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

Jim Kneiszel
Editor

Fill It Up, but Don't Dump It Out!

Pumpers continue to grapple with the challenge of more calls for periodic pumping and dwindling affordable disposal sites

By Jim Kneiszel

Sepptic pumpers are sometimes faced with a Catch-22 situation. The county or state wants you to empty customers' septic tanks periodically — in many states and regions this is mandated. But once you get the sludge into the tank, these same governments can become uninterested in how you get rid of it. Pick up the load, sure. That's a good idea. But dumping it, well that's another matter.

A pumper's first thought might be to leave the load at an area municipal plant where operators are used to treating wastewater and releasing clean water back into the environment. Well, more and more often, the answer is "No, we're concerned about our system's treatment capacity and all of this septic waste might cause problems."

So then the pumper might think, "Well, OK, I can always land-apply septage if the treatment plant won't take it." Wrong. Maybe it's winter and the state won't allow spreading on frozen ground. Or neighbors will object to land application, so you can't do that either.

So the pumper idles in his truck with a tank full of waste that nobody wants to handle locally. The next option is driving it over a county or two where you might find a willing plant to process the waste.

Luckily, disposal isn't always an issue. I talk to pumpers every day and the topic of disposal invariably comes up. If the pumper has a receptive municipal plant and the per-gallon fee isn't out of control, it's no problem. Or if the pumper is in a rural area in a state that doesn't object to land application, that can be an economic way to go.

But you have to feel for the small-business pumpers who find themselves in an area where no reasonable disposal options exist. This challenge is hurting their livelihood and the pocketbooks of their customers who rely on a septic system.

LAND APPLICATION LIMITS

Consider what pumpers are going through in Sundance, Wyoming, these days. The state Department of Environmental Quality rules for septage land application have become stricter in recent years. And at the same time, the city of Sundance doesn't want to allow septage to be added to its city wastewater lagoons. So it's becoming pretty difficult for pumpers

to thread the needle to find a solution.

According to a report in the *Sundance Times*, the 2018 DEQ rules were changed to state that land-spreading can only be done on property where septic tanks are pumped. Additionally, dumping must happen at least 1,000 feet from adjacent property owners and 300 feet from a private road, body of water or stream. This restricts pumpers from devising a plan to spread waste on their own property or contracted lands.

➤ You have to feel for the small-business pumpers who find themselves in an area where no reasonable disposal options exist. This challenge is hurting their livelihood and the pocketbooks of their customers who rely on a septic system.

But at the same time, the city does not want to agree to requests from area pumpers to dump at municipal lagoons that take waste from residents using the sewer system. There is enough capacity to take the waste, but a concern that the concentrated septic sludge will throw off the chemistry in the lagoons and lead to expensive dredging operations.

The public works director, Mac Erickson, recommends local officials refuse to take on the septic waste from outside the city limits.

"If we start taking on a thousand gallons at a time of sludge, it's going to be quite the burden on our lagoon [with] the possibility of some contaminants coming in there that we don't want and damaging or killing the bugs in the lagoon," he said during a meeting on the issue. "We certainly don't want to be the bad guys, but I think it's in the city's best interests to protect what we have."

You know where this all leaves local pumpers. In limbo.

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NEW SEPTAGE PLANT

Some communities are seeking solutions to better handle septic waste. Montana's Flathead County just agreed to purchase nearly 37 acres of land to develop a septage treatment operation, according to a report in the *Daily Interlake* in Kalispell, Montana. The county will spend \$1.5 million for the land and about \$15 million in American Rescue Plan Act and state Department of Natural Resources and Conservation money on the project.

Sludge from an estimated 30,000 septic systems serving a large rural area will be trucked to the facility and treated, with effluent flowing into the adjacent Lakeside Water and Sewer District treatment plant and dried cake converted into compost at the site.

As you might expect, there were objections to the plan from neighbors of the septage treatment site. Nearby resident Jennifer Tipton argued, "This will concentrate the entire county's waste around my family and neighbors and near Flathead Lake." Another neighbor said the plan would have a negative impact on his property. "It does not take a genius to figure out no homeowner wants the county to build a septage biowaste composting facility next to their property," said Jason Mahlen.

But local officials were adamant that a solution is necessary to provide a way to treat waste being generated by rural taxpayers and caused, in part, by increasing development in the popular region. The county reported that 40,000 gallons of septage must be pumped daily and that waste has to go somewhere.

"We have great concerns about how those septic tanks will be pumped going forward," said Cynthia Murray, general manager of the Evergreen Water

and Sewer District. "This facility is so important for the future. What the county is doing is forward-thinking and responsible for the citizens of the county."

SOLUTIONS NEEDED

I agree with Murray that this plan is forward-thinking on the part of the county. Septage treatment is not some bright and shiny government project that generates positive attention. And as it is shown in this case, such a project can turn out to be a political liability for local officials who support it.

But if there is anything we should be spending taxpayer money on right now, it's these important infrastructure projects that keep our communities moving. Across the country, roads, bridges, airports, power grid and — most certainly — our wastewater systems are aging and in need of repair. Too often necessary upgrades to infrastructure have been put off in favor of other types of spending, and we need to make up for it now.

And I would like to call out any infrastructure attention given to decentralized wastewater needs and not just concentrated on maintaining and expanding the big pipe of municipal sewer. The National Onsite Wastewater Recycling Association has fought for years to get our onsite infrastructure a bigger piece of the federal funding pie, and more success has been reported recently.

It's true that more than one-quarter of U.S. residents handle their waste through septic systems. So as an industry we shouldn't be shy about demanding help for our customers who often struggle financially to maintain proper functioning treatment of their household waste stream. We are the best advocates for effective management of rural waste and promoting a cleaner environment for the benefit of all. **P**



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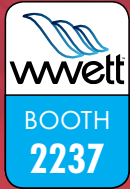
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► **Pumper PROFILE**

♥ Brian and Tamara Russell pose with Big Blue, the truck her father, Henry Howland Jr., ordered 16 years ago. As a surprise for her father, Tamara entered the truck for *Pumper's* Classy Truck, and it appeared in the magazine in 2009 shortly before he passed away.



ROAD
WORTHY

A-1 Septic's "Big Blue," their single Classy Truck rig has supported the family business for 16 years and counting

By Kyle Rogers

Guess I'm still on my two weeks.

That's the joke Brian Russell continues to make occasionally, more than two decades after taking over the fieldwork for A-1 Septic Tank Cleaning from his father-in-law, Henry Howland Jr. What was initially proposed as a two-week gig while Howland recovered from a back injury has morphed into Brian and wife Tamara running the longtime Topeka, Kansas, septic company, now in its 76th year.

"I just wanted to see it go on more than anything," Tamara says of her journey into the septic trade.

With two older siblings uninterested in getting into the family business, Tamara decided to take on the role. She got further involved in 2002 when her father stepped back from his job duties, and since 2009, when he died, she and Brian have led the company full time.

Their plan is to keep up what has made the company successful for decades — including their 16-year-old vacuum truck — with hopes that potentially a fourth generation, their son Lukas, could continue A-1 Septic Tank Cleaning's legacy down the line.

THE FAMILY TRADE

A-1 Septic Tank Cleaning started with Tamara's grandfather, Henry Howland Sr., in 1947. He ran the company full time until 1973, when Tamara's father took over. From there, operations just naturally transitioned to yet another generation of the family.

"I've done little things here and there for as long as I can remember, whether answering the phone for my dad or helping with the books," Tamara says. "Then in 2002, my dad said he was going to step back and let me do more, but he continued to answer the phone until he passed away."

All these years, A-1 Septic has kept it simple as a one-truck company. For a time, Tamara says her father considered adding a second truck to bring her brother into the company, but that didn't pan out. A-1 Septic stayed a one-truck operation.

"I also think my dad was having thoughts about the expense of a second truck," Tamara says. "Brian and I haven't really considered adding a second truck either. We're happy maintaining what we've already built."

A-1 Septic has stayed around its home base of Topeka, typically traveling no more than about 30 miles for a job. Perhaps the most significant change over the years has been the amount and makeup of A-1 Septic's workload

“ THE REASON HE DID THE FIVE-YEAR CYCLE IS HE THOUGHT IT WAS BETTER TO GET RID OF A TRUCK BEFORE IT GOT TOO MANY MILES ON IT AND HE WANTED TO BE ABLE TO STILL GET SOMETHING OUT OF IT. I THINK THAT WAS HIS THOUGHT. ”

TAMARA RUSSELL



A-1 Septic Tank Cleaning

Topeka Kansas

OWNERS: Brian and Tamara Russell

FOUNDED: 1947

EMPLOYEES: 2

SERVICE AREA: 30-mile radius around Topeka

SERVICES: Septic and grease trap service

WEBSITE: www.a1septic-tank-cleaning.com



◀ The lone rig in the A-1 fleet, nicknamed Big Blue, has a distinctive custom "It's Time" indicator float gauge on the side of the aluminum tank.

► Pumper PROFILE



▲ Brian Russell connects the suction hose to the tank on his 2008 Peterbilt truck from Transway Systems. The truck generates vacuum using a Masport pump.

as the Topeka community has grown. More houses have been built in areas with no sewer service. More restaurants now exist and local dog food plants Hill's Pet Nutrition and J.M. Smucker's have grown.

"We do more commercial work now than my dad did," Tamara says. "Topeka has grown. More restaurants have popped up over the years, and we do a lot of grease trap cleaning. That's one thing. And two, we've done a lot of work for the dog food plants. My dad did Hill's Pet Nutrition back in the day, but they hadn't grown as large as they have now in the area. When we've had a contract with them, Brian has had to do it almost every day."

A RELIABLE RIG

Among the many constants for A-1 Septic is its service truck nicknamed Big Blue, a 2008 Peterbilt 340 from Transway Systems. Back in its youth in 2009 it was even one of Pumper's featured Classy Trucks.

"That was the last truck my dad kind of had a say on as far as how everything was set up and how it was ordered," Tamara says. She and Brian flew to Buffalo, New York, to pick it up. She says she remembers calling her dad from the road while driving it back to Kansas.

"I called him from somewhere around Iowa and said, 'This thing is huge. I'm going to call it Big Blue.' So Big Blue has stuck all these years," Tamara says. "My dad always wanted one of his trucks to be featured in Classy Trucks, but he had never submitted any. So I told Brian when we were driving it back that I was going to submit it for Classy Trucks after we got it lettered. We surprised my dad. We didn't tell him that we were going to do it. So when we got selected, he was amazed. He passed away that year it was featured, but he got to see the truck in there. That was the important part."

“ WE DO MORE COMMERCIAL WORK NOW THAN MY DAD DID. TOPEKA HAS GROWN. MORE RESTAURANTS HAVE POPPED UP OVER THE YEARS, AND WE DO A LOT OF GREASE TRAP CLEANING. ”

TAMARA RUSSELL

Big Blue carries a 3,600-gallon Progress aluminum tank, with vacuum created by a Masport HXL 400 pump. The truck has a PACCAR PX-8 power plant tied to a 10-speed Fuller transmission (Eaton Vehicle Group) transmission. Work features include a three-stage telescopic hoist, matching aluminum toolboxes, and a custom "It's Time" indicator float gauge. Exterior accents include aluminum hose trays, diamond-plate aluminum hose guard on the tank and aluminum wheels.

Keeping the truck this long wasn't necessarily the original plan. Tamara's dad used to maintain a five-year cycle for changing out trucks.

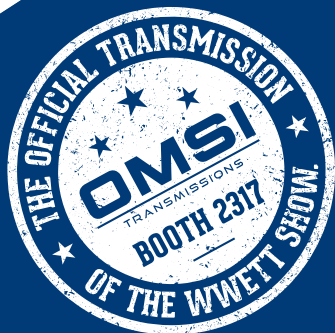
"The reason he did the five-year cycle is he thought it was better to get rid of a truck before it got too many miles on it and he wanted to be able to still get something out of it. I think that was his thought," Tamara says. "We weren't really planning on keeping the truck this long. It just kind of happened that way. Originally we thought maybe 10 years. But we had

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► Brian Russell pumps a residential septic tank, the bread-and-butter work at A-1 Septic for three generations.

so many issues with the truck in the beginning before we got it running right, I think we just developed an attitude of, 'Nope, we'll just keep this one going.'"

In 2008, Big Blue was one of the earliest models engineered for low emissions, so some tweaking was unfortunately necessary before it became the reliable workhorse it is today after traveling 220,000 miles.

"There were problems with the diesel particulate filter and the turbo," Tamara says. "It was all under warranty, but it took about four years to get through all of that. Since then, it's been pretty good. There have been little things here and there, but Brian does his best to take care of it. It gets babied."

A-1 Septic has a shop to store Big Blue. As long as the truck has already been in service, Tamara says the hope is that they can get another 10 years out of it.

"However long it will last," she says. "Brian keeps saying he's going to retire in maybe 10 years, so he's hoping it lasts that long."

GREASE SERVICE

A-1 Septic has benefited from some local regulations. For about a decade, restaurants have been required to clean grease traps quarterly. That coupled with Topeka's growth and the increase in the number of restaurants has meant significantly more grease trap work than the company used to handle.

"When that regulation started, that's when grease trap work really picked up for us. It makes up maybe 40% of our work now," Tamara says. "My

dad was doing grease trap work, but he just didn't have as much to do back then. It was maybe 10% of his workload."

A-1 Septic maintains simple verbal contracts with its grease trap customers.

"If they want us to do it, we just get them on the schedule," Tamara says. "Some are three months, some are two months. It just depends on the particular situation; how bad their grease trap gets and what the city says they need done."

Another helpful regulation is the requirement for riser installation at the time of a home sale, which has been in place for about 20 years. It keeps Brian focused on profitable pumping rather than searching for septic tanks and excavating to access them, Tamara says.

"Brian doesn't do any locating or digging to get to a tank," she says. "If there's one that needs it, we have excavating companies we refer for that because one person could be spending hours locating and digging when they could be pumping instead. We don't have to call the excavating company very often. Usually that's one of the questions we ask. Do you have a riser? If they say no we see if they can have it uncovered before we get there. A lot of times homeowners will do it themselves."

GENERATION NEXT?

Since 2009, A-1 Septic's staff has been solely Brian and Tamara, outside of one year when their son Lukas, 31, joined the team.

"We did that to see if it was something he might consider later on down the road," Tamara says. "He's doing his own thing right now, so we'll see. I'm sure if something happened and we had to be away and one of our regular customers called, he'd get in the truck and go. We keep his hauler's license current."

In the meantime, Brian and Tamara, both 53, are looking at another decade of running Big Blue and providing Topeka's community with quality septic service for almost eight decades.

"We're just saving money and investing," Tamara says. "We'll keep operating how we always have."

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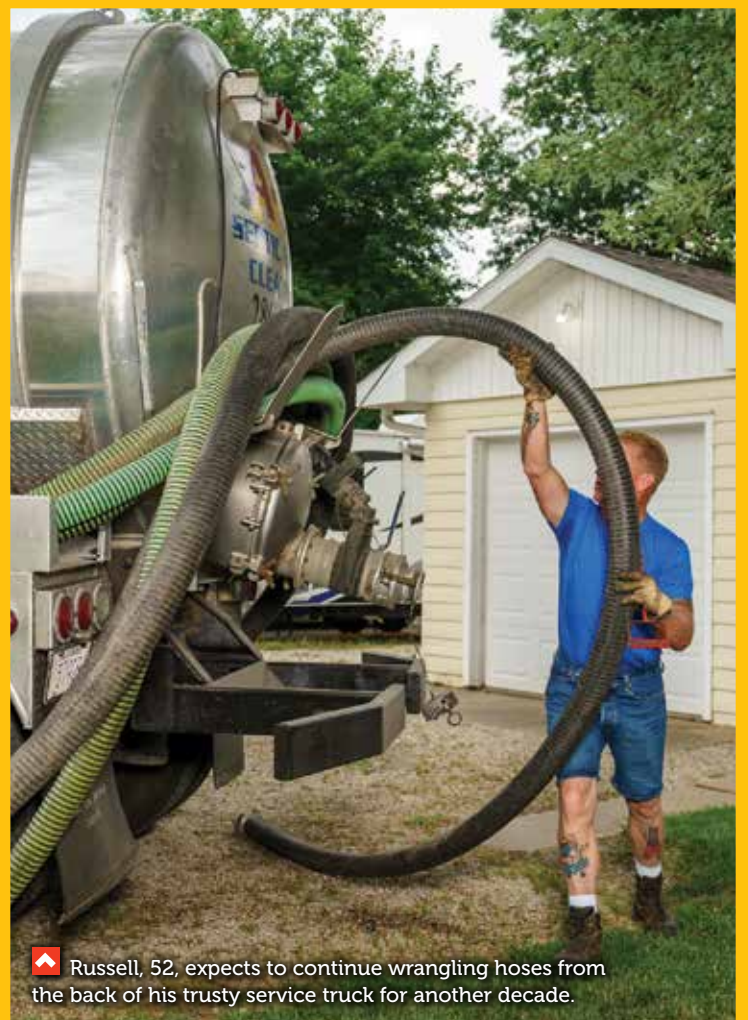
A helping hand

Septic pumping competition isn't cutthroat in Topeka, Kansas. For as long as A-1 Septic Tank Cleaning has been in business, the company has maintained friendly relationships with other area pumpers.

"Everybody here is friendly," co-owner Tamara Russell says. "There are really only three septic pumping companies locally. Everyone is small. Just one or two truck operations. Usually if something happens, someone is able to help."

She recalls one instance where the truck of one of those competitors/friends broke down while transporting a full load. Her husband Brian met up with the stranded pumper to transfer the load to the A-1 Septic truck for disposal. There have also been a couple cases of the A-1 Septic truck being temporarily down, and Tamara says they had to call on another company to handle one of their regular holding tank jobs.

"These friendly relationships with competitors have happened naturally," Tamara says. "There is plenty of work to go around so we just help each other out." **P**



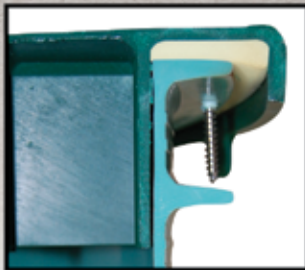
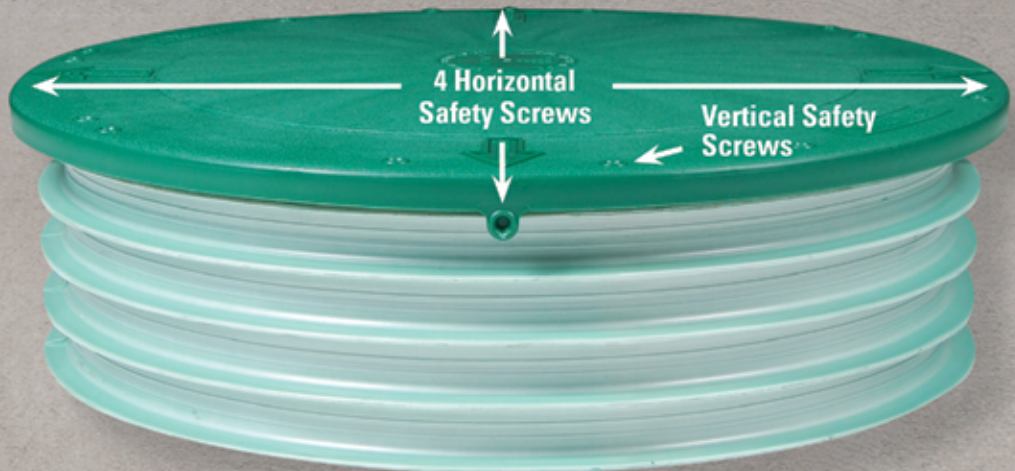
▲ Russell, 52, expects to continue wrangling hoses from the back of his trusty service truck for another decade.

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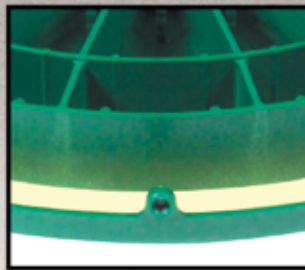
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Sara Heger, Ph.D.
Contributor

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

Getting to the Root of Pipe or Tank Infiltration

Trees offer many benefits to your customer's profits, as long as their underground growth doesn't interfere with proper septic system function

By Sara Heger, Ph.D. Photos courtesy of Sara Heger

Research has shown trees can provide up to \$7 in annual benefits for every \$1 invested in caring for them. Benefits include increased property values, pollution control and energy savings, and they are beautiful! Unfortunately, tree roots can cause problems in septic systems.

Roots are estimated to make up 20 to 40% of the total biomass of trees. Trees have two types of root sizes — coarse and fine. Coarse roots (more than 1/12 inches in diameter) anchor the tree in the soil and transport water from deeper soil horizons. Fine roots (up to 1/12 inches in diameter) uptake water and nutrients.

The typical rule of thumb has been to keep trees 20 feet or more away from the septic system, but increasing this distance is undoubtedly a good idea for new tree plantings. Trees known for seeking water, such as poplar, maple, willow and elm, should be planted at least 50 feet away from the septic system. Planting smaller ornamental trees nearby is advisable since their roots will be less extensive.

▶ If/when the top of the barrier deteriorates or is damaged from traffic/activity, the roots will travel over the top of the barrier and continue to cause problems.

Suppose you live in a part of the U.S. that has experienced drought conditions. In that case, the recommended separation distance between trees and the septic system may not effectively limit the problem as expected. Trees may enhance fine root growth during droughts and form deeper coarse roots to increase water uptake. Trees that have adapted to dry climates tend to have higher root-to-plant ratios, and research shows this happens during severe droughts in non-arid environments.

WHERE THEY TRAVEL

The first location where tree roots commonly cause problems is the building sewer to the first tank. The critical issue here is determining how the tree root

is getting into the pipe and repairing it. A pipe inspection camera can aid in diagnosing this issue. It may be because the pipe is of inferior quality, cracked or otherwise damaged. Be aware that tree roots may crush or lift the pipes, creating a location for debris to catch and freezing to occur.

Proper repair includes cutting out the root entirely and relaying the pipe at the appropriate grade. If the pipe is not up to current standards, the entire pipe from the source to the tank should be replaced. With this repair, you may damage the tree to the point that the tree will die. With high-value trees, check with an arborist if you need clarification.

With tree roots in septic and pump tanks or advanced pretreatment units, the question is the same as solid pipe — how are they getting in? A service provider must remove the roots, and the source for entry must be blocked permanently. Left unchecked, the roots can cause backup into homes due to their aggressive growth.

Tree roots can make their way into and around conventional systems. Growing around the system is not a problem, but the root must be physically removed if it gets into the perforated pipe. The quickest way to deal with this issue is physical means of removal (jets, augers, etc.).

Unless the tree is cut down or the system is replaced in another location, physical removal must be immediately followed with applications of a chemical root killer or installation of a mechanical and/or chemical barrier. Otherwise, the plant regrows those roots vigorously. If a chemical is used, it will be for the system's life; although the frequency of re-treatment may diminish, the need never goes away.

BUILDING BARRIERS

A mechanical barrier (sometimes called a tree root deflector) is typically



▶ Roots intruded on this AdvanTex treatment unit and will cause treatment problems if not removed and future root intrusion prevented.



Roots have invaded this tank and are poised to create problems for the septic system.

made of plastic or metal installed vertically into the soil. It forms a barrier that redirects or restricts the growth of tree roots, preventing them from spreading into unwanted areas. These barriers are designed to direct roots down and away from the septic system component.

Some walls are impregnated with cupric acid or trifluralin to inhibit the growth of all tree roots they encounter. Care should be taken as these chemicals are toxic to humans. Special attention during installation is needed at every joint of either physical or chemical barriers, as roots can easily penetrate and defeat the wall.

During installation, exceptional care must be paid to ensure the extension of the barrier below the maximum depth the roots will penetrate. If you need more clarification on this depth, it is another time to discuss the issue with a local arborist. It would be best to be careful to install them only a short distance from the tree, or it may need more root growth to sustain its height and water/nutrient needs.

Also, depending on your location, the depth of UV penetration may be several inches, so the barrier product must be very resistant to this. If/when the top of the barrier deteriorates or is damaged from traffic/activity, the roots will travel over the top of the barrier and continue to cause problems.

Trees add aesthetic beauty to a property, increase value, save on air conditioning and assist in preventing runoff and erosion. They are valuable resources; we must consider how they can impact septic systems. **P**



This huge clod of tree roots was pulled out of a malfunctioning septic system.

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Jeff Haden
Contributor

Jeff Haden is a contributing editor for Inc.com and a LinkedIn Influencer.

So You Want to Expand Your Service Menu? Proceed Carefully!

Before you buy equipment and add staff to pursue a new wastewater specialty, evaluate your idea using the three P's

By Jeff Haden

I built a deck out on the dune. It turned out well. Not perfect — when you do the work, you always see the minor imperfections no one else notices — but overall, I was satisfied.

“That looks great,” a neighbor said. “You could start a business building decks.” Hmm, I thought. I could. After all:

- Home improvement spending has spiked because of higher home prices; homeowners who might have moved up have chosen to improve what they own instead.
- Finding people to do that work is tough; 90% of homebuilders report a shortage of carpenters, according to a National Association of Home Builders survey.
- There’s definitely a market; a deck is a relatively inexpensive way to meet the stereotypical “space for entertaining” desire of every homeowner on an HGTV show.
- No capital is required; I already own all the tools I need.

So, yes. I could start a deck-building business — but that doesn’t mean I should.

When asked how he validates business ideas, here’s what HubSpot co-founder Dharmesh Shah had to say:

The most dangerous ideas are not the bad ideas. Those you can discard easily. The dangerous ideas are the ones that are good — but not great. Yes, it could work, and yes, I could do it — but that doesn’t mean I should.

PROFIT POTENTIAL

It’s not about the failure rate — I’m actually OK with that. It’s that good ideas eat up a lot of time/calories, leaving little time for the great ideas.

Why would starting a deck-building business be such a dangerous idea? At face value, it wouldn’t.

- Product/market fit? Check.
- Skills/market fit? Check. While I’m no genius, I would be smart enough to walk away from projects beyond my skill level.
- Reasonable profit potential? Check. Especially now; the supply and demand curves would definitely be my friend.

But that still doesn’t mean I should. I enjoyed building my deck. But I don’t want to build your deck. And I definitely don’t want to spend all day, every day building decks.

That’s the other half of Shah’s could/should equation. Here’s his simple framework for judging ideas:

➤ **The beauty of starting or expanding a business is that you are free to choose what kind of business. Not the business you could start, but the business you should start.**

Potential: If it worked, how big could it be?

Probability: What are the chances it will work?

Proximity: How close is this to things I care about, know about, or am passionate about?

How you weigh each category depends on your situation. Early on, Shah focused heavily on probability for success; risk is not your friend when your primary goal is putting food on the table.

EXAMINE POTENTIAL RETURNS

“Today,” Shah says, with a \$17 billion company under his belt, “I solve mostly for numbers 1 and 3: What has great potential that I’m passionate about? (Even if I fail, I’ll have no regrets, because I cared enough about it).”

And that’s where the deck-building business falls apart for me. Probability of success is high. Growth potential? Sure — but scaling would require hiring and managing and infrastructure, and all the stuff I wanted to stop doing when I left a corporate job.

That only adds to the proximity problem; not only do I not want to manage dozens of people, I don’t really want to build decks every day. I like building decks for me and mine. I wouldn’t like building decks for other people.



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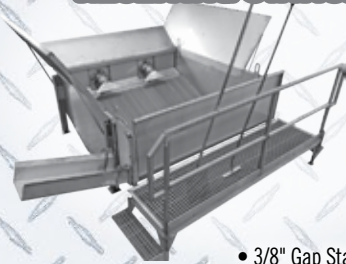
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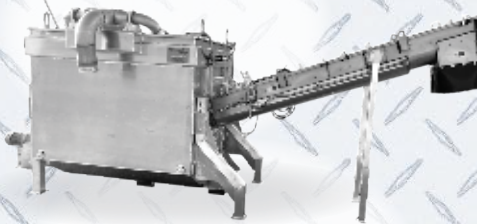
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- Uses Gravity to Separate Trash

NEW TRASH MASTER 600 RECEIVING STATION



Simplest Auto Screen In The Industry

- Uses Gravity to Separate Trash From Flow Screen
- 6" Power Offload From Truck 800 GPM
- 3/8" Gap Stainless Steel Bars
- Dewateres Trash - VFD 5-30 RPM
- Heavy Duty 11 1/2" Shaftless Screw Moves Trash to Receptacle

Patent Pending

MAXI SCREEN 400 PORTABLE SEPTIC RECEIVING STATIONS

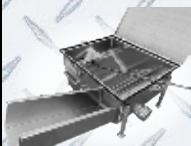


Aluminum & Stainless Construction

- 3/8" Gap Stainless Steel Bars
- Screens That Really Work
- No Moving Parts
- Gravity Offload @ 500 GPM
- NEW 4' Trash Extension Puts Trash Directly Into Dumpster

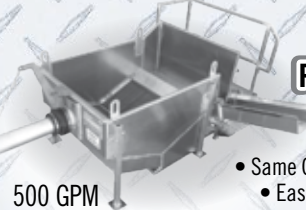
Patented Dual Screen Design

NEW MICRO SCREEN 400 PORTABLE RECEIVING STATION



- Place Over Frac Tank or In Ground Storage Tank
- Bolts Securely to Manhole Ring
- 3/8" Gap Bars, 8 sq ft Screen Area
- Sealed Lockable Hinged Cover • Fast 4" Offload
- Lightweight • Portable • Small Footprint

OUR SYSTEMS MEET ECOLOGY 503s



MINI SCREEN 400 PORTABLE RECEIVING STATION

500 GPM
Patented Dual Screen Design

- Same Great Design, Ships Truck Freight
- Easily Fits in Pickup for Transport
- Small Footprint, Big Results



TRIPOD LID & PUMP LIFTER

- Saves Back Injuries
- Auto Brake Winch
- Only Weighs 28 lbs
- Heavy-duty Aluminum Construction
- Available In 4-5-6 ft Models
- Lifts Stubborn Tapered Lids
- Folds to Fit on Hose Deck
- Max Load 600 lbs

GRIT ELIMINATOR



- Removes Grit From Flow Stream
- Keeps Onsite Storage Grit Free
- Available in 18, 32, 64, 96 cu ft Grit Capacity



SHAFT DRIVE PUMPS & AGITATORS

- Move Septic And Grease Interceptor Waste With Ease From Underground Storage Tanks
- Great For Transferring To Land Application Site
- Mix While Dewatering
- Handles Sand Grit and Slurry Type Materials
- Pit Depths Of 3-12 ft, #3333 Up To 500 GPM, #4444 Up To 1580 GPM

PAIZ DISTRIBUTOR



TRUCK TOW BEHIND PORTASCREEN SPREADER

- Portable Event Screening
- Doubles as Screener Spreader & Mobile Septic Receiving Station
- Clean Up Your Land Application Site
- Never Hand Pick Trash Again

And I'm fortunate to have other work I enjoy more.

Trying to decide whether starting a particular business or adding a new service to your existing business makes sense for you? First, consider your situation. If you're just starting out, the probability of generating enough money to live on could be the most important factor; what you need to do matters more than what you like to do. What you could and should do is put food on the table.

If probability is less of a factor, then consider potential.

And how easily you can scale to meet that potential. Unlike some ventures, a deck-building business isn't easily scalable. No matter how big the potential market, you need to be able to service that market — and want to build and run the type of business required to service that market.

DO WHAT YOU LOVE

Then consider whether you care about the business you will create. I could run a deck-building business. I could run a successful deck-building business.

But I don't want to.

The best way to define professional success? Whether you get to do work you enjoy. Work that leaves you feeling fulfilled, and satisfied, and happy. Work that allows you to control, as best possible, your own destiny.

The beauty of starting or expanding a business is that you are free to choose what kind of business. Not the business you could start, but the business you should start. Because we all have to make a living. But we also need to live. **P**

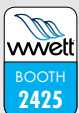
MERRY

Christmas

Wishing our industry
friends health & happiness
this holiday season.

*Dashing through the snow,
Pumping pots along the way,
When folks have to go,
Your potties save the day!*

*Brine and blue you bring,
Cleaning units right
When eggnog flows,
they'll thank the PROS
For porta-pots tonight!*



Wonderful Workhorses

2023 Classy Trucks set the high standard for septic service for their lucky owners

By Jim Kneiszel



As we look back on 2023, pumpers have faced many challenges, and their trusty vacuum service trucks have helped them meet every one of them. Many pumping companies have been busier than ever, and they've been asking their trucks to work just as hard as they do. The daily and weekly service schedule grows, more tanks get pumped, more contractors are stretching the pumping season to accommodate customer demands.

And what goes along with increased workload? The need for new, bigger and more powerful vacuum trucks. And they must be reliable, efficient, well-designed and thoughtfully produced to keep you on the road and earning a living. The industry's truck-builders have responded to this growing demand and continue to work through supply chain issues to produce high-quality rigs pumpers are proud to own and happy to be driving when they pull up to customers' homes and businesses.

Need evidence of the quality truck products manufactured for pumpers in the U.S. and Canada? Look no further than the trucks you see displayed here — our dozen Classy Trucks of the Month for 2023. What you see here are some great examples of the best commercial truck chassis, carrying quality-built tank and pump or blower combinations. There are loads of shiny bits, the latest driver convenience features, and trucks wrapped in paint and graphics that rival the best any service industry can produce.

This is some really good stuff, and we thank the pumpers who have submitted their favorite trucks for the Classy Truck feature. We know that hours upon hours of work went into designing the specs for their trucks and detailing the rigs for proper presentation in the magazine. We congratulate all the monthly winners and encourage all *Pumper* readers to submit their own favorite trucks for future issues.

Now comes the fun part. And we need your help. With your input, we'll pick the Classy Truck of the Year for 2023 and feature the service vehicle and its owner in our February 2024 issue.

Here's another look at the rigs featured in the past 12 issues of the magazine. Follow the instructions to cast a vote for your favorite at www.pumper.com/classy. **P**

CAST YOUR BALLOT TODAY!

Step 1. Look over the 12 Classy Trucks for 2023.

Step 2. Choose your favorite.

Step 3. Go online at www.pumper.com/classy and vote. (One vote per IP address allowed.)

ACT NOW!

The deadline for voting is Thursday, Dec. 21.

➤ JANUARY



John Kline Septic Services Mount Joy, Pennsylvania

Kyle Kline added a Grey 2021 Kenworth T880 with a 5,500-gallon aluminum tank and National Vacuum Equipment 4310 blower from Pik Rite. The truck is powered by a 510 hp PACCAR MX-13 engine tied to a 12-speed automatic transmission. Features include a Garnet Seeelevel gauge, dual aluminum toolboxes, 4-inch fill and dump valves, aluminum hose trays with liner, Alcoa Dura-Black aluminum wheels and a coated front bumper. The interior features heated memory sense driver seat and Bluetooth radio. The driver is David Muma.

➤ FEBRUARY



Abel Sanitary Services Berlin Heights, Ohio

David Pinkerton added a yellow and white 2012 Freightliner M2 with a steel 4,000-gallon tank and 407-cfm Masport Hydra pump built out by 27th Trucks. The truck is powered by a 350 hp Cummins engine tied to an Allison automatic transmission. Features include aluminum hose trays, diamond plate hose guards and toolbox, aluminum wheels, 24-inch rear and 20-inch top man-ways, LED lighting and safety beacons, rear step bumper, air-ride seats and heated mirrors.

➤ MARCH



Duncan & Daughters Septic Service Bardstown, Kentucky

Danny Duncan added a metallic red and white 2020 Kenworth T370 with a 2,500-gallon steel tank and National Vacuum Equipment 866 pump built out by Stephenson Specialty Trucks. The truck is powered by a 325 hp PACCAR engine tied to an Allison 3000 automatic transmission. Features include powder-coated hose trays with stainless steel bolts, LED marker lights and a heavy-duty red LED under-glow lighting kit, steel water tank, dual-side toolboxes and backup camera.

➤ APRIL



Martin's Sanitation Service Paris, Kentucky

Mike Thornton added an Axalta metallic pearl black 2021 sleeper cab Peterbilt 389 built out by Pik Rite with a 5,000-gallon waste/200-gallon freshwater steel tank and National Vacuum Equipment 4310 blower. The truck is powered by a 565 hp Cummins engine tied to an Allison automatic transmission. Chassis upgrades installed by Martin's Peterbilt include a drop bumper, extra cab and bunk lights. Features include a custom Crust Buster locker behind the sleeper. Leon Florence and Jordan Honeycutt are the drivers.

► MAY



Van Liew Septic Services
Pennellville, New York

The Kline family added a white 2022 Freightliner M2 with a 4,000-gallon aluminum tank and a 530-cfm National Vacuum Equipment 887 pump built out by Imperial Industries. The truck is powered by a 350 hp Cummins L9 engine linked to an Allison 3000 RDS automatic transmission. The truck is equipped with a Chelsea hot-shift PTO, a Garnet SeeLevel Annihilator gauge, aluminum wheels and toolbox, and dual rear LED work lights. Drivers include the three owner-operators, Jeff, Barry and Kasey Kline.

► JUNE



Timothy A. Giard & Son Plumbing & Heating
North Andover, Massachusetts

Timothy Giard added a white and blue 2007 International 4300 with a 2,500-gallon steel tank and Jurop R260 pump. The truck is powered by a DT466 engine tied to a 5-speed Allison automatic transmission. Features include dual aluminum toolboxes, aluminum wheels, chrome bumper, strobe lighting, LED work lights and dual captain's air-ride seats. Jeremy Giard and Paul Dubois are the drivers and the truck is used for residential septic service.

► JULY



Blue Ridge Sanitary Services
Germansville, Pennsylvania

Adam Lynn added a Viper red 2012 Peterbilt 388 with a 4,800-gallon steel tank and Fruitland RCF-500 pump built out by J&J Truck Bodies. The truck is powered by a Cummins ISX 15 engine tied to an 18-speed Eaton transmission. Features include heated valves, power mirrors, a rear bumper with dual built-in toolboxes, cloth seats, woodgrain steering wheel and tinted power windows. Adam Lynn is the driver.

► AUGUST



Dotson's Septic Tank Service
Ridgeview, West Virginia

Marcus Esch added a white 2023 Western Star 4700SB with a 4,250-gallon aluminum tank and National Vacuum Equipment 4310 blower built out by Imperial Industries. The truck is powered by a 475 hp Detroit DD13 engine tied to an Allison 4500 RDS automatic transmission. Features include a Garnet SeeLevel gauge, chrome visor horns, toolboxes and wheels, premium interior package with leather air-ride seats and air-ride cab.

► SEPTEMBER



S.O.S. Septic
Englewood, Florida

Owner Terry Jacobson added a silver metallic 2019 Peterbilt 389 with a 5,800-gallon Aluminum tank and Fruitland 500 pump built out by Engine & Accessory. The truck is powered by a 525 hp Cummins X15 Performance Series engine and Allison 6-speed automatic transmission. Features include a Bruder full-opening rear hatch and hoist, custom hose trays and leather upholstery. Jared Wood is the driver.

► OCTOBER



Northern Rock Septic and Property Service
Rhineland, Wisconsin

Robert Kuhn added a green and white 2011 Mack Granite GU 713 with a 4,650-gallon steel tank and National Vacuum Equipment Challenger 607 pump built out by Imperial Industries and repainted by Kuhn. The truck is powered by a 505 hp MP8 engine tied to a 10-speed Eaton transmission. It features a chrome visor, stack and horns, diamond plate hose guards and full air-ride cab and seats.

► NOVEMBER



Wally's Flower Wagon Disposal Ltd.
Norwood, Ontario, Canada

Brad and Wally Ramsay added a Coca-Cola Red 2023 Western Star 47X carrying a 3,963-gallon steel tank and National Vacuum Equipment 4310 blower built out by Transway Systems. The truck is powered by a 375 hp Cummins L9 engine mated to a 6-speed Allison Automatic transmission. Features include stainless steel tank racks, a Garnet SeeLevel digital gauge, dual toolboxes, heated and ventilated leather seats and a premium interior package. Peter Mair and Ben McIlmoyle drive this and a twin rig.

► DECEMBER



Creech's Plumbing
Wilson, North Carolina

Stacy Creech added a 2023 Kenworth T880S painted Kenworth Red Effect carrying a 4,500-gallon waste/250-gallon freshwater steel tank and National Vacuum Equipment 4310 blower from Integrity Tank. The truck is powered by a 455 hp PACCAR MX-13 engine tied to an Allison Automatic 4500 RDS transmission. Features include an onboard jetter and washdown system from PumpTec, a remote control system installed by Imperial Industries, dual toolboxes, stainless steel accents and tan two-tone leather upholstery.

MAKE YOUR NEW RIG A CLASSY TRUCK!

Seeing your truck in the pages of *Pumper* is easy!

Step 1. Clean and detail your truck.

Step 2. Take a variety of photos.

Step 3. Send the photos to us, along with a detailed description of the truck and accessories, to editor@pumper.com.



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B1100 SPARTAN PUMP PACK

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Septic Systems and Maintenance

By Craig Mandli

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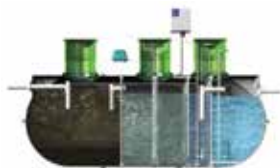
Delta Treatment Systems ECOPOD-NR

The ECOPOD-NR for advanced wastewater treatment from **Delta Treatment Systems** is designed to meet the growing demand for

total nitrogen reduction in wastewater. The system meets the need in Florida for treatment systems to achieve greater than 65% total nitrogen reduction. NSF/ANSI 40 and 245 certification testing demonstrated the ability of the ECOPOD-NR to reduce influent total nitrogen by more than 68%. The 500 gpd ECOPOD E50-NR model includes an aerator to provide air for the treatment process and create an airlift to recirculate treated wastewater from the treatment chamber back to the pretreatment chamber. According to the maker, this enhances the unit's denitrification capabilities. **800-221-4436; www.infiltratorwater.com**

Infiltrator Water Technologies AeroFin

AeroFin from **Infiltrator Water Technologies** offers passive onsite wastewater treatment for residential applications with limited space. As a combined treatment and dispersal system, it treats and disperses effluent in the same footprint, utilizing media and specified sand. The manufacturer reports the system is proven to remove up to 99% of wastewater contaminants without using any electricity, replacement media or additional maintenance and can treat domestic wastewater to Class I NSF/ANSI 40 standards. Each unit is 8 feet long and has an outside dimension of 12.75 inches. Conduits and manifolds are manufactured using recycled polyethylene and feature snap-lock couplings and PVC piping for easy system assembly. With a compact design, delivery can be made using a standard pickup truck. **800-221-4436; www.infiltratorwater.com**



MicroSepTec EnviroServer ES

The **MicroSepTec EnviroServer ES** (Extended Storage) is designed for residential and commercial applications. It utilizes pre-engineered, prefabricated MBBR technology.

In residential settings, it combines various processes to remove contaminants to ensure safe disposal or reuse of water. The system is designed to be compact, easy to install and low-maintenance, making it suitable for homes and small communities. It also offers efficient

wastewater treatment solutions for businesses, commercial buildings and larger establishments, with its extended storage capacity allowing processing of higher volumes of wastewater. **877-473-7842; www.microsepte.com**



Norweco Singulair Green

Norweco's Singulair Green with optional 520-gallon integrated pump tank offers an easy-to-install, all-in-one system for situations that require a downstream pump tank, according to the maker. The system

with optional pump chamber returns clean, highly treated effluent to the environment. **800-667-9326; www.norweco.com**

AERATION SYSTEM

Wholesale Septic Supply Tempest Diffuser

The **Tempest Diffuser** from **Wholesale Septic Supply** is placed inside the ATU to introduce oxygen to promote aerobic bacterial growth. It provides airflow of 5.65 cfm, and measures a compact 8 by 14 inches. It comes with a 1/2-inch NPT connection and includes a swivel joint for flexibility in tight spaces. **936-681-8198; www.wholesaleseptic.com**



ALARM SYSTEM/COMPONENTS



Anua i/o.site

The **i/o.site** system from **Anua** provides performance monitoring of electromechanical components while keeping everyone connected to information through a web interface. It can remotely monitor blowers, aerators, pumps, float switches or motors. It tracks water use, catches motor issues before failure, uses any mobile device or computer, and monitors any powered onsite system. **336-547-9338; www.anuainternational.com**

EFFLUENT/SEWAGE/SUMP/AERATION/GRINDER PUMPS

Ashland Pump Effluent Pumps

Heavy-duty effluent pumps from **Ashland Pump** are available in multiple horsepower sizes for various performance requirements, and feature efficient permanent split capacitor motors. The oil-filled pumps have an upper and lower ball bearing design and handle solids up to 3/4 inch. They are heavy-duty cast iron, with cast iron impellers and equipped with a piggyback switch (20-foot standard cord) or in manual configurations. They are offered in 3/10, 4/10, 1/2, 3/4, 1 and 1 1/2 hp models. **855-281-6830; www.ashlandpump.com**



Liberty Pumps ProVore

The **ProVore** grinder from **Liberty Pumps** is designed for use in applications where addition of a bathroom or other fixtures below sewer lines requires pumping. It has the same V-Slice cutter technology used in the Omnivore Series. Powered by a 1 hp motor, this smaller grinder is designed to operate on a standard 115- or 230-volt circuit, requiring

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JOHNSTOWN, PA 888-442-7829

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THANK YOU FOR ANOTHER GREAT YEAR! 2023 HAD ITS OWN CHALLENGES AND WE COULDN'T HAVE GOTTEN THROUGH WITHOUT OUR DEDICATED TEAM, DEALERS, VENDORS AND CUSTOMERS! THANK YOU!

WE LOOK FORWARD TO SEEING YOU AT THE WWETT SHOW IN INDIANAPOLIS AND ALL OF THE OTHER EVENTS COMING UP IN 2024!

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Merry Christmas!

FROM OUR TEAM TO YOURS,
WE WISH YOU THE HAPPIEST OF HOLIDAYS AND A SAFE & HAPPY NEW YEAR!
-TEAM GAPVAX



only a 20-amp breaker. No special wiring is needed. The pump comes with a 2-inch vertical-style discharge and a standard leg pattern matching the LE Series. This allows for easy retrofit into existing systems. Compact factory-assembled systems are available in simplex and duplex versions: the ProVore 380 and ProVore 680. **800-543-2550; www.libertypumps.com**

Little Giant 16G Series

The **Little Giant 16G Series** is a heavy-duty 1 hp grinder pump designed for high head sewage or effluent removal in challenging residential and light commercial wastewater and clog-prone applications. The cutting mechanism produces more than 745,000 cuts per minute and is based on the design used in larger Franklin Electric models. The 1 hp class F motor is designed to prevent flushables and other debris from clogging and causing downtime, while the discharge is customizable to a contractor's needs. Installers can choose the 1 1/4-inch discharge or the 2-inch adapter preassembled to the pump, making it a drop-in replacement for effluent or sewage pumps struggling with clogs and binding, regardless of discharge size, according to the maker. **800-701-7894; www.littlegiant.com**



Saniflo Sanicubic 2 VX

The **Sanicubic 2 VX** lift station from **Saniflo** provides above-floor drainage for multiple plumbing fixtures in a commercial structure, eliminating the need for pit installations. It is a solution for projects where conventional,

below-floor drainage is not practical. Equipped with two 1.5 hp motors, the lift station is capable of discharging effluent through either 2- or 4-inch rigid pipe and offers a shutoff head of 43 feet. Its internal air pressure switch automatically cycles the unit on and off. The unit also comes equipped with a wired control panel, as well as an external audible and visual LED indicator alarm. Featuring easily removable circular panels on top, the IP68 enclosure provides access to every major internal component. **800-363-5874; www.saniflo.com**

FILTERS

Polylok PL-250

The **PL-250** effluent filter from **Polylok** is designed to handle up to 3,000 gpd with 250 linear feet 1/16-inch linear filtration. It is easy to install and designed for functionality and longevity, according to the maker. The cartridge cannot be installed incorrectly, with no direct bypass, and will fit any standard 6-inch tee. Its W design prevents solids from settling. **877-765-9565; www.polylok.com**



Sim/Tech Filter pleated filter units

Pleated filter units from **Sim/Tech Filter** provide gravity effluent filtration in septic tanks and turbine pump filtration in pump tanks. The filtration size is 3/32-inch in two dimensions. Flow channels in the pleated material increase



longevity. All filter types start at over 2,000 square inches of filtration area. The 45% open area (over 900 square inches) is equivalent to 800 linear feet of 3/32-inch slots. Various configurations and larger units are available. **888-999-3290; www.simtechfilter.com**

HAND AND POWER TOOLS/SAFETY EQUIPMENT

Milwaukee Tool M12 Stick Transfer Pump

Milwaukee Tool's M12 Stick Transfer Pump transfers water without interruption, delivers superior filtration and eliminates manual pumping, according to the maker. Featuring a 36-inch submersible aluminum barrel, the pump has reach and inlet control to get to water in difficult-to-access areas such as trenches, storm drains and water meter boxes. Milwaukee's new HydroPass filter technology maximizes water flow in heavy debris to pump up to 9 gpm. The 360-degree filter minimizes downtime caused by clogging. With a 15-foot maximum head height and an outlet compatible with a 3/4-inch garden hose, the water transfer pump pushes water out of pits, basins and over walls. **800-729-3878; www.milwaukeetool.com**



Satellite Industries Consumables Division Helix 3070

The **Helix 3070** glove from the **Satellite Industries Consumables Division** is constructed with an 18-gauge flexible mix of HPPE and fiberglass for strength, comfort and safety. The natural foam latex coating provides 360-degree fluid resistance through the knit cuff while maintaining dexterity. The wrinkled rubber palm coating enhances grip and abrasion resistance, making it suitable for demanding tasks, wet or dry. Hands are well protected with its ANSI/ISEA cut score of A2 and a puncture/abrasion score of 4. It is available in an insulated version as well. It is designed to last weeks of heavy-duty work, and comes in sizes ranging from small to XXL. **800-883-1123; www.satelliteindustries.com**

T&T Tools Mighty Probe

The **Mighty Probe** from **T&T Tools** has a 3/8-inch hex rod (approximately 20% stiffer than a round rod) or a 7/16-inch hex rod (approximately twice as stiff as the standard round rod). Stiffer hex rods make the probe easier to push into the ground, especially when probing at deeper depths. Lengths are available from 36 to 78 inches in 6-inch increments. When the probe is combined with a slide adapter, an integrated mini slide-hammer probe is created, used to pound through difficult spots. **800-521-6893; www.mightyprobe.com**



PRESSURE WASHERS AND SPRAYERS/JETTERS

Cam Spray MCB3040

The **MCB3040** skid-mounted, hot-water pressure washer from **Cam Spray** is designed to move easily from truck to van to trailer. It produces 4 gpm at 3,000 psi from a Honda GX390 industrial gas engine and triplex plunger



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pump with ceramic plungers and stainless steel valves. It is equipped with low-pressure chemical injection and is protected by an unloader valve and secondary pressure pop off. The burner system includes a rust-free fuel tank, Schedule 80 coil with stainless steel wrap, and is controlled by an adjustable thermostat and temperature limit switch for a maximum temperature of 195 degrees F. The

frame is constructed using industrial-coated 2-inch tubing and comes with a wand/hose rack. A heavy-duty trigger gun with a dual wand and side handle valve allows switching from high pressure cleaning to detergent application and comes with quick change 0-, 15-, 25- and 40-degree nozzles. **800-648-5011; www.camspray.com**

Cat Pumps Model 7CP6165CSG1

The **Cat Pumps Model 7CP6165CSG1** is designed to handle demanding sewer jetting applications with a rating of 8 gpm at 3,500 psi. and a compact footprint. It converts to a jetting pump by adding a pulsator assembly, which eliminates the danger of deadheading the pump, prolonging the life of the seals and reducing unplanned downtime. A convenient handle allows for a quick changeover from cleaning to jetting modes. It uses an industrial-duty gearbox that attaches directly to 1- or 1 1/8-inch 3,265 rpm gas engines. The gearbox allows for a smaller footprint and features hardened steel helical gears designed for smooth, quiet operation. The sealed housing provides independent gear lubrication. **763-780-5440; www.catpumps.com**



Hydra-Flex Aqua-Rocket

The **Aqua-Rocket** from **Hydra-Flex** is a heavy-duty nozzle built to wash away the toughest commercial and industrial cleaning challenges. It is constructed with a stainless steel housing and tungsten carbide wear surfaces to withstand

harsh environments and provide a long life span. With the tungsten carbide tip, it can start and stop both vertically and horizontally. It includes a high-temperature, drop-resistant rubber cover and blasts a concentrated 0-degree water stream that ranges between 750 and 5,600 psi. Its 22-degree cone-shaped, rotating spray pattern creates an impingement force strong enough to take on difficult challenges including graffiti, heavy equipment and car washes. It was designed to be repairable — not replaceable — and repair kits extend the nozzle's life. **952-808-3640; www.hydrflexinc.com**

Jettters Northwest Brute Portable CART Jettters

Brute Portable CART Jettters from **Jettters Northwest** provide trailer-sized power on four wheels for easy portability. Available at either 9 gpm/4,000 psi (CART-4009) or 12 gpm/3,000 psi (CART-3012), the jettters can utilize many root-cutting nozzles. The compact jettters can also be converted to a mountable skid, and can be connected to a larger water tank. Fuel-



injected engines provide choke-free electric-starting and work with the optional wireless remote-control which controls jetting on/off and engine on/throttle/off. They also feature handy panel-mounted controls, 300 feet of jetting hose (400 feet optional) on a 12-volt power reel (optional hand-crank reel), adjustable pulsation control, and four jetting nozzles. Propane-fueled engines and more options/upgrades are available. **877-901-1936; www.jetttersnorthwest.com**

PUMP CONTROL PANELS



Orenco Systems 4-in-1 Controller

The **4-in-1 Controller** from **Orenco Systems** supports numerous electrical configurations and dosing schedules in a single panel. Both simplex and duplex models are available and can be configured in the field for timed or demand dosing. While the control circuit operates on 120-volt power, the pump circuit is dual-rated for 120- or 240-volt power. It includes a programmable logic unit with multiple timing intervals for changing flow conditions and an elapsed-time meter and counter. It also displays float position and has a float error indicator. Each panel includes a reference chart to assist with troubleshooting during installation and testing as well as wiring diagrams. It is touch-safe. **877-257-8712; www.orenco.com**

SJE Rhombus Installer Friendly Series

Installer Friendly Series single-phase panels from **SJE Rhombus** offer an easy-to-use color LCD on the inner door for programming and system monitoring. While in the field, use the menu navigation to select pump hand/off/auto mode, convert between demand or timed dose operation, adjust pump activation levels and switch between traditional floats or the C-Level sensor for continuous level monitoring. Users can check the tank level indication and setpoint monitoring at a glance. The simplex panel controls one 120/208/240-volt single-phase pump, while the duplex controls two 120/208/240-volt single-phase pumps in water and wastewater applications. The panels are UL/cUL Listed. **888-342-5753; www.sjrhombus.com**



SPI 50B019-120-240 DD

The **50B019-120-240 DD** control panel from **SPI** is a duplex timed-dosing panel for residential or commercial applications. It can be used with 120- or 240-volt power, and accommodates two dosing pumps controlled by a repeat-cycle timer. It has a durable, weather-resistant, NEMA 4X polycarbonate enclosure with SST latches; large, easy-to-access terminal block; circuit breakers for the pumps and control circuits; a rugged externally mounted, UV-resistant alarm light; audible alarm and run-mute-test switch with UV-resistant sealing boot; definite purpose motor contactors; alternating relay; and pump hand-off-auto switches. Compressor hookups are available. Wiring schematic and detailed connection diagrams are provided, as well as mounting feet for the enclosure. It is UL-listed. **419-282-5933; www.septicproducts.com**

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Zoeller Pump Pivot

Pivot control panels from **Zoeller Pump** employ microchip technology and logic to allow for a long list of standard features. The panel is capable of detecting, reacting and notifying of problems with float switches. It can also detect bad components like contactors, overloads and seal fail circuits. This means a warning is provided before the failure results in property damage. It has a simple interface and can be modified for most applications. **800-928-7867; www.zoellerpumps.com**



RISERS/LIDS



TUF-TITE tank risers

Tank risers from **TUF-TITE** have internal supports or ledges to reinforce internal plastic safety lids. The ledges will strengthen the company's plastic internal safety lids or a variety of internal safety devices made by others, such as concrete, fiberglass or rope netting. The riser lids come

with necessary mounting hardware, including safety screws. **800-382-7009; www.tuf-tite.com**

SEPTIC SYSTEM BACTERIA

Cape Cod Biochemical CCLS

CCLS from **Cape Cod Biochemical** was originally formulated for municipal waste treatment facilities, and the technology has been miniaturized for onsite septic systems. It contains enzymes immediately available to break down solids buildup in drains, pipes, septic tanks and soil absorption systems. It also contains reproductive bacteria for continued aid in solids digestion and settling, suspended solids removal and odor control. Regular use along with periodic pumping is intended to provide many years of trouble-free service, according to the maker. **800-343-8007; www.septiconline.com**



Century Chemical Bio-Tab

Bio-Tab from **Century Chemical** is a tablet that sinks to the bottom of septic tanks where buildup problems begin. There, self-reproducing bacteria and enzymes gradually dissolve to create a growing area of activity, digesting and liquefying organic waste — treating the entire system, including the

drainfield, according to the maker. Common household chemicals such as anti-bacterial products, bleaches, detergents or a heavy presence of antibiotics can kill already-low levels of bacteria in the septic system. When this happens, waste is no longer being digested, resulting in buildups of solids that plug the system and give off offensive odors. Bio-Tab establishes itself by working from the inside out, and regular usage — combined with routine pumping — can aid and support the natural digestion of waste, helping septic systems maintain good working condition. **800-348-3505; www.bio-tab.com**



J&J Portable Sanitation Products NuTank

NuTank septic system treatment from **J&J Portable Sanitation Products** is designed to replenish the enzymes in the septic tank. With highest concentrations of billions of specific bacteria, the manufacturer contends it will break down solids, scum and sludge for a healthier septic system. Using it monthly can help reduce the potential for backups and costly repairs such as drainfield damage, according to the maker. It is designed to boost the decomposition process, even battling harsh detergents and antibacterial products. Users toss one self-dissolving packet into a drain or toilet and wash or flush down. It is safe for all plumbing and environmentally friendly. It is packaged to be resold by septic pumpers in 12 packets per jar and 12 jars per case. The septic company's contact information can be added to each jar. **800-345-3303; www.jjchem.com**



Lenzyme

Lenzyme is an enzyme-bacteria product used as a septic biological maintainer, drain cleaner and sewage treating agent in the home and in industrial, commercial and municipal installations. It can be packaged in the company's brand name or private labeled. It may also be used in formulations designed for



a given condition or application, such as drains, septic tanks and cesspools, and for industrial and commercial application. It is approved by the USDA for use in sewage and/or drainlines of establishments operating under the federal meat, poultry and egg products inspection program and is sold only to licensed contractors. **800-223-3083; www.lenzyme.com**

Oatey Hercules Bacta-Life

Hercules Bacta-Life from **Oatey** is a concentrated powdered product formulated to bacterially repopulate recently pumped septic systems. It is a blend of specialized microbes, potent enzymes, micronutrients and growth accelerators to digest grease, soap scum, starch, proteins, carbohydrates and cellulose/paper. The product disperses quickly on contact with water, and begins to break down deposits and neutralize odors. It contains no acids, caustics or solvents and is safe for use in all areas of wastewater plumbing. It is designed to enhance the natural biology of cesspools, septic tanks and drainage areas, removing heavy buildup in traps, drains, sewers and sump/lift stations when used on a regular basis, according to the maker. Regular use maintains free-flowing drains and sewers and helps keep septic systems at full activity, the company states. It can also be used in commercial grease traps, for sewer and drainline maintenance, and backyard composting. **800-321-9532; www.oatey.com**



Walex Bio-Active Septic Tank Treatment

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according to the maker. One packet contains billions of beneficial bacteria and enzymes that help prevent clogged drainfields, backups, overflows and bad odors. Drop one packet in the toilet and flush. Each bag is a one year's supply. **800-338-3155; www.walex.com**

SEPTIC TANK

Roth North America MultiTank

The **MultiTank** from **Roth North America** can be used for water cistern, pump, holding, rainwater or septic tank applications. This is possible due to its inner layer of FDA-approved virgin HDPE, two inside layers of polyethylene for improved stability, plus one outer layer of black and UV-stabilized polyethylene. Features include CSA, NSF and IAPMO certification, a COEX-4 multilayer co-extrusion process, a low-profile design for less digging and avoiding high water tables, lightweight construction, a multiport inlet/outlet convenient for field piping, the ability to enter and exit the tank on the ends or sides, two 24-inch manways to provide easy access for maintenance and service, a cylindrical shape requiring no water for backfill, a threaded riser system and watertight, seamless construction. **866-943-7256; www.rothmultitank.com**



SEPTIC TANK AGITATOR



Crust Busters agitator

The handheld power agitator from **Crust Busters** has an 80-inch shaft and two- or three-blade propeller designed to mix a 1,000-gallon septic tank in five minutes. Options include 2-, 4-, 6- and 9-foot extensions and a short three-blade shaft that adapts to the two-blade unit. **763-878-2296; www.crustbusters.com**

UV DISINFECTION EQUIPMENT

Jet Inc. Illumi-Jet UV disinfection unit

The **Illumi-Jet** UV disinfection unit from **Jet Inc.** is capable of reducing fecal coliform bacteria levels to well below the most stringent U.S. treatment standards, according to the maker. It uses a germicidal lamp that emits 95% of the ultraviolet energy at the wavelength of 254 nanometers. This wavelength is in the region of maximum germicidal effectiveness and is lethal to virus, bacteria, protozoa and mold. The disinfection chamber couples directly with any system's 4-inch discharge pipe, and it is permanently installed below grade. When fully inserted, the lamp housing is correctly positioned by an integrated keyway near the top of the disinfection chamber and creates a well-defined flow path, ensuring system effluent has the proper ultraviolet exposure time. Under standard operating conditions, fecal coliform reduction exceeds 99.9%. **800-321-6960; www.jetincorp.com**



VENT PIPE FILTER

Simple Solutions Distributing WVI Inline

The **WVI Inline** activated carbon filter from **Simple Solutions Distributing** is installed in an attic or crawl space inline of the current vent to remove septic odor. The filter comes in 4- and 6-inch sizes, with the smaller unit able to be bushed down to 1.5-, 2- and 3-inch sizes. It comes with 2 pounds of Sulfursorb Plus activated carbon, which is poured into the 2-inch fill port. The unit accepts an optional screw-in saturation indicator that changes color to indicate when carbon needs to be changed. It is suitable for extreme, cold climates, as it is enclosed in an attic or crawl space. It can be installed in any climate where septic or sewer vent odor exists and the roof vent filter needs to be hidden. **973-846-7817; www.industrialodorcontrol.com P**



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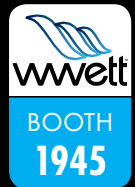
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Sand filtration system for site with high water table



Problem: A three-bedroom home was being built on a tight lot in Norwalk, Ohio. The property has a perched seasonal high water table at 20 inches below grade, and the homeowner wanted the system to be in the front yard to preserve backyard space. The system would also need a nonstandard configuration to meet multiple setback requirements.

Solution: A shallow L-shaped mound was designed to meet the setbacks from the road, driveway and property line. A pump to a gravity **Eljen GSF** system was chosen to allow for a 1-foot depth credit to the seasonal high water table. Flenner Water Well and Excavating installed the mound system, which included 27 **A42 GSF** modules as well as a dual-chamber 1,500-gallon septic tank and a 500-gallon pump chamber from Spoerr Precast. The mound's bed area has one row of **A42** modules, and measures 4 feet wide by 108 feet long, with an overall basal area of 16 feet wide by 121 feet long.

Result: The depth credit reduced the amount of sand needed for the site, producing a shallower mound. Utilizing the front yard, the homeowner will preserve the backyard. **800-444-1359; www.eljen.com**

Treatment units specified in environmentally sensitive area



Problem: Two neighboring residences located on Three Mile Harbor in East Hampton, New York, had collapsing cesspools that needed to be replaced with a low-nitrogen treatment unit pursuant to new sanitary mandates implemented by the town and county. The project was complicated by the properties' close proximity to the harbor and the resultant high-water table.

Solution: Advanced Wastewater Solutions and A&A Sewer and Drain teamed up to replace the failing cesspools with **FujiClean CEN5** onsite treatment units leading into a pressurized shallow drainfield consisting of an Orenco Simplex Pump Station discharging into two rows of chambered drainfield. The CEN units are designed to remove upwards of 80% of nitrogen from the wastewater effluent through contact filtration whereby the wastewater is recirculated through aerobic and anaerobic chambers in direct contact with fixed film media, facilitating biological digestion and mechanical filtration. The pressurized shallow drainfield further reduces total nitrogen and provides treatment of other contaminants by evenly distributing the effluent within 18 inches of the topsoil horizon where increased microbial activity and nutrient absorption occurs.

Result: Pursuant to a special emergency replacement program adopted by Suffolk County, the contractors were able to bypass the usual months-long sanitary design and approval process and replace both failed cesspools in a total of three days. **207-406-2927; www.fujicleanusa.com**



ATU replaced collapsed septic system on waterfront property

Problem: Waterfront homeowners in Cheboygen County, Michigan, had their septic tank collapse and needed to install a new system to service both the family home and a small cottage on the property.

Solution: **SludgeHammer** initially proposed an advanced treatment system and subsurface dripfield new system that would fit in the space between the buildings. County regulators objected because a geothermal system was already occupying that space. Instead, the county waived the required 100-foot setback from the lake so the dripfield could be installed on the lake side of the house. The county approved the SludgeHammer technology because it moved the disposal point much closer to the surface and further from the water table, which would protect the lake water quality.

Result: The latest test with up to 10 mg/L BOD and TSS and a Total Nitrogen of 17 mg/L confirmed the county's decision. As an added bonus, the homeowners no longer have to spread high-phosphate fertilizer on their lakefront lawn, further reducing nutrient runoff. **231-348-5866; www.sludgehammer.net**



Septic vent helps keep drainfield healthy and odor-free

Problem: A homeowner in Massachusetts was in the process of a septic repair installation when they noticed a plastic PVC candy cane being installed in the yard. Disturbed by the appearance and potential for odor, they asked the installer for another option.

Solution: The installer purchased a **Pagoda Vent Company** septic vent.

Result: The customer was happy with the final result and the drainfield, along with all the subsurface components, will get the oxygen they need. **888-864-1468; www.pagodavent.com**



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CASE STUDIES



Water reuse helps facility go green

Problem: A veterans health clinic in Sedalia, Missouri, was required to accumulate Leadership in Energy and Environmental Design points to receive government funding. Water conservation as well as waste reduction needed to be considered.

Solution: J-Squared Engineering reached out to **Webtrol Pumps** to provide an NSRF350 waste treatment system that could provide water reuse. They proposed a **BioBarrier MBR** system, which has met NSF 350 standards and accreditation. Graywater from the facility was directed to a tank containing the device, where it was treated and stored in a compartment containing a Webtrol submersible pump, which pumps into the restroom systems of water closets and flush valves. By reusing graywater for restroom use, the facility saves on freshwater needs and reduces flow into the city sewer system.

Result: The MBR unit was installed on the side of the facility and landscaped, while providing access for maintenance. The reused water contains no contaminants, including *E. coli*, due to the high filtration of the MBR. The facility was granted LEED points, utility bills are reduced, and the environment is a little cleaner due to less wastewater in the sewer system. 800-769-7867; www.webtrol.com **P**



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Everything, Including Development, Is Bigger in Texas

This pumping and onsite company hopes improving onsite technology and water reuse efforts will preserve a dwindling resource for a fast-growing populace

Compiled by Betty Dageforde



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

Name and title or job description: Patrick Kern, vice president, and Chase Kern, general manager

Business name and location: Paramount Wastewater Solutions LLC, Temple, Texas

Services we offer: Septic pumping, roll-off services for picking up dry sludge, and a commercial Orenco dealer; retail store and sell septic products, retail and wholesale, to contractors

Age: Patrick 56, Chase 27

Years in the industry: **Patrick:** I've been in it 28 years. I was previously a real estate appraiser. With the sprawl from the cities into the suburbs, I saw how people were needing onsite systems. The appraisal industry wasn't doing real well at the time so I was looking to make a change and moved over into septic.

Chase: I grew up with it but professionally I've been here three years to help my parents run the business.

Association involvement: **Patrick:** I've been a member of the Texas On-Site Wastewater Association for about 10 years. I am on the board of directors and have served on several committees.

Benefits of belonging to the association: **Patrick:** TOWA is very active. It's an intermediary between our members and the regulators. We try to prevent overreaching regulation, police our members, work with the Texas Commission on Environmental Quality for suggestions on research and development, and we're active in the legislative process. We try to educate the members — for example, we have really been active on stressing the importance of securing tank lids and secondary fall prevention.

Chase: TOWA is good for advocacy. It really does an excellent job visiting the capitol, representing the contractors, coming up with realistic solutions on the regulations side, and informing the legislature on what they should proceed with.

Biggest issue facing your association right now: **Patrick:** Keeping up with the big influx of people into Texas is a challenge. We have

diminishing water levels and have to keep them clean. We have an excellent group of installers and designers but we're continually trying to improve the process. There's a lot of research going into reuse and looking at other avenues to prevent groundwater contamination.

Our crew includes: **Patrick:** We have a staff of 16. My wife, Krista Kern, is the president and chief financial officer. Our operations manager David Wharton handles the day-to-day trucking operation. Our sales manager Hannah Fischer controls most of our retail and wholesale sales.

Typical day on the job: **Patrick:** When I arrive I speak with the managers and work on the policies, processes and procedures — trying to hone that in and help them, make their lives easier. They carry the weight around here and I try to use my experience to help them out.

Chase: My dad is specialized in and really good at decentralized wastewater treatment and treatment of commercial sites and does a lot of



▲ The Paramount Wastewater Solutions leadership team includes, from left, Chase Kern, Hannah Fischer, Krista Kern, Patrick Kern, David Wharton, and office pets Dundee and Zoe. (Photo courtesy of Paramount Wastewater Solutions)

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consulting. He and Hannah work together on that. When I come into the office I talk with Hannah about the sales for the day as well as stocking different products. Once she and I are on the same page I talk with David about the status of trucks and drivers. Then I move to our customer service representatives and make sure customers are receiving availability and pricing on good terms and that we are keeping a healthy cushion on when we're booking out jobs.

The job I'll never forget: **Patrick:** We had a call come in one night around 8 p.m. It was a woman whose husband had been deployed overseas and she couldn't flush any of her toilets. Normally we would try to push somebody off until the next day but she had kids and this was a special situation so we headed out. My wife and I and one other employee were the only ones available. We ended up having to dig it up. There was a huge root ball in the line. In the middle of all that I noticed my wife had disappeared — she was only there for emotional support, anyway. I looked up and she and the woman were having a glass of wine while we were toiling away. It was about 3 in the morning when we got done but we got her taken care of.

My favorite piece of equipment: **Patrick:** I like the larger vacuum trucks — 4,000 gallons or more (Mack and Freightliners built out by American Tank with aluminum or steel tanks and National Vacuum Equipment blowers or Fruitland pumps). I also like our RIDGID locators and our Bobcat mini excavator, which has worked out wonderfully for digging up systems.

Chase: I really enjoy our vehicle tracker software from Samsara. That has been extremely helpful in keeping up with the status of the trucks, telemetry, keeping track of maintenance. We utilize the GPS gateways with the dual-facing cameras to help with complaints, accidents and harsh events.

Most challenging site I've worked on: **Patrick:** The deep lift stations, the septic systems that are downhill, are the most challenging. To overcome that, we use a booster which injects air into the vacuum line to help lift the waste. And we use an NVE 4310 blower to assist us.

Oops, I wish I could take this one back: **Patrick:** I'm always looking for new technology but one time I got a little over my skis with a new treatment unit. We put numerous ones in the ground before I realized there were problems. I had to go back and make it right with my customers when they started having issues. Another thing to watch out for is buying used equipment from auctions. I've learned my lesson there.

Chase: We tried to take a swing at pumping out a freshwater clarifier

at a municipality that we weren't ready for. We didn't have our blower yet. We were down there in waders with pressure washers in the middle of the summer, trying to get it out. We couldn't quite get the whole job done and had to call in another group to help us.

The craziest question I've been asked by a customer: **Chase:** We get calls from people asking why their system is full if they just had it pumped. We constantly have to educate customers. We have Septic 101 on our website.

If I could change one industry regulation, it would be: **Patrick:** One thing we have been trying to do in TOWA is get a pumper course for basic knowledge, teaching people outside the industry who have pump trucks how to not damage the equipment, not leave risers open where children or pets could fall in. We don't want them to do more damage than good.

Right now there is no legal requirement to attend classes to learn about septic systems. You could damage media, burn out pumps, knock off floats with the vacuum hoses, and cause the homeowner problems.

Chase: Whoever touches a septic system, even to pump it out, needs to be educated on the system. You shouldn't be able to just buy a truck and get into servicing. And it goes beyond just you touching the system. The homeowner is standing over your shoulder asking you questions about how it works, trusting that you know something about it. Sometimes these guys give advice that is off-the-wall crazy stuff.

Best piece of small business advice I've heard: **Patrick:** You have to know your costs before you can quote a price to a customer. And maintenance, maintenance, maintenance on trucks.

Chase: Watch your costs and don't cheat yourself on margin.

If I wasn't working in the wastewater industry, I would: **Patrick:** Both of us have the same answer — real estate development. We were both real estate appraisers at one time.

Crystal ball time — This is my outlook for the wastewater industry: **Patrick:** In Texas, we have diminishing potable and freshwater levels and I'd like to see steps to conserve and reuse. Texas is a big rainwater reuse state. Instead of putting potable water on lawns, we're trying to get people to reuse wastewater or use rainwater. An old oil man once told me, "Water is the next oil in Texas." **P**

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Michigan launches fund for food business onsite work

By David Steinkraus

The Michigan Department of Agriculture and Rural Development has launched a \$30 million fund to help food businesses pay the cost of onsite wastewater treatment systems, several news outlets reported.

The businesses must pay the full cost upfront, but they may be reimbursed for up to 50% of total project costs. Among those are site work, engineering design, installation and materials. Payments are limited depending on daily flows. For example, a project of up to 750 gpd is eligible for a maximum grant of \$225,000. On the top end, a project for more than 20,000 gpd is eligible for the maximum grant of \$2 million.

Money from the new Wastewater Infrastructure Fund is intended to help businesses meet requirements for groundwater discharge permits, says the state website detailing the fund. There is a focus on processing of fruit, vegetables, dairy products, meat, eggs and grain.

Jamie Zmitko-Somers, director of the department's agriculture development division, told *Crain's Grand Rapids Business*, "A lot of these processing facilities are in rural communities, and the disadvantage for them is they do not have municipal waste systems that they can send their waste to where it's treated."

Scott Newman-Bale, CEO of Short's Brewing Co. LLC, told *Crain's* that in 2013 the brewery's wastewater output exceeded the treatment capacity of its home community of Elk Rapids, located on a bay of Lake Michigan. The brewery produces about 4.5 gallons of wastewater for each gallon of finished beer, he said. To solve the problem, he said, the company built its own \$2 million wastewater treatment system, which came online in 2015.

South Carolina

The Charleston Waterkeeper and Coastal Conservation League recently asked a judge to temporarily ban some septic tank permit approvals. The ban would last until the state updates its permit process to allow for rising seas and increasing storms.

Only large-scale housing developments would be affected along with homes within 200 feet of state waters in coastal counties, reported *The Post and Courier* of Charleston. Single-family homeowners replacing septic tanks would not be affected.

Attorney Leslie Lenhardt, representing the two groups, said the state's coastal act of 1977 was passed before scientists fully understood how climate change would impact modern septic systems. She said permitting rules need to be adjusted to account for that.

Around Charleston, sea levels have increased by 10 inches since 1950, and since 2010 levels have increased at a rate of 1 inch every two years.

The judge in the case said she would issue a ruling as soon as possible.

Massachusetts

Two towns are considering options for complying with the state's new onsite rules intended to reduce nitrogen pollution of coastal waters.

Bourne may hire an outside firm to manage onsite system upgrades required by the new rules. Officials may contract with the town's current management firm, or may partner with some or all of the 15 other towns on Cape Cod to hire a management firm to serve all of them, reported *The Enterprise* in Falmouth.

The town is still also considering whether to apply for a state watershed permit. Under the new rules, towns in areas designated nitrogen-sensitive have two years to apply for a permit that provides a 20-year period to implement nitrogen-reducing strategies such as advanced onsite systems or municipal sewer connections. If towns don't apply for the permit and after the two-year application window closes, residents will have five years to upgrade their onsite systems to advanced treatment.

In Wareham, voters may be asked to decide whether to opt for municipal sewer or pursue onsite upgrades, reported *Wareham Week*. Patrick MacDonald, the town's public health director, said the options for complying with the new onsite rules are to extend sewer service to the entire town or accept responsibility for the compliance of every private onsite system affected by a watershed permit. He recommended a shift to municipal sewer.

Oregon

Lincoln County and Oregon State University Extension Service have expanded their onsite replacement program to all low- and middle-income homeowners in Lincoln County. The program provides aid to replace onsite systems damaged by wildfires.



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Eligible homeowners can have their systems replaced at no cost, according to the county's website. Eligibility depends on household size and income. For example, a household of one person must have an income no greater than \$38,640, and a household of eight would qualify with an income of no more than \$133,980.

New York

The village of Speculator, in the Adirondack lake country, passed a time-of-sale ordinance requiring onsite system inspections when properties are transferred. Mayor Jeannette Barrett told the *Adirondack Almanac* that the village has watched similar ordinances pass in nearby communities around Lake George and like those communities there is local concern about the quality of lake water. The new regulations apply to Lake Pleasant, Whitaker Lake and Lewey Lake.

Guam

To protect its aquifer, the Guam Environmental Protection Agency may seek to cut off the water supply of people who violate its onsite rules. This is part of a recommendation to the agency's board for combatting increasing groundwater contamination, reported the *Guam Daily Post*.

Guam law forbids onsite systems on parcels of less than half an acre in the groundwater protection zone on the northern section of the island. But an exception to the rule allows parents to split property and pass it on to

their children, and this has been used to bypass the aquifer protections, the recommendation said.

The second piece of the approach is permitting advanced treatment systems, said Brian Bearden who directs the agency's water division. Current law does not allow this and recognizes only three types of toilets: connected to a sewer system, connected to a septic system, or discharging to a hole in the ground.

Guam is a U.S. territory in the western Pacific Ocean about 2,000 miles north of Australia.

Oregon

A new onsite assistance program from the Central Oregon Intergovernmental Council will provide financial aid for the repair or replacement of onsite systems. Money will provide reimbursements to people at or below moderate income levels in Crook, Deschutes and Jefferson counties, reported KTVZ News in Bend.

Eligibility varies by county and household size. According to the council's website, the income for a two-person household in Crook County cannot exceed \$58,380 while the income for the same size household in Deschutes County is \$73,140.

Virginia

Low-income homeowners in Roanoke County can apply for a free pumpout through the Roanoke Valley-Alleghany Regional Commission. Money from the Virginia Environmental Endowment will cover about 50 pumpouts in the county, reported WDBJ News in Roanoke.

Montana

An environmental group has won a round in its lawsuit to stop a state wastewater permit for a large subdivision. In the latest development, a judge rejected the state's motion to dismiss the case. The issue will now be argued in court on its merits.

Upper Missouri Waterkeeper sued in state court to halt the onsite plan for a 175-acre residential development near the Gallatin River. Last year the state Department of Environmental Quality recognized that section of the river as impaired by algal blooms, reported the *Billings Gazette*.

Upper Missouri Waterkeeper asserts that by allowing individual onsite systems with lower individual discharge volumes, DEQ would create an unscientific exemption from standard permit requirements.

Iowa

Supervisors in Tama County, in central Iowa, voted to decrease the health board's budget after the board made payments totaling about \$13,000 to two homeowners whose onsite systems were improperly approved by the county's former sanitarian.

Carlton Salmons, attorney for the county supervisors, found the payments unlawful for many reasons, reported the *Tama-Toledo News Chronicle*. Supervisors voted to refuse any payments to the homeowners and to transfer \$51,000 from the health department budget into the county's general fund. Supervisor Bill Faircloth said supervisors would find out whether there is a legal way for them to help.

As the supervisors voted, a relative of one of the homeowners said, "We'll see you gentlemen in court." **P**



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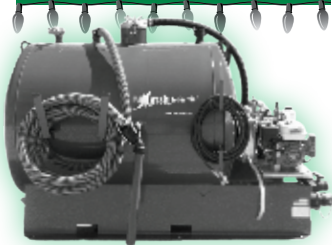
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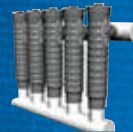
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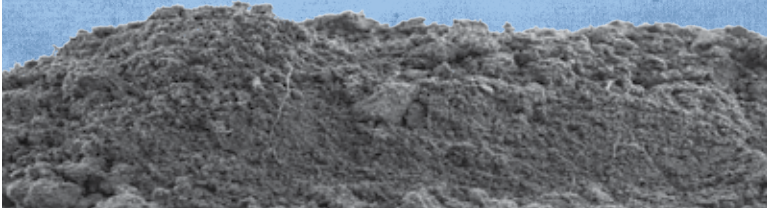
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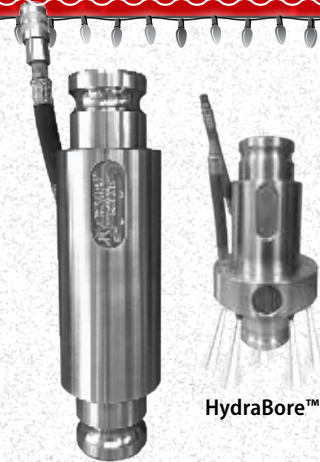
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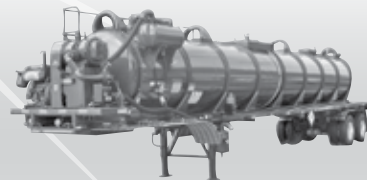
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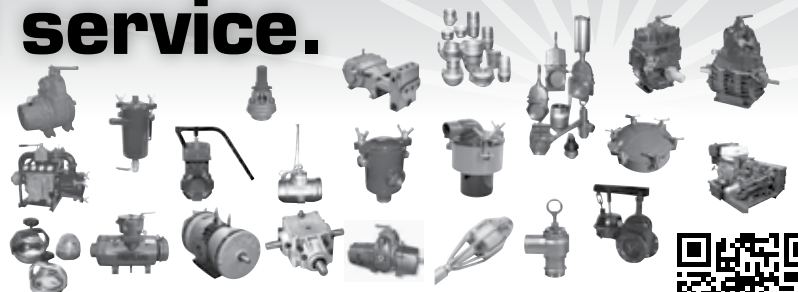
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"The inlet fans move the flow stream onto the bar screens," says Scott Meyer, owner of ScreencO. "The trash then moves to the U-channel separator to dewater and wash."

Within the U-channel is an alloy steel shaftless screw measuring 11 1/2 inches in diameter. After washing, the shaftless screw acts as a conveyor, moving the trash to a trash bin. "The U-channel separator contains hundreds of elliptical drain holes," Meyer says. "And it's lined with a titanium ultra-high molecular weight liner to withstand years of wear and tear."

The shaftless screw is the only moving part in the system, an intentional design in efforts to keep things simple and requiring little maintenance. Front and rear spray bars with 1 gpm nozzles keep the unit clean and free of buildup. The lower cover of the unit also contains two built-in 1 gpm nozzles for cleaner trash. Lever hold-downs allow for easy removal of the covers to access the U-channel and shaftless screw conveyor.

To achieve variable speeds, ScreencO uses a 3 hp Nord gear reduction drive with a Lenze variable frequency drive control, providing users with a range of 6 to 28 rpms. The drive is powered by a 220-volt single phase plug-and-play system.

Trash Master 600 systems are equipped with adjustable height legs and fork skids. Included with each unit is an OSHA-compliant catwalk for maintenance access and viewing. **208-790-8770; www.screencosystems.com P**



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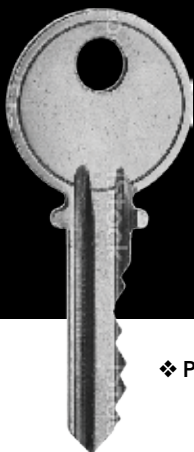
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2024 International CV with a 1500 Gallon tank and a Masport HXL75, can be customized for pumping, grease work, or portable toilets. DuraMax Engine and an Allison transmission. We plan to keep these in stock. **501-388-9565 - Jonathan.Ironvac@gmail.com (P12)**



50 PolyJohn Polylift Hi Rise units. All in perfect, rentable condition with everything working. This unit retails for \$1,440 new. Buy our used ones for \$300. Customer is responsible for shipping or pick-up in New York. **Call 800-634-2085. (P12)**



2005 Freightliner, Mercedes 906LA, 3000 series Allison, AC, cruise, 650 gal stainless steel tank 400/250, Masport vac pump, 20' flatbed with lift gate. Clean good running truck. Finance and delivery available **\$19,500.00 Hull's Truck Bodies LLC 740-820-5338 (P12)**



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

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



2007 HINO 185 Best Enterprises stainless steel pump truck. Tank is 1050 gallons. 700 waste, 350 water. 96 toilet paper roll tool box. Conde SDS series. PTO driven pump. **\$34,000.00, 1-800-634-2085 (P12)**



2016 International 4300 Toilet truck with a Tank size of 2000 gallons = 1500 waste / 500 water with only 150,000 miles. This truck is in excellent A+ shape and has been well maintained. The truck is equipped with everything you need to get the job done, all it needs is a driver. Please feel free to give us a call if you have any questions. **850-944-5536 Lynn Boyett ONLY \$99,000.00 (P12)**

2017 F550 pump truck, 6.7 Diesel Engine, 185,400 miles portablerestroomsmn@yahoo.com \$37,500 Email me for more info. (P12)

2015 ISUZU 196,241 miles, 1500 gallon tank 1100/400, dual side service, Masport HXL4, CAT pressure watch 1200 PSI, DC-10 wash down pump, Hanney reels, work lights, driver suspension seats, two unit carrier. All maintenance records. Pics available. -PORTAJOHN@PORTAJOHN1.COM. 815-877-9770. \$50,000. (P12)

2007 Ford F750: Cat C7 with an automatic transmission and air brakes. 195k miles. 1200 gallon stainless steel tank split 950/250. Pressurized fresh water. 2 unit toilet carrier. 35' suction hose and 10' discharge hose. New brakes shoes, drums, tires, toilet rack and vacuum pump installed 2 months ago. Cab paint is 1yr old. Good running truck very reliable selling to downsize company. Call or text 734-777-0390 for picks and more info. \$45,000.00 OBO. Delivery Available (P12)

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



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

2024 Peterbilt 536 cab & chassis with 2,150-gallon, two compartments (1,600 waste - 550 water) with an NVE B250 blower package, a DC10 washdown pump, dual service, strobe package, toilet carrier and backup camera. Stock# 14095.

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

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Septic Installers and Pumpers needed! ASAP! In sunny Orlando, FL. Experience required (3+ years). Insurable CDL required for Pumper. Relocation reimbursement available. Experienced, professional team to work with, newer equipment. Professionals only. Lapinservices.com Call Chris. 321-436-0150. (P12)

PUMPS

2 NVE 887 pumps with stand and right angle gear box muffler and oil drain 1 juropn58 with pump stand And hydro pto with tank. Call Fabian 720-436-3910 (PBM)

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

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SEPTIC TRUCKS



2007 International 8600, 425HP, 10-speed manual, air ride, 18/40, 297,000 miles in frame done 7500 miles, 4000-gallon tank, 100 gallon fresh w/washdown pump, 90% tires, 85% brakes, NVE 866 vacuum pump package. **\$70,000.00 OBO. TSI Tank Services, Inc. (401) 437-8942 office jerry@tankservicesinc.com www.tankservicesinc.com (PBM)**



Selling this very nice 2016 caterpillar CT660 with a C13 cat and 18 speed, deleted, 4,600 gallon vac tank, very good rubber, steerables, very clean ready to work truck. We lost a contract so no longer need. Can deliver anywhere for the fee, serious buyers only please call 608-897-8000...asking **\$79,900 OBO...lower miles... (P12)**



2023 Freightliner LMT (Iron-Vac) Vacuum Truck. Detroit DD13 Engine 450 HP. Allison Auto Transmission. 3600 gal Capacity. NVE 4310 PD Blower 940 CFM 27 Inch Vacuum, 15 PSI Pressure. Full hydraulic rear door, Hydraulic dump body equipped Body Vibrator. We have to machines available same specs. \$265,000.00 OBO Contact Dave Bruder at Brownequipment Comp. **1-260-433-0893 or Email at dbruder@brownequipment.net for more information. (P12)**



2004 FL70 230 Cat, 232,000 miles, 6 speed manual, 2013 imperial tank and masport pump, 33GVWR, valve heaters, block heater, heated mirrors, always stored in shop, comes with hoses, good working truck, **located in Piedmont, SD. 605-381-6210 (P12)**



1989 F800 Pump Truck with Approx. a little of 100,000 miles. With a 2500 gal. Abernathy welding tank. a remanufactured 7.8L Brazilian diesel motor. Motor runs great. Has a Masport H400W pump. Needs work done on the pump. **Price 22,500 OBO. Contact Tim Porter 804-640-3606 Text ok (P12)**



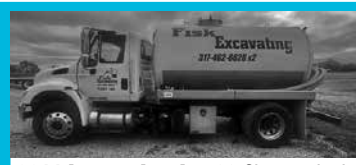
2012 International WorkStar. 197,118 miles. Engine replaced at 169,000 miles in January 2021. NVE 866 Challenger pump. 10-speed manual transmission. 3,500-gal aluminum tank. Truck is work ready. **\$63,000 OBO. Call 706-798-8080. (P12)**



2024 Mack MD6/7 - 6.7L Cummins/Allison 2500, in stock and made for pumping with an air ride suspension, diff locks, 26k or 33k GVWR, chrome package etc... 1800-2500 gallon carbon steel tank with your choice of pump - Call Jonathan @ 501-388-9565 or email Jonathan.Ironvac@gmail.com for new made to order units and stock units of all sizes. (P12)



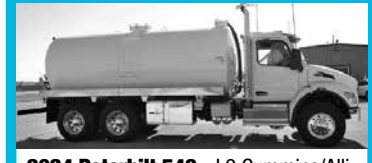
2008 International with a DT 466, engine with an Allison automatic transmission, 4400 gallon aluminum tank definitely an eye catcher, pump works very good. Masport vane pump. Power washer inside of the toolbox with 200 foot of band new hose on reel with 100 gal water holding tank. It was our daily driver until we replaced it with another truck, and I just hate seeing it sitting as not being used as often as it should great truck would be comfortable taking it anywhere. **Asking price 65k OBO clean title. Call or text 316-641-1200 (P12)**



2011 International 4400 Class 7 single axle pumper truck. 275,500 miles. DT466 engine. Truck is complete with 2500 gal steel tank, Jurop PN-58 vacuum pump, aluminum hose trays and tool box. New clutch in 2022. Runs great. 49,900.00 Located in Greenfield, Indiana. **Call 317-498-7592. Terms: cash or wire transfer. Title in hand. (P12)**



Our Most Popular 2024 Mack MD6's Just Hit The Ground! (501-388-0052) 2100 Gallon Steel Tanks Already Built & Available For Install. (Specs Below) (Note: Minimum Deposit Claims The Truck, Financing Options Available!) GVW 26K Allison 2500 300 D Cummins Engine 300HP W/Full Different Locks 5.57 Rear Axle AIR-MACK 19000LB 8618KG Single Axle Power Take Off Transmission Control, Prep Kit F/Single PTO Includes A Jurop R260 Pump (364CFM) Compartmental Air Injection to Mitigate Pressure Drops Continuous Duty at 70% Vacuum Tangential Vanes to Decrease Resistance and Increase Efficiency Max RPM 1300 Phone: 501-388-0052 Email: Ironvac.zach@septictrucks.com (P12)



2024 Peterbilt 548 - L9 Cummins/Allison 3000, in stock and made for pumping with an air-ride suspension, diff locks, 66k GVWR, chrome package etc... 4,200-gallon carbon steel tank with a Jurop DL180 Blower (630 CFM) - **Call Jonathan @ 501-388-9565 or email Jonathan.Ironvac@gmail.com. (P12)**



1990 F800 With 2000 Gallon steel tank with hoist, full open rear door, Battioni pump. Truck has been sitting for about 5 years. Being sold as is. **\$13,500 OBO. Call 979-778-3400. (P12)**



Septic Truck, Tractor Trailer, 4000 Gallon Carbon Steel Tank. 3, Interior Baffles, 2 Intakes, 1, Dump & 3, Man-way's. Tractor from California, No-Rust. Trailer re-built & Refurbished. All in good condition and turnkey. All hoses & tools included. Delivery available. **\$53,000 O.B.O Call for more details & pictures. 978-473-4510 (P12)**



2002 Freightliner, 3126 Cat, 283k, 6spd, 26,000 gvw, under cdl, AC, cruise, 2000 gal Presvac tank and Fruitland 500 vac pump. Very clean rust free truck. Runs and drives great. Finance and delivery available, **\$24,000.00 Hull's Truck Bodies, LLC 740-820-5338 (P12)**

2006 Peterbilt 335 Vacuum Truck. 2,700 gal. aluminum tank with 158,320 miles. 10 speed transmission, 335 H.P. Caterpillar engine and air locker rear-end. Chrome wheels & Air conditioning. Located in Santa Clarita, CA. \$55,000 email: myerspumping@hotmail.com or call 661-713-5195. (P12)

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2011 FORD F-750 - 94,000 miles - One Owner - Cummings diesel - Allison transmission - 2,500 gallon Lely tank - 130' hoses, **706-881-246. \$95,000 OBO (P12)**



1978 Chevy C70 427 4 Barrel 10+2 Stick, Air Brakes, 1800 Gal Tank, Moro pump, always stored inside, good shape for age, mainly used for campground and local septics. \$12,000 OBO. 2007 Sterling Cusco Code 3150 Gal tank with hoist, full rear door, newer RCF 500 Fruitland fan cooled pump, good tires, Mercedes Engine, 10 speed stick, 149,000 Miles. **\$59,000 OBO. Call Brad 815-933-7600. (P12)**



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



2005 Kenworth T800, Only used on nice weather days 120,000km. ISM Cummins, 13 speed trans, 20k front 46k rears, air ride suspension, deluxe interior, pre emission, 3400 imp. gallon galvanized Vacutrax vacuum tank, wallenstein pump, remote operated system, hoist, polished stainless hose trays, must see to appreciate the condition, original owner and only 1 driver ever. Certified \$185,000 USD. In Ontario, Canada. **Call or email for more details (905) 880-4821 or kscoles@bellnet.ca (P12)**



2022 Freightliner M2 87,000 miles cummins engine. Allison automatic transmission. New 2,000 gallon tank, steel. New Masport 350 pump. All new aluminum rims. New tires. Diamond plated hose tray. Diamond plated tool box. Rear led work light truck is still being built. This is an exact replica truck. Can be painted any color you like-included in asking price- **\$97,000. 786-723-9977 EXCLUSIVEQUALITYTRUCKS@GMAIL.COM (P12)**



Selling our very clean 2006 international 4300, remanned DT466 with approx 53k miles, automatic, newer tires, new masport pump in spring, 1600 gallon tank, 1250/350, 3 inch load, 4 inch dump in rear, 2 inch stinger hookup on top. Runs excellent, stored winters, rust free. BELOW CDL !!!, **\$49,900 o.b.o. can deliver anywhere for the fee. Serious buyers only please call 608-558-0870 Thanks... (P12)**

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



Well maintained 2000 Freightliner FL80 WITH A 3126-300 H.P cat, 8LL Eaton fuller, 204k miles, Keith huber Dominator 3000 gallon D.O.T. tank on a hoist with full opening rear hatch, runs excellent and ready to work, \$49,900... serious buyers only please call **608-558-0870. Can deliver anywhere for the fee. (P12)**

2005 Volov Vnl, d12d, 10 spd, 5k tank, jurop pump, see-level gauge, no egr, 425hp, \$30,000.00, 803-403-4105 (P12)

2006 Peterbilt 335 C7 Caterpillar pre-emission, 9 speed Eaton. Mileage-208,000. 2500 gallon steel tank, Jurop PN84 pump. 120' of 3 inch hose. \$60,000. Martin Septic Service Inc, 941-204-7558 cugfey@martinseptic.com (P01)

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



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



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

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



2006 International 8600, 4,000-gallon 2 comp tank, NVE 860 vacuum pump, new tires, brakes, both rear ends, entire suspension, clutch, new ISX 400 hp from Cummins has 100k miles, no leaks, etc... Truck is ready to work. New hoses included. **Nice pre-emissioned truck. \$60,000. 580-207-0980. (P12)**



2007 Mack Truck Model 700CV700 Tank with 198,000 miles. Tank size is 3,500 gallons. Reach seller at 734-358-4325 or richard@homeinspectionn-arbor.com. **Price: \$60,000. (P12)**

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

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



2012 T800 Kenworth, manual transmission, 400HP, NVE 866 pump package, 5,200-gallon aluminum tank. **\$65,000 OBO. 401-437-8942. (PBM)**

2010 International Diesel 7500 series pump truck manual transmission only 5000 miles on complete in frame long block overhaul big tank hoses great pump ready to go to work see 5802 east hwy 62 LUBBOCK TEXAS or call 806-789-9305 asking only \$59,500 call for pics (P12)

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

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

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



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

2002 Sterling Acterra, Cummins engine 7-speed manual transmission, 2,100-gallon tank, Masport pump, mileage around 295,000, one owner - one driver. Asking \$20,000 OBO. Call 410-557-4491 or e-mail bassin411@aol.com. (P02)

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

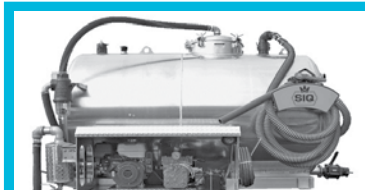
New 4,000 U.S. gallon, aluminum, vacuum tank. Mounted on a 2023 Freightliner M2-106 cab and chassis w/ a NVE Challenger 887 vacuum pressure pump package. Stock# 14056 **(888)VAC-UNIT (822-8648)**
www.vsirentalstlc.com. (PBM)

Pre-owned 1984 Mack R686ST cab and chassis with a 3,000 U.S. gallon, carbon steel, vacuum tank unit. (Stock # 6115C).
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NEW aluminum slide-in tanks. 2 available. 600-gallon (400/200) 450-gallon (300/150). Honda motors, Masport pumps. **Call JR @ 720-436-3910 or Mike @ 720-478-4796, CO (PBM)**



550-gallon steel slide in, 100-gallon poly water tank. Masport HXL-3V vacuum pump w/9-HP Honda engine. 30' of 2" waste hose, 50' garden hose on hose reel. Toico water pump, 3" discharge. 7,000-lb GVWR tandem axle trailer. **\$22,000. Call Jamie 800-558-2945, salesinfo@imperialind.com. (PBM)**

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Used tanks available, lengths are weld to weld. \$3000 Stainless 1750 gallon (split 350/1200/200) 124", \$1000 each 2 Galvanized 1750 gallon (split 350/1000/400) 130", \$5000 Red 3000 gallon 13' hoist & full open rear door, \$3000 White 3800 gallon 18', \$3000 Blue 4500 gallon 17'
Hulls Truck Bodies LLC
740-820-5338 (P12)

Pre-owned 2,500 U.S. gallon, carbon steel, vacuum tank. Stock# 0668V
www.vacuumsalesinc.com
(888)VAC-UNIT (822-8648). (PBM)

Pre-owned 3,600 U.S. gallon, carbon steel, vacuum tank. Stock# 3600V
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1989 Petrosteel 5,500 gallon, carbon steel, Vacuum tank trailer. Stock# 1146C
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2011 Ford F350 extended cab, 4x4, auto, 6.7 power stroke, new aluminum tank, 300 waste, 150 fresh Honda 5.5 aux engine, RV wash down system, Brand new hoses. HXL 2 Masport pump.
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TRUCKS (DUMP, SEPTIC, MISC.)



Selling our 1997 Kenworth T300 dual axle pump truck with 3200 gallon STAINLESS steel tank. CAT 3126 - 300 HP with 253,564 miles and 12,898 idle hours. Eaton 9-speed manual transmission. Juroop R 260 vacuum pump. Recent brakes all around. Sold AS-IS.
Text or call Patrick 269-760-1470 for more information and to come see it. Asking 50,000 OBO.
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Upgrade to our fleet, have 9 trucks would like to turnover to someone in need of used pump trucks. All in good condition, working pumps, running engines. 5 Peterbilts all 2018, 1 2017 Isuzu, 2 2016 Hino's, and 1 1999 Chevy 2500 Work truck. **Call Wendy for info 386-334-2364 (P12)**

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1993 f800 32,000 miles 8.3 Cummin auto 2000 gallon Thompson tank with piston pump model J none certified hazmat tank. **Fabian 720-436-3910 (P12)**



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

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2015 Peterbilt 567 tri-axle (automatic) with a Tornado F3Slope Hydrovac unit with Robuschi RBDV-125 blower Stock# 0461C www.vacuumsalesinc.com **(888)VAC-UNIT (822-8648) (PBM)**

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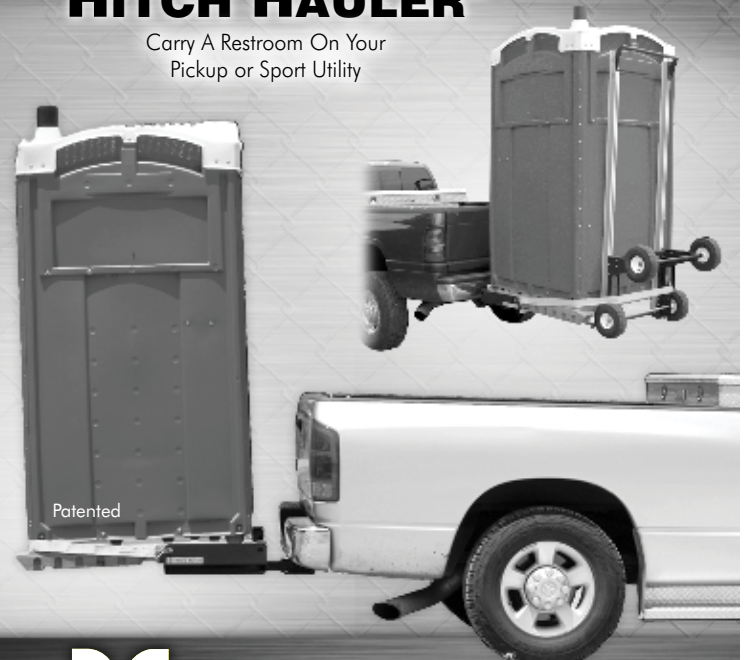


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