered to haul equipment and spoils loads; can clean valve boxes and storm drains; and can hydro-excavate and/or clean drainlines and sewer lines. They offer hot- and cold-water operation with a choice of engine options ranging from 13 to 66 hp and gas or diesel operation. They are equipped with premium triplex pumps, a 500-gallon spoils tank, 200-gallon water tank, Gardner Denver vac/blowers, a 4-ton hydraulic dump and Centri-Clean filter system. They can also be custom-engineered and designed to meet specifications. **800-624-8186; www.hotjetusa.com.**



### Rival Hydrovac T7 Tandem

The **T7 Tandem** hydrovac from **Rival Hydrovac** was designed primarily to be loaded with debris and driven within legislated road limits with most types

of debris on board. The unit comes standard with a scale that reads real-time weights both in the cab and on the wireless remote to confirm weights prior to travel. It is operator friendly, and the operating system is engaged through one PTO switch. The remainder of the operation occurs from the rear panel or the wireless remote. **403-550-7997; www.rivalhydrovac.com.**

### Super Products Mud Dog

The **Mud Dog** hydroexcavator from **Super Products** is designed for operator convenience and consistent performance in the harshest environments, according to the maker. It offers an air-excavation option, allowing the operator to choose water or air. It is available with a 12- or 16-yard debris capacity. It comes standard with safe tilt ejection unload-



ing and is equipped with a rear-mounted boom that can reach 27 feet with a 335-degree rotation and can move in a 45-degree-upward and 25-degree-downward pivot for convenient positioning within dig areas. **800-837-9711; www.superproductsllc.com.**



### Tornado Global Hydrovacs F4 ECOLITE

The **F4 ECOLITE** from **Tornado Global Hydrovacs** has a 12-cubic-yard mud tank and holds 1,550 gallons of freshwater. The unit is more

than 7,000 pounds lighter than the company's older models and offers more than double the payload. The boom has a 342-degree rotation and 26-foot reach. The smaller **F3 ECOLITE** is a 10-cubic-yard, 1,250-gallon tandem-axle unit that more than doubles older payload capacities. It features an 8-inch boom and 3,800 cfm blower. **877-340-8141; www.tornadotrucks.com.**

### Transway Systems Terra-Vex HV38

The **Transway Systems Terra-Vex HV38** has a 12-yard debris tank with onboard scales for efficient hauling and offloading, complete with a 26-foot-by-8-inch telescopic boom. It has a one-touch-operated hydraulic half-door with a 3,800 cfm at 27 inches Hg hydraulically driven blower. Water pressure is achieved with a hydraulically driven triplex pump, delivering 10 gpm at 3,600 psi from a 1,000-gallon HDPE baffled water tank. The water is heated with a 420,000 Btu diesel-fired burner for cold-weather operation. **800-263-4508; www.transwaysystems.com.**



### TRUVAC by Vector Paradigm

Designed for utility, municipal and contractor customers involved in the installation, maintenance and repair of underground water, sewer, gas, electric and telecommunications lines, the **Paradigm** sub-compact vacuum excavator from **TRUVAC by Vector** can

dig holes with water or air; vacuum, contain and dispose of drill mud; power pneumatic, hydraulic or electrical tools; and provide transport and storage of replacement parts, equipment and tools. The truck's Park-n-Dig design minimizes time between job site arrival and excavation, including the ability to dig up to 6 feet without additional pipe and hose. The air compressor powers utility tools such as jackhammers and tampers. The truck offers tool storage space, including a long-handle toolbox. The truck can tow up to 20,000 pounds. **800-627-3171; www.truvac.com.**

(continued)

**Vac-Con X-Cavator**

The **X-Cavator** hydrovac from **Vac-Con** includes a cold-weather enclosure for the water systems and control panel, as well as an interior area for operator seating and workspace. Unit filtration is based off of the Titan combination machine, with a single cyclone design and final cartridge-style filter. The redesigned boom is lightweight and flexible, rotating 310 degrees around the unit and moving plus 45 degrees and minus 22 degrees vertically. The durable rubber hose material can withstand harsh environments and has a reach of 26 feet. **904-284-4200; www.vac-con.com.**



**Vacall AllExcavate**

The **Vacall AllExcavate** hydroexcavator is suitable for excavating soil, rocks and clay around utility lines and foundations. It uses high-pressure jetting action up to 24.5 gpm with up to 3,000 psi to loosen material. A 27-inch Hg and 5,800 cfm vacuum suctions the material and

water slurry into the debris tank. The multistage vacuum filtration system has a simplified design to reduce maintenance, extend performance and increase working life. As material is deposited into the debris body, air continues to move through a dual cyclone separator where more material particles and moisture are removed. The filtered air then passes through the blower, silencer and exhaust. All models are available with three different vacuum boom tube and hose designs to accommodate customer preference. **800-382-8302; www.vacall.com.**

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**Imperial Industries' 2020 Freightliner 108SD** includes a fully remote-controlled vacuum system. It comes with a 4,200-gallon painted aluminum tank with a National Vacuum Equipment Challenger 4310 blower (940 cfm). Functionality includes full control of the tank's PTO and pneumatic valves, providing operators with the ability to switch between vacuum, neutral and pressure modes without leaving a septic tank access point. The bottom third of the tank is double-plated, and the tank is painted black with a diamond-plate chip guard, full flanged and dished heads for baffles, a hot shift PTO, one 4-inch vacuum inlet with lever valve, one 6-inch discharge with piston valve with a handle, three 5-inch sight glasses on the rear tank head, full-length aluminum hose trays, a SeeLevel indicator, a 24- by 24- by 24-inch aluminum toolbox, Department of Transportation LED light package, two rear LED work lights and an adjustable stainless steel rear bumper. **800-558-2945; www.imperialind.com.**



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The **Presvac Systems** lineup of jetting trucks provides a complete range of cleaning solutions for pipes 4 to 100 inches in diameter. Powerful vacuum provides the effective removal of flushed material. Modular filtration configured to blower size provides blower protection with minimal maintenance. The pictured unit has a split-compartment aluminum tank, including 300 gallons water and 4,700 gallons debris. It has a Robuschi Robox 65 blower, 900 cfm free air and 27 inches Hg maximum vacuum. Its US Jetting pressure pump provides 18 to 20 gpm at 4,000 psi. It comes with a head-mount hose reel, 250 feet of 1/2-inch jetting hose, a 5 gpm at 2,000 psi washdown pump and 50 feet of 3/8-inch hose. Heated valves and a winterizing system for the water system are available. **800-387-7763; www.presvac.com.**



**Sewer Equipment Model 900 ECO**

The **Model 900 ECO** from **Sewer Equipment** is available in 6-, 9-, 12- or 15-yard debris capacities, equipped with Duraprolene water tanks carrying 900 to 2,100 gallons of onboard water. Its Hydro Drive powertrain system eliminates the need for a transfer case. Both single-piston and triplex pump options are available at 55 to 80 gpm at 2,000 to 3,000 psi with a 4,400 cfm blower and 18 inches Hg, and they are built on an eco-friendly platform that provides greater fuel efficiency and offers noise reduction. **888-477-7611; www.sewerequipment.com.**

**Vector IMPACT**

The **IMPACT**, a versatile combination sewer cleaner from **Vector**, has a compact design to easily maneuver through tight spaces. It offers the IntuiTouch control system. Inside the cab, one-touch controls are used for quick PTO activation and engagement. Outside the cab, a rotating control panel with up/down adjustment has a touch screen and glove-friendly tactile buttons, providing immediate data. The Jet Rodder water pump provides continuous flows through its entire operating range. **800-627-3171; www.vector.com.**



**Vermeer MV Solutions Vac-Tron Jetter Truck Vac Series**

The **Vac-Tron Jetter Truck Vac (JTV) Series** from **Vermeer MV Solutions** combines powerful cubic-feet-per-minute vacuum excavation with high-pressure jetter capabilities. This versatile vacuum excavator is suit-

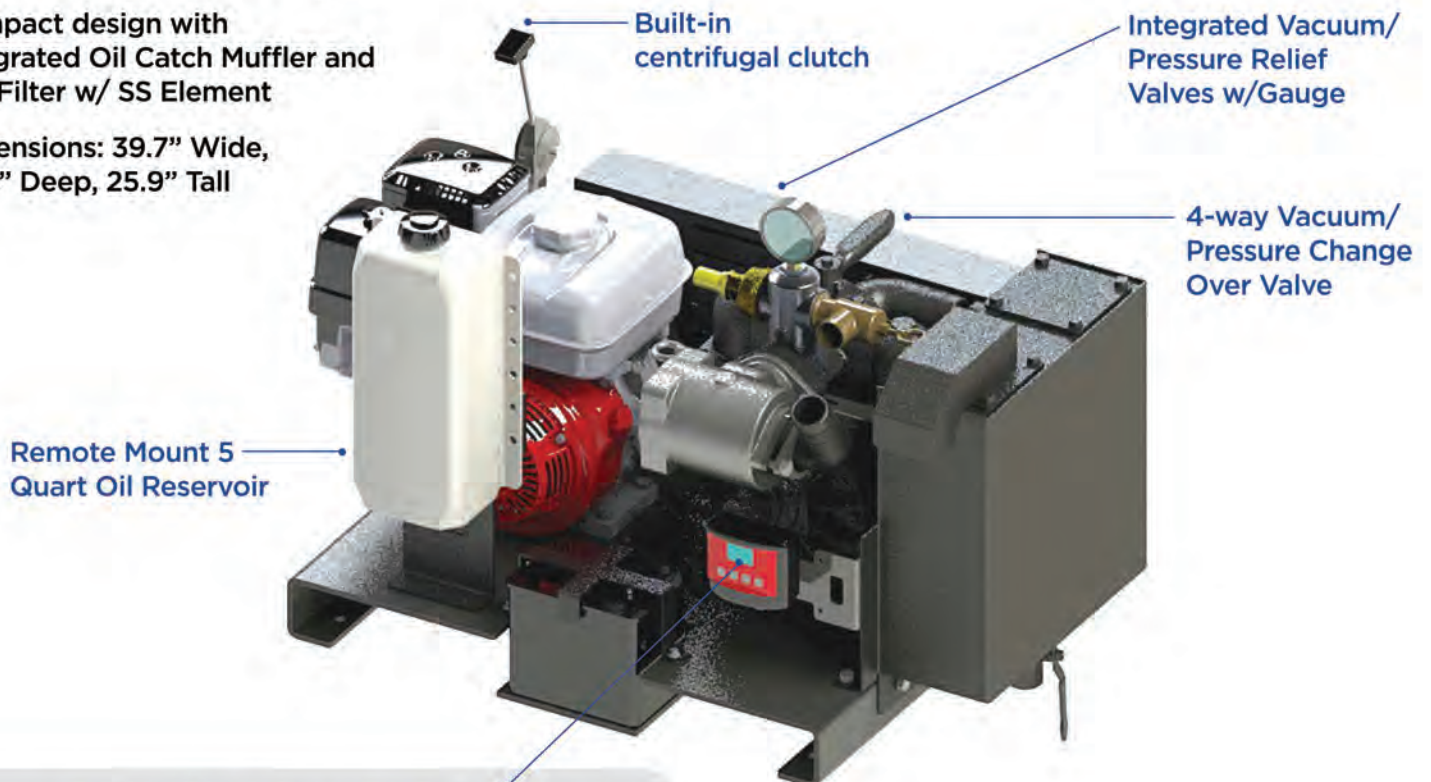
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able for sewer jetting, potholing, storm drain cleaning and lateral clean-out. It has in-truck component controls that eliminate the extra weight, space and cost of a pony motor. The power takeoff of the series offers a positive displacement vacuum blower that can suction at 1,000 cfm with 16 inches Hg. It also comes standard with reverse pressure, an 800-gallon debris tank, 300-gallon water supply, 15 gpm water pump with 3,000 psi, hydraulic rear door, filter housing and 425 feet of 1/2-inch jetter hose. The available towing package also efficiently tows other equipment to the job site. **888-822-8766; www.vermeermvs.com.**

**VACUUM PUMPS**

**Elmira Machine Industries / Wallenstein Vacuum 753 Series**

The **753 Series** vacuum pump from **Elmira Machine Industries / Wallenstein Vacuum** incorporates extra-wide vanes that allow up to an inch of wear, designed for longer service life. It provides 422 cfm airflow at 1,200 rpm and is precision-machined to provide vacuum levels up to 28 inches Hg. Options include air, liquid or dual cooling systems where air injection is combined with liquid cooling. A pump-flushing port is included on the top valve for convenient maintenance. The quick-access housing end plate allows for easy internal inspection with no bearings to pull. Oil lubrication is via a mechanical piston pump driven by shaft rotation or available with a sight-feed valve oil regulator system using vacuum/pressure to draw oil with no moving parts. **800-801-6663; www.wallenstein.com.**



**Fruitland 870 Series**

**Fruitland's 870 Series** pump allows high vacuum levels of 28.5 inches Hg and continuous vacuum of 27 inches Hg. Additionally, it is capable of providing 30 psi pressure for offloading. The oil consumed during pump operation is minimal, with only 1 gallon of oil for 18 hours of operation, which provides greater cost savings and reduces environmental

impact. Fruitland is less restrictive on the type of oil used in all its vacuum pumps, allowing customers to buy locally available, nonproprietary oil. The pump delivers 510 cfm (free air) through 4-inch porting. **905-662-6552; www.fruitlandmanufacturing.com.**



**Moro USA W Series PM80W**

The **W Series PM80W** liquid-cooled vacuum pump from **Moro USA** is suitable for a wide variety of applications, including septic, industrial, and oil and gas. It has oiled bearings that don't require additional maintenance, a sealed positive displacement direct-feed oiling system, Kevlar vanes, an integrated check valve and a changeover valve. A jacketed casing provides liquid cooling, allowing a deeper continuous-duty



vacuum. A coolant pump is available for self-contained packages. It includes industrial-duty Viton oil seals for superior pump life and is available in clockwise and counterclockwise rotations. **866-383-6304; www.moroussa.com.**

**Westmoor Conde SDS Ultra**

The **Conde SDS Ultra** vacuum pump from **Westmoor** pumps at 230 cfm and has an automatic oiling system that never needs adjusting. It incorporates the Conde Slide Valve (changeover valve), which is compact and low-profile and works easily, according to the maker. It is offered with either a pump-mounted or remote oil reservoir, with sealed high-temperature maintenance-free bearings. It can be driven by a variety of power sources including gas or diesel engines, PTO, right-angle drive or hydraulic pump. The unit is double-shafted and can be set up for either clockwise or counterclockwise rotation. **800-367-0972; www.westmoorltd.com.**



**CASE STUDY**

**Centrifugal pumps end cycling issue for manufacturer**

**Problem:** A Midwestern vacuum truck builder was experiencing constant overheating and failure of washdown pumps due to cycling. The manufacturer had been using a pressure switch, which was required because the pump they were using would fail if left on while not being used. Leaks in the lines and valves would constantly turn the pump on and off. Cycling was also causing the pressure switch to fail.



**Solution:** **DC10** centrifugal pumps from **MTH Pumps** (with the use of a simple bypass line) are designed to run for up to two hours at shut-off without any heat or mechanical seal problems. This eliminates the need for valves and pressure switches, reducing costs and the number of problems in the field. They are manufactured with all cast stainless steel wetted parts and a standard dry run seal.

**Result:** After more than five years of service, the manufacturer has a near-flawless record of no failures with the pumps. **630-552-4115; www.mthpumps.com.**



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

## CONDE PROVAC IS BUILT FOR EFFECTIVE SERVICE IN TIGHT SPACES

Not every pumping scenario can be handled by backing up a vacuum truck, loading the waste and driving away. Plenty of situations arise where industrial vacuum is needed in tight quarters where a truck cannot reach.

The Conde ProVac portable industrial pumpout station from Westmoor was designed for that purpose. At only 24 inches wide and 45 inches tall, it can fit through any standard and cargo van door. "It's primarily used to service indoor grease traps," says Robin Hendry, owner of Westmoor. "It is an excellent solution for locations not suitable for large vacuum truck hoses. It's ideal for the indoor and remote tough-to-get-to jobs."

Grease trap service is just one type of work the Conde ProVac unit is engineered to handle. It is also suitable for machine-coolant pumping, remote portable restroom service, marina vacuum pumping services or any other transfer of liquid waste.

A simple switch powers on vacuum mode for pumping, and operating is engineered to be simple with an easy-access front and user-friendly controls. It comes standard with a reverse-pressure option that is useful for breaking up coagulated material.

The ProVac is constructed of lightweight aluminum, keeping the appearance clean and professional. It uses a 1 1/2 hp Conde pump capable of 35 cfm and 120 gpm. The 110-volt electric motor is extremely quiet and works on any 15-amp service. It comes equipped with additional features including a 20-foot retractable cord reel, hose rack and tool holder, oil catch muffler with drain, charcoal exhaust deodorizer and 10 feet of 2-inch Plastiflex suction hose with hose-wand assembly. An electronic float will shut off the pump when reaching a capacity of 52 gallons.

The compact design makes this unit a versatile option for a variety of pumping needs; and its heavy-duty wheels and swivel casters are constructed to make it easy to maneuver into tight locations.

"We have been making this unit for 20-plus years," Hendry says. "We listened and responded to years of customer feedback."

Over the years, Westmoor has received positive feedback about the ProVac Pump Out System. "When we go to the liquid waste shows, our customers are the best advertisements with their positive testimonials," Hendry says. **800-367-0972; www.westmoorltd.com.**

## SEWER EQUIPMENT 800 SERIES IV TRUCK JET

The 800 Series IV truck jet from Sewer Equipment offers several features that are helpful in cold-weather applications. The rear door closes completely with the hose reel fully extended,

providing maximum heat retention inside the environmental enclosure where water components are stored. A new feature gives up to 20 gpm of hot water to feed the washdown reel, lateral reel and jetting circuits during cold-weather operations. A lack of PTO engagement allows for wintertime recirculation of the water system at highway speeds as a standard feature, saving the time otherwise spent blowing down the entire water system between job sites. The addition of a centralized water drain makes winterization easy, as there is only one drain to blow down, and a retractable canopy adds protection from the weather. **888-477-7611; www.sewerequipment.com.**



## BEE VALVE SPRAYER COMPONENT SYSTEM



The Bee Valve sprayer component system offers a fast, easy-to-use method for spray nozzle changes. The guide-rib system provides simple nozzle angle repeatability and is available in

single and double self-aligning ribs. The chemical-resistant, glass-reinforced nylon guide locks provide fast, easy spray nozzle changes. The guide locks are available in multiple sizes to fit all spray nozzles. Nozzle tips are available in single and double configurations, suitable for strip or dribble applications. The nozzle tips are also manufactured in glass-reinforced nylon for abrasion resistance and prolonged life. The barbed tip is designed for use with 1/2-inch I.D. hose, and nozzle sizes are imprinted on the tip for easy identification.

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September 25-26, 2020  
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Contact: Lauren Trujillo  
rets@rets-llc.com

**CPOW Inspector Course**  
October 6-7, 2020  
Location: Pueblo, CO  
Contact: Lisa Nicoll  
cpow@cpow.net

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### Soils Workshop Schedule

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Contact: Lisa Nicoll  
cpow@cpow.net

**University of Arizona**  
**Soil & Site Evaluation Course**  
October 21-23, 2020  
Location: AZ  
Contact: Aaron Tevik, 520-621-3691  
atevik@cals.arizona.edu

### Installer Training Course

**CPOW Installer**  
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## INDUSTRY NEWS

### Sewer Equipment announces new dealers

Sewer Equipment announced its newest full-line dealers: Brown Equipment Co. in Indiana, Ohio and Kentucky and MSC Equipment in Virginia. Since 1968, Brown Equipment has been a resource for sales, parts and service in both the government and private sectors, focusing on street and sewer maintenance equipment. MSC Equipment operates a full-service center with in-stock parts and accessories in Oilville, Virginia.

### Muncie Power Products announces new sales manager

Muncie Power Products named Bob Doucett regional sales manager for the East region. Doucett, who has been with Muncie Power Products for five years, will focus on leading the field sales team in the East. Previously Doucett served as field sales manager in the North Central region. **P**

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Portable toilet businesses for sale in central Kansas - 275 toilets, several more that needs repairs, 3 trucks, holding tanks, trailers, sinks etc. 150 to 200 toilet out most all the times. Many long time repeat customers over 30 years in business. \$350,000. Serious inquires only. Call or text 620-664-8004. (P10)

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**ESSENTIAL SEPTIC BUSINESS FOR SALE:** Septic system installer and operator family business. Master licensed DPOR alternative installer and operator with SDS contractor license. Install new conventional and alternative systems, repairs on all systems, maintenance contracts and septic tank pumping. If it's septic we do it. 32 years servicing the Northern Virginia area. Serving 8 different counties, well known and licensed by all local governing officials. Spectacular customer data base with continuance of service from repairs to annual maintenance. Owner will stay on for up to 2 years to train and smooth transfer of ownership as well as use of license for up to 4 years. Looking to retire and enjoy some traveling. 703-257-7867. (P09)

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## CATCH BASIN CLEANER



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2000 International with Cosco High Dump 27", DOT Certified, 412 with vacuum pump, pressure offload as well. Cummins Power with low miles and hours. KLM Companies 617-909-9044. (PBM)

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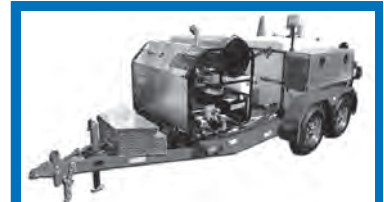
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2005 Sterling Vector 2115. 36PD, excellent condition. Miles: 167,911, LT9522 Detroit engine 515HP, Eaton Fuller 9-speed transmission, new roots 824RCSV, 18'PD-blower 3,500CFM. Telescoping/rotating hose reel, accumulator 1,300-gallon tank. 500' - 1" sewer hose, 15-yard tank. \$115,000. 631-903-9292. NY (P09)

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2013 Wells Cargo Ultralav, 3-stall, A/C, heat, antifreeze pump. Super clean, everything works as it should and ready to put to work the day you pick it up. Call Steve 863-581-5680 for pics and more info. (P09)

2010 Forest River, Century Series restroom trailer. 10 stall. \$26,000. Call Ashton for additional info. 334-389-7775. AL (P09)

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

2007 Ford F650, 5.9 Cummins DSL, automatic, Satellite portable toilet service truck. 1,000 waste/400 fresh. mileage 253,725, 2 toilet carrier on rear. Contact Dave 816-935-2663. Asking \$21,000. Located in Kansas City, MO. (P09)

2012 Dodge 5500 4x4 regular cab, Cummins diesel, 210,000 miles. TANK AND PUMP IS A 2016. 490-gallon stainless steel tank, Fruitland 250 vac pump, fan forced auto cooling 198 cfm 27" vacuum, AMT 12V wash-down pump, flat deck for 4 portables w/Tommy gate. \$55,000 Canadian Dollars. Email mark@centrelinesanitation.com. Ontario (P09)

2009 Sterling portable restroom truck. 300-gallons fresh water, 650-gallons waste. Diesel automatic, 347,174 miles. \$4,250. Call 507-327-5042 or 507-327-5041, email jrbruender@gmail.com. (P09)

2014 Hino 195 stainless steel pump truck, Best Enterprise built 1,050-gallon tank (300 water/750 waste), Conde PTO driven pump. Runs perfect and dealer maintained, 185k miles. \$31,999. Call 718-634-2780. (P11)



**2007 International 4200 VT365** portable toilet vacuum truck. 127,476 miles, Masport Vacuum Model hxl4de, Non-CDL, septic truck, new injectors, engine ECM and brakes. Progress aluminum tank (1,500-gal waste/500-gal fresh). Service is dual sided 3" suction, equipment bins and hose racks. 4" septic discharge. Truck is ready to work! \$39,000. **931-363-5379 or parrindustriesii@gmail.com. TN (P12)**



**Two trucks available for sale:** 2004 International portable toilet trucks, 1,400-gallon waste and 400-gallon water. \$22,500 each or best offer. Call 305-444-7681. Sold as is, ready to sell FOB. **Miami, FL. Email manager@friendlyjohn.com. (P10)**



**Texla Services Portable Toilet Service Truck Bodies** - Standard turnkey package mounted on your chassis includes: painted body, lighting, right angle Jurop, DC10, water hose, valves & plumbing and PTO. 1,100/400 - \$22,500; 700/300 - \$19,500; 1,700/600 - \$24,500. **Call 936-641-3938. Check us out on Facebook! (PBM)**

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**2002 Ford F550** portable toilet truck for sale. 325,402 miles. Asking \$10,000 OBO. **330-807-1490. (P09)**



**2013 Ford F550**, 2-wheel drive diesel, Satellite portable toilet service truck, 775 waste/400 fresh, DC10 style wash-down pump, Masport vac pump, 2 toilet carrier on rear, good tires and brakes, cold A/C, 169,000 miles, ready to go to work. \$36,900. Located near Toledo, Ohio. **Call 419-865-4830. (P10)**



**2008 Ford F550**, 4X2, 190k miles, 700/400 aluminum tank, Masport pump, new engine at 115k, new PTO in 2019, vacuum pump & tank need work. Asking \$30,000. **717-278-6411, PA. (P09)**



**2015 Dodge 5500**, 4x2, 6.4L V8 Hemi gas pickup & delivery truck! Aluminum tank 450-gal waste/250-gal fresh. Masport HXL4V pump, dual-side service & DC10 wash down pump. 125,000 miles. \$37,000! **Contact Brix at 815-946-2813 for details! IL (P10)**



**2013 Ford F450**, auto, diesel engine, new 450-gallon vac tank (300 waste/150 water). Flat bed with lift gate. **Call JR @ 720-253-8014, CO. (PBM)**

2004 International 4300, Keith Huber 15-5 aluminum tank. (1,500 waste, 500 fresh), rebuilt engine. \$30,000. Contact Ashton for more info at 334-389-7775. AL (P09)

2005 Freightliner M2, 227,425 miles, 6-speed, excellent condition truck. 1,100-gallon waste/400 fresh water tank (new). \$42,000. Contact Ashton at 334-389-7775. AL (P09)



**For sale: 2008 Ford F550 4WD** portable toilet pumping truck. Goes out every day. Can haul 8 units. 130,000 miles. Runs good. \$20,000 or best offer. Please call for pictures and more information. Affordable Portables - **989-746-0009. MI (P09)**

2003 F350 7.3 diesel, stainless steel tank (400 waste/150 clean), aluminum flatbed, heavy duty springs in rear pressure cleaner, Conde pump. Contact Manny 305-970-9837. FL (P09)

New 1,600-gallon portable toilet service unit. (Stock# 13762) **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648). (PBM)**



**2014 Dodge 3500**, Hemi gas engine, auto, 70,000 miles, 2wd, new aluminum 450-gallon vac tank, 300 waste/250 water, Masport vac pump, Honda engine. **Call JR @ 720-253-8014, CO. (PBM)**

2000 International 4700 cab & chassis with a 500 waste/300 freshwater compartment with a Masport HXL4V vacuum pump. (Stock# 0767C) **www.VacuumSalesInc.com (888) VAC-UNIT (822-8648). (PBM)**

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**New custom hand-wash trailers** for sale. 11 and 12 station units, top quality, prompt turn around and delivery on all orders. 2 units available immediately. **Call Rick @ 330-716-2004. NC (P10)**

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**Black Cat Pumping is hiring,**  
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GapVax, Inc., a nationally recognized manufacturing business, is seeking a talented, highly motivated individual to fill a full-time Sales Position in the Midwest (Iowa based preferred) region. GapVax is the leading manufacturer of industrial and municipal vacuum units and hydro-excavation units in the United States. We provide the most reliable, comprehensive, and efficient mobile vacuum units in the industrial and municipal markets. Specifications of the position are listed on our website, [www.gapvax.com](http://www.gapvax.com), click on the Now Hiring link in the left hand column. Send resumes to or [betty@gapvax.com](mailto:betty@gapvax.com) or 575 Central Avenue, Johnstown, PA 15902. (PBM)

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

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

## ROLL-OFF TRAILERS

2001 ESP Roll-off trailer: Two (2) container roll-off trailer good brakes, tires, frame. etc. KLM Companies 617-909-9044 (PBM)

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Very good (used) professionally made concrete septic tank forms, boom trucks & riser forms. For equipment list, prices & pictures email [tankco@charter.net](mailto:tankco@charter.net) or call 931-526-2964. TN (P09)

## SEPTIC TRUCKS



**2014 Peterbilt 337**, new 2,500-gallon steel tank, automatic, 199,000 miles, new pump, new tires and aluminum rims all around. \$65,000. **Call Alan 786-908-5436. (P09)**



**2007 International 4400**, DT570 310HP, Allison 6-speed trans, 202,000 miles, 3,600-gallon aluminum tank, Masport H15WX liquid cooled pump, 200' of hose included. \$42,000. **Mike 530-409-0765. CA. (P09)**

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**2001 International 4900**, DT530, 275HP, 10-speed, 211,000 miles, Masport HXL75 pump, 2,500-gallon aluminum tank that is cracked and needs to be repaired or replaced. \$11,500. **Mike 530-409-0765. CA. (P09)**



**2012 Mack CXU613**, automatic, MP8 engine 249,000 miles, new 4,000-gallon steel tank, new Masport Hydra Plug & Play, new tires and aluminum rims all around. \$80,000. **Call Alan 786-908-5436. (P09)**



**2014 International 4400**, DT-466, Allison automatic, 139k miles, New 2,500-gallon tank, new Jurup PN84 Razor-Pak vacuum pump. **\$58,000. 305-691-8407. (P09)**



**2020 Pete 33000** GVW 2500 Best Enterprises stainless. NVE 607. Heated collars. 6" sump dump. 2 @ 4" inlets. PX9. 6-speed manual. 5,200 miles. Too small for current usage. **\$90,000. 401-300-1269. RI (P09)**

2009 International 8600 vacuum truck, less than 255,000 miles, in ready to work condition with a tow package installed. 3,400-gallon tank, new paint. \$55,000. Call Stephen at 404-394-0747 or spounds@cleandisposallic.com. GA (P09)

2006 US Tank 4,000 U.S. gallon C/S vacuum Tank only. (Stock #4000V). **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648) (PBM)**



**2014 Freightliner M2**. Single axle. Allison automatic transmission. Under CDL. 169,000 miles on Cummins engine. Air ride. New 2,000-gallon aluminum tank. New Masport Viper pump. New PTO. Fresh DOT inspection. Fresh service on truck. 72 point inspection. Shipping and financing available. Located in central Arkansas. Call for pricing. **Logan 832-928-0985. Caleb 281-914-1192. (P09)**



**2007 Pete 335**, Cummins engine, 10-speed, 340k miles. Transway 3,200/400 Hoist tank, 1200 pump 900 CFM, heated valves, new drive tires, original owners - was bought new. It's rusty, but trusty. \$30,000 OBO. **Contact Rick 815-933-7600. Kankakee, Illinois. (P10)**



**1996 Ford L9000**, 3176 Cat, 10-speed, 220,000 miles. 3,500-gallon Cusco tank with hoist and full opening rear door. All hydraulic with NVE 866 vacuum pump. Jetter with 80-gallon water tank. \$35,000. **423-593-2169. TN (P09)**



**1993 GMC Topkick Tanker** for sale. 280,135 miles. Truck runs fine and is in good condition for the age. \$20,000 OBO. **Contact Cory cjursik@toms-sewer.net or 330-807-1490. (P09)**

1998 International septic truck, 2,100-gal, runs well, good tires, needs a little body work to pass Mass Inspection. \$15,000. Call Dan 413-824-9666 for more info and pictures. MA (P09)

Pre-owned Keith Huber Dominator, 4,000 U.S. gallon, two compartment, dump type unit, with a Becker 440 vacuum pump package. Mounted on a 1999 Sterling cab & chassis. **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648). (PBM)**

New 4,000 U.S. gallon, aluminum, vacuum-pressure tank mounted on a 2021 Peterbilt 348 cab & chassis with NVE Challenger 887 fan cooled vacuum pump. (Stock #13899). **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648). (PBM)**

1995 Mack CH612 cab & chassis with a Presvac 2,300 U.S. gallon, C/S, vacuum tank and a Wittig RFL100 vacuum pump (coming in August). (Stock # 6224V). **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648) (PBM)**

2021 Mack Granite 64FR tri-axle cab & chassis with a 5,000 U.S. gallon, C/S, vacuum tank and an NVE 4307 blower (coming in August). (Stock #13891). **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648) (PBM)**

2005 International 7500, 570 eng. tandem, leaf spring suspension. Steel 3,500-gallon pumper, Masport HXL 400 water cooled, (2) 4" intake, 1- rear, 1- driverside front. 6" dump rear. Runs fine. Heated mirrors, A/C and heat work great. 40k rear 11 22.5, 20k front flotation tires. Little rust in hose trays, tank is great. Asking \$30k OBO. Call 240-375-7249, Pete. We're in Maryland. Hoses (4) 30' lengths and misc go w/ truck. (P09)



**2014 Freightliner M2** under CDL. Automatic transmission. Only 163,000 miles on a Cummins ISB. Brand new 2,000-gallon steel vacuum tank with a fresh water reserve built in. Brand new pump being installed. Brand new PTO. 72 point inspection. Shipping and Financing available. Central Arkansas. \$59,000. **Logan 832-928-0985. Caleb 281-914-1192. (P09)**



**1993 Chevy 3500HD**, 5-speed, 1,200-gallon tank, everything works like it should, runs and drives good. \$6,000 OBO. Hot Springs, AR. **501-276-8676. (P09)**



**Septic truck - 2002 Mack TriAxle.** Model: RD6885. Motor: EZ400 HP, 328,550 miles. Transmission - 8-speed RR. 4,000-gallon aluminum progress tank, 200-gallon fresh water tank. Gas power-washer 3,000 PSI. Pump - Wittig 150 water cooled. Great shape, garage kept, many new parts. Located in Laurel, Maryland. Please contact by email - **khatfield@hatfieldsequipt.com. \$42,000 OBO. (P09)**



**2018 Peterbilt**. 3,600-gallon Pik Rite tank. 350 Cummins. Auto. Air-ride. NVE liquid cooled pump. Ready to work. Kirkwood PA. **\$130,000. 717-529-0931. (P09)**



**2015 International 4300** with 260 HP Cummins diesel. Eaton Manual trans. 2,800-gal Progress tank with Moro PM-8 water cooled pump. 130,000 miles. Air-ride seat, cold A/C, 2 tool boxes, new Goodyear tires. 33,000 GVW. \$65,000. For more info **217-222-6439 or email circlesewer@yahoo.com. IL (P09)**



**2013 Freightliner M2**, under CDL. 157,000 miles on Cummins. New 2,100-gallon steel tank with Rhino Liner. New Jurup PN84 vacuum pump. New PTO. Hoses, jetter and tool box available at additional cost. 72 point mechanic inspection. Fresh DOT. Central Arkansas. Shipping and financing. \$59,000. **Logan 832-928-0985. Caleb 281-914-1192. (P09)**



**2014 Freightliner M2**, 106 Cummins Power, 400 HP, 10-speed, double chassis, 165,000 miles, brand new 4,000-gallons tank, brand new Masport Hydra Plug and Play, new tires all around, new aluminum rims. **\$79,000. Call Alan 786-908-5436. (P09)**



**1998 Kenworth** w/ Cummins engine, Eaton transmission, air-ride, 2,500-gallon steel tank, NVE 367 Challenger pump, great shape. **\$22,500. 720-253-8014. (PBM)**



**2015 Freightliner M2**, automatic, less than 129,000 miles, new 2,000-gallon steel tank, new Moro pump. **\$60,000. Call Alan 786-908-5436 (P09)**



**2018 International 4300**, less than 110,000 miles, new 2,500-gallon steel tank, new Moro pump. **\$72,500. Call Alan 786-908-5436. (P09) (P09)**

2006 International 4300 series, non-CDL, DT466, automatic, 414k miles, engine overhauled at 300k, 2012 1,850-gallon aluminum tank, 500 CFM NVE pump, jetter. \$35,000 OBO. 443-324-9970. MD (P09)

2002 International, model 2674, CAT C-12 533k miles, 3,600-gallon steel tank, new Masport pump, runs and used as shop truck. \$20,000 OBO. 443-324-9970. MD. (P09)

2008 Mack Granite, 3-axle septic tank truck. 3,350-gal tank. 350HP Eaton 8-speed lo-lo. 62,000 GVW, 18K front, 44K rear. Mack suspension. ONLY 93,118 ORIGINAL MILES. Masport pump, power windows, air-ride seat, A/C, cruise. Pintle hitch, air to rear. Tires are almost new. Located in Prescott, AZ. Retired, no longer needed. \$50,000. Call Rick 541-910-3458. (P09)

2012 Freightliner M2112 with new 5,000-gallon carbon steel Dynavac septic tank. Triaxle with 450 HP DD13 with Fuller 10-speed trans, air-ride suspension, Fruitland 500 vacuum pump, excellent condition. KLM Companies 617-909-9044. (PBM)

New 4,000 U.S. gallon, aluminum, vacuum-pressure tank mounted on a 2020 Peterbilt 348 cab & chassis with NVE Challenger 866 fan-cooled vacuum pump. (Stock# 13875) **www.vacuumsalesinc.com (888) VAC-UNIT (822-8648).** (PBM)



**2012 Freightliner M2**, under CDL, Allison automatic, Cummins ISB (285 HP), 240k miles, new 2,000-gallon tank, new Jurup PN-58 Razor Pak vacuum pump. **\$60,000. 305-691-8407. (P09)**

Vacant manufacturing facility, 51,000 square feet with high capacity well, with or without pretreatment sewage facility. 2000 Freightliner with 4,100-gallon aluminum tank. 1991 GMC with 2,300-gallon tank. 1979 Articulate John Deere tractor (50 series engine) and 3,300-gallon Balzer tank with injectors. Call 920-290-6452. (PBM)

1999 Sterling L9000 tri-axle cab & chassis with a 4,000 U.S. gallon Keith Huber Dominator, two compartment (500 water – 3,500 waste) C/S. Full-opening rear door, dump-type unit with a Becker 440 vacuum pump and jetting system. (Stock# 3408C) **www.VacuumSalesInc.com (888) VAC-UNIT (822-8648).** (PBM)

**2001 International 4700** cab & chassis with a Transway 2,400 U.S. gallon, carbon steel, dump-type vacuum tank with a Fruitland RDF500 vacuum pump. (Stock# 7295C) **www.VacuumSalesInc.com (888) VAC-UNIT (822-8648).** (PBM)



**2013 Freightliner Cascadia**, new 3,500-gallon vacuum tank, new Jurup R260 pump, new power takeoff, new motor : Detroit DD15, 450 HP. New transmission, 10-speed, 355 rear lockers, suspension, air cold A/C, 90% rubber on tires, disc brakes. 513,000 miles. \$60,000. Red and black, excellent find with all the new parts and accessories. **800-721-2774. (PBM)**



**2013 International 4300**, under CDL. DT466 diesel, auto., 130k miles. NEW 1,800-gallon steel tank with Masport pump. **Call JR @ 720-253-8014, CO. (PBM)**



**Textla Services Vacuum Truck Bodies** – Turnkey package mounted on your chassis includes: painted body, lighting, valves, PTO and pump. 3,600-gallon - \$25,000; 2,500-gallon - \$22,000; 1,500-gallon - \$18,500. Many custom options are available. Bodies out of paint: 2,500-gallon - \$13,500. Self-contained skids available. **Call 936-641-3938. Check us out on Facebook! (PBM)**

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## SLIDE-IN UNITS



**NEW aluminum slide-in tanks.** 2 available. 450-gallon (300/150), Honda motors, Masport pumps. **Call JR @ 720-253-8014 or Mike @ 303-478-4796, CO. (PBM)**

## TANKS

2017 Best stainless slide in vacuum tank. 400 waste/200 fresh. The tank and pump are in great working condition. I sold all of my units and no longer have a use for the tank. \$10,500. Please call 859-743-8821. KY (P09)

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Vacuum Tanks - New: 800- to 5,000-gallon tanks available. 3,600-gallon tanks \$14,000. 2,500-gallon tanks \$12,000. Delivery available. Contact Jerry: 800-721-2774; JEagleTanks@yahoo.com. (PBM)



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**Tanks in stock**, ready to ship out or let us install it for you. Restroom, septic, grease in stock with mounting kits. **Call 888-6VACTANK today! (PBM)**



**Used Steel Vacuum Tanks** - starting at \$8,900, 3,500-gallon, 4,200-gallon & 4,700-gallon. Used Masport HXL400 WV Plug-and-Play - \$2,900, Gasco Triplex 3364-AL - \$750. We ship anywhere. **Call 269-751-5167, MI; Truckservicesinc.com (PBM)**

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**(5) 2018 Imperial 6,800-gallon**, aluminum transport trailers, wrapped in stainless steel, very little use, virgin tires, original brakes are 80%, 12" rear valve, 4" rear valve absolutely beautiful trailers! \$55,000. **Contact Dave 608-778-0234. WI (P10)**

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Crust Busters - Portable, lightweight machine guaranteed to mix up septic tanks and grease traps! Save time and money! [www.crustbusters.com](http://www.crustbusters.com), 1-888-878-2296. (PBM)

## TOYS

Septic pumper and vacuum die-cast toy trucks in your choice of colors and logos. Several cabs available. Call 877-450-2100, write to Granite State Collectibles, PO Box 440, New Ipswich, NH 03071; or [www.granitestatecollectibles.com](http://www.granitestatecollectibles.com). (PBM)

## TRAILERS-VACUUM/TANKER



**New Demo Unit Sale.** 750 waste/350 fresh vac trailer, Juroop PN84 engine drive vacuum pump, AMT wash-down pump, removable toilet rack carrier, toolbox, LED lighting. **\$21,000. Call 903-736-1407. (P09)**



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



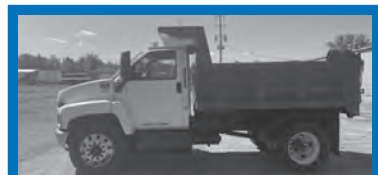
**2014 Hurricane model 828.** Powered by John Deere PowerTech plus 9.0L Tier 3, no after treatment. Roots DVJ Whispair blower, low hours-2,000. \$140,000. Please call for more details. **Jason Thornell 734-699-4949 or [eisjason-thornell@live.com](mailto:eisjason-thornell@live.com). MI (P09)**

## TRUCKS (DUMP, SEPTIC, MISC.)

2006 Peterbilt 335, fresh inframe 315 Cummins/8LL transmission, 40K rears on air, 18K front. 3,600-gallon steel vac tank/R260 Juroop pump. 70 % Rubber. \$52,000. Call 440-466-4406. OH (P09)



**2017 Kenworth W900L** 550 Cummins, 18-speed, 20k front, 20k steerable lift, 46k full locking rears, 187k miles, Morocco 4,700-gal tank, Masport pump, new steer tires, almost new drive tires, inside like new, all factory - not deleted. \$125,000. OBO. **Contact Steve at 717-250-1837. PA (P09)**



**2004 GMC 7500 dump truck.** 24500 GVWR. Great condition, 163,000 miles. Asking \$23,000. Please call or email with questions **330-807-1490, [cjursik@tomssewer.net](mailto:cjursik@tomssewer.net). OH (P09)**

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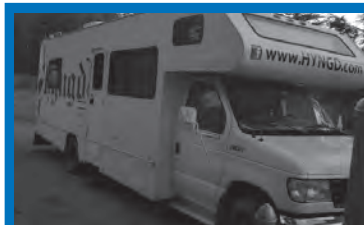


**2013 International**, 52,000 GVW, 270 HP, only 77,000 miles, equipped with NEW hydraulic set bed, 12,000 lb capacity. **\$64,000. Call Dewayne 256-338-4985. (PBM)**

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

2009 Guzzler Ace High Dump with Sterling tri-axle chassis, Hibon 27" blower and high volume sludge pump. In excellent condition, California truck, tank perfect shape, low miles & hours. KLM Companies 617-909-9044. (PBM)

### TRUCKS - MISC



**1993 Mobile Truck Winne 350C.** Asking price \$6,500. Yiddy Weiss **347-546-4551, yidyweiss@gmail.com. NY (P09)**

VACALL ALLVAC AVR8, 18-yard debris body mounted on a 2014 Freightliner 114SD cab and chassis. (Stock #033R).

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

2015 Freightliner 114SD cab & chassis with a VACALL AVR8-18 industrial vacuum loader. (Available for rent or purchase). (Stock # 039R). **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648). (PBM)**

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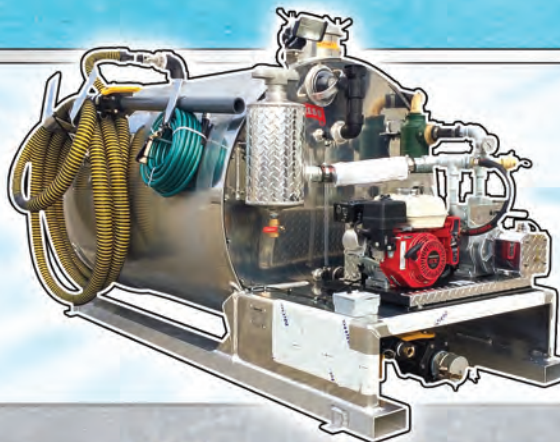
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