



ALL
HYPER GREEN[®]
TECHNOLOGY



A Proven Preventative Maintenance Program Incorporated Into The 150-hr PM Inspection for Safety. Keeps Rats, Pests & Odor Out Of The Trucks, Keeping The Drivers & Their Surroundings Safe



LONG-TERM SURFACE PROTECTION AGAINST RODENTS & PESTS



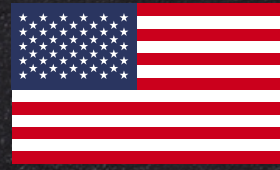
**HYPER-GREEN TECHNOLOGY
THE MOST ADVANCED
PEST OLFACTORY
DETERRENT AND ODOR
ELIMINATOR
EVER!**



- ✓ Water-Based
- ✓ Non-Toxic
- ✓ pH Balance 7.0
- ✓ Eco-Friendly
- ✓ 100% Sustainable

**100% GUARANTEED
WORKS ON CONTACT!
ZERO MORTALITY RATE ON ALL PESTS**

For Immediate Release In Canada and The U.S.



National Preferred Vendor



About Us!

In 2016, Waste Management informed us that our Infinity Shields was an excellent odor eliminator, but it was even better as a surface protectant that stopped rats in their tracks once they sprayed it on and in the trucks. The rats stopped chewing the wires and cables. We were told that after they sprayed the cabs of the trucks, rats were physically leaving the trucks. Infinity Shields also stopped rats from nesting. Maintenance managers and parts managers told us that after they sprayed the cabs, the next morning when the drivers opened the doors of the trucks, the rats would actually jump out! Yep, we laughed too!

To move forward in this industry, we knew we needed to save sites money. We started asking questions: How long does it take to change a harness? How many techs does it take? How much does it cost? How many times can you solder wires before the harnesses don't work? Video cables were simple; just change them. We began to learn about customer service interruptions and lost revenue. Rats were a significant issue with workers' compensation, and the trickle-down effect in savings was substantial. We started to assess if a site had more maintenance techs than the allotted amount allocated, then the site had rat issues. In a short period of time, we were becoming Garbologists!

At our first maintenance seminar in Atlanta in 2017, we had the managers for Republic in tears and laughing on the ground, as we explained Protects! We developed thick skin; we were called Peter Piper and Rat Daddy. Once they saw that we had jokes, the fun began! So we decided to have fun with it.



As we traveled across the US, we visited over 400 hauling sites within three years. What we learned, we shared with other sites. We began to understand that the hauling sites in Solid Waste were the Marines of this industry! We noticed a pattern; every site had trucks at the door with rats chewing wires and cables. Nesting was expected; it was like Russian roulette when a tech opened a panel, removed a headlight, or opened a battery box. Some sites used toxic bait, while others used rat tape from Honda. We were the first non-toxic patented protectant that actually worked! Infinity Shields Protects has no health-bearing kill claims and causes no harm to pests.

You might be thinking, "No harm to the pests?" Sites despise rats, and we get it. But once we understood what it did, it was time for further testing. We spared no expense in these tests, and our Safety Data Sheet is pure gold. We tested with the EPA, Product Safety Labs, and Hydrosphere Research Labs, and even enlisted two third-party scientists for use in California.

All the results remained non-toxic and acceptable. Infinity Shields Protects is hyper-green, eco-friendly, sustainable, and entirely inert with a tested zero mortality rate on all pests. Product Safety Labs informed us that every rodent tested actually gained weight by the end of the test.

We provide a proven safe preventative formula that has been incorporated into the 150-hour PM inspection across the country, which keeps rats, pests, and odors out of the trucks and facilities, ensuring the safety of the drivers and their surroundings.

So, in a nutshell, wires and cables are now eco-friendly and made out of peanut oil and soy, which is like Kobe beef to a rodent. Protects creates an invisible barrier of protection on the treated surface that rats and pests can't smell through. Protects also eliminates the mold molecule, which is how a rodent finds water every day. Once they can't find water, they become dehydrated and can't function, so they want to stay away from the treated areas.

When used as preventative maintenance during every 150-hour inspection, Protects will save your site time and money. It's 100% guaranteed to protect your fleet. The Protects 32oz spray bottle is like a \$12,000 insurance policy against rats, and it's available for only \$19.99 per 150-hour PMI.



ALL
HYPERGREEN®
TECHNOLOGY



(1) One 32oz Bottle At Every 150 PM Inspection Is The Best Insurance \$19.99 Saves you \$12,500.00

BATTLE TESTED
AND PROVEN IN THE SOLID WASTE INDUSTRY
by the Professionals



SUSTAINABILITY

MOST INNOVATIVE PRODUCT
AWARD
2020
Top 5 for Sustainability



**100%
Guaranteed
If You Don't
Use It
You Lose It!**



TESTING FOR SUCCESS



Hydrosphere Research Location: Gainesville, FL

Lab Director Craig Watts EPA Test Method 821-R-02-012, 2002.0 & 2000.0
Test # MSW-0116107 96 Hour Acute Test Static LC50 EPA-CR-02-012
C. dubia P. promelas both >1,000 Pass

2016
July 6th - 13th

Product Safety Labs

Lab Study Director Carolyn Lowe LATG Study # 47786 Acute Oral Toxicity UPD
Rodents P 203. UPD. Test Limits 5,000 mg/kg; Results >5,000 mg/kg. Pass Non-Toxic

2018
March 30th
April 16th

EPA Approved by a Third Party

Infinity Shields® Tested in Reclamation System by Third Party Southern Sanitation
Pompano 1000 Plus Gallons Tested for Chemical Oxygen Demand (COD) & Biochemical
Oxygen Demand (BOD) Deposits; No Phosphates or Nitrates Detected. Pass

2019
May

Industrial Hygiene Resources, LTD

Boise, Idaho, Michael N. Copper MS, MPH, NRRPT, CIH. Certified Industrial Hygienist.
Non-Toxic, Approved For Use in Hauling Stations, Recycling MRF's,
Transfer Stations Landfills, Leachate.

2018
March 3rd

Department of Environmental Protection / Department of Agriculture
Approved for Bio Compost Application

2022

CASE STUDIES



Infinity Shields Protects®

Usage Against Fleet Wiring & Cable Harnesses Chewing Damage From Rodent
Damage 18,000 trucks, 300 Hauling Locations, North America. Customer Service
Interruptions/Asset Down Time/Saving. Conclusion by Vendor 60% Plus Saving
On Annual Electrical Budget.

2015 - 2018
January y
2015

N.O.V. Warning Reversal On Odor Emitting From a Recycling MRF

Issued By The Department of Environmental Protection Growth Management.
18 Months Sun Recycling/HDR Engineering/Infinity Shields.
Published 2016 - Volume 7 - Number 6 Waste Advantage

June
2015

Nasal Ranger Test Results Sun Recycling

HDR Engineering, Sun Recycling,
Infinity Shields 530 Daily Review
Documented. Peer Reviewed Pass.

June
2016

AWARD WINNING

Notice of Violation Warning Compliance

Department of Environmental Protection

December
2016

Best in Show Brand Messaging

Home Depot Annual Partners Conference

2020

Top 5 For Sustainability

Home Depot Annual Partners Conference

2020

Most Innovative Product

Home Depot Annual Partners Conference

2020

Golden Ticket

QVC / HSN

2021



U.S. PATENT NUMBERS

#10,306,884 • #10,791,733





Case Study

Fleet Rodent Damage Wires~ Cables~ Nesting

January 20th, 2015, threw May 25th, 2018

Infinity Shields Protect vs Untreated

Traveled to 325 Hauling Sites Across The United States

Polling Facilities On Rats Damage 18,000 Assets: FEL's ASL. RL. C&G

Savings, Reduction of Downtime and Reduction Of Customer Service Interruptions.

This three year study consisted of a fleet Of 18,000 Assets which was having rodent damage from chewing inside and around the solid waste trucks. The calculation was calculated from speaking first hand to maintenance managers, techs and parts personall. The daily varmint damage equaled 01.1% of this National fleet. Also known as trucks at the door or hits from varmints. A daily average of trucks at the door/hits equaled no 198 hits a day nationally. A hit is equal to a truck not being able to run its route or leave the yard from varmints aka rodents chewing just the wiring. **No Video cables were evaluated because we could not formulate a repair method, unlike wires being able to be repaied by soddered 7 times. Where on the 8th time the wiring harnesses needed to be replaced because of safety to operate the platform.**

Based on the yearly calendar of 312 tech work days for maintenance techs the annual number of rodent/varmint that chew through the wires and leave a truck inoperable and at the door of the facility is 61,776 trucks. 198 a day.

The Maintenance mangers and the parts managers informed us that the cost of a wiring harness in 2018 was averaged between \$50.00 to \$2,800.00 dollars and to use \$800.00 as the average cost. **Wiring Harnesses replacement** It is mandatory to replace a wiring harnesses after seven solder's/fixes from rats chewing of chafing. So we took 61,776 and divided that number by 7 repairs = This fleet was buying 8,825 wiring harnesses, and with the average cost of a wiring harness being \$800.00 each, and Video Cables not figured into this study because they are untraceable. The annual cost of wiring harnesses is \$7,060,000.00. Evaluation of the labor cost of two mechanics working and a driver sitting, at \$75.00 per hour x 2.0 = \$150.00
8825 Hits x 2.0 hours to fix = 17,650 hours x 150.00 Labor = \$2,647,500 annually

Fleet Loss \$9,707,500.00 parts and labor.

Today in 2023 wiring harnesses are costing as much as \$4,500 each and not sourceable because the war in the Ukraine has forces the seven manufacturing facilities there to close. Heil Environmental now manufactures the J-39 harness and it takes 15 weeks to manufacturer after ordered. Todays cost has increased 5 fold.

Hauling sites using Infinity Shields Protects are reporting a 60% saving in the purchase of wiring harnesses and stated its such a large number they added it into electrical annual budget. We have also been informed that one Atlanta hauling site saved 500k in one year in wiring harnesses.



SPECS

The Most Advanced Hyper Green Olfactory Deterrent & Odor Eliminator on The Market Today! 32 oz Spray



SKU: ISP-1

UPC: 8 60006 07839 3

12 x Trigger Sprayers per Case
Case Weight: 24 LBs

Trigger Sprayer Weight: 32 OZ



12 Inches

4 Inches

Stops Rats from Chewing wires and cables and prevents nesting in trucks and facilities, all while eliminating the worst putrid odors on contact!

Use during every 150-hour PM Inspection as preventative maintenance to protect all surfaces.

Prevents rust in dumpsters, compactors, and containers. Drives pests away without harm by creating an invisible barrier of protection on any treated surface. Keeps rats & pests away from your Building, Dumpsters, Trash Chutes, Compactors, or anywhere pests are a problem. EPA Compliant, Zero Mortality Rate on all pests



100% Guaranteed Works keeping Rats, Mice, Raccoons, Bears, Bats, Bees, Bedbugs, Spiders, Roaches, Flies, Gnats, Ants, and More Away for Extended Periods of Time





SPECS

The Most Advanced Hyper Green Dumpster & Compactor Rinse On The Market Today! Works On Contact! Reaches 20 Feet EPA Compliant

SKU: ISPHR-1

UPC: 8 60006 07834 8

4 x Hose Rinse per Case
Case Weight: 16.25 LBs



MOST INNOVATIVE PRODUCT

AWARD

2020

Top 5 for Sustainability



Hose Rinse Weight: 65 OZ Concentrate

Stops Odors & Pests On Contact! Use outdoors on Trucks, dumpsters, compactors, and garbage cans. Drives pests away without harm. Creates an invisible Hyper Green barrier of Long-Lasting protection EPA Compliant Spray reached 20 feet covers 5500 Sq Feet.

BATTLE TESTED

AND PROVEN IN THE SOLID WASTE INDUSTRY

by the Professionals

100% Guaranteed Works keeping Rats, Mice, Raccoons, Bears, Bats, Bees, Bedbugs, Spiders, Roaches, Flies, Gnats, Ants, and More Away for Extended Periods of Time

5 Inches
Hose Rinse Lasts 30 Days Plus





SPECS

The Most Advanced Hyper Green
Olfactory Deterrent & Odor
Eliminator on The Market Today!
128 oz Jug Refill



MOST
INNOVATIVE
PRODUCT

AWARD

2020

Top 5 for Sustainability

SKU: ISPG-1
UPC: 8 60006 07833 1

4 x Gallons
per Case
Case Weight:
32 LBs

Gallon Weight:
8 LBs



PEPPERMINT
SCENT



HYPER GREEN
TECHNOLOGY

Protects

PROVIDES THE MOST ADVANCED INVISIBLE BARRIER
OF PROTECTION ON THE TREATED SURFACE
AGAINST RODENTS AND PESTS

OLFACTORY DETERRENT

ZERO MORTALITY RATE ON PESTS

**BATTLE TESTED AND PROVEN
IN THE SOLID WASTE INDUSTRY**

- Wires
- Trash Cans
- RV Campers
- Cables
- Dumpsters
- Farm Equipment
- Harnesses
- Compactors
- Garbage Trucks
- Fabric
- Automobiles
- Heavy Equipment



NET CONTENTS
1 GAL (128 FL OZ)

WEBCSmart
#Registered

BATTLE TESTED

AND PROVEN IN THE SOLID WASTE INDUSTRY

by the Professionals

*100% Guaranteed
Works keeping Rats, Mice,
Raccoons, Bears, Bats, Bees,
Bedbugs, Spiders, Roaches, Flies,
Gnats, Ants, and More Away for
Extended Periods of Time*



12 Inches

6 Inches



Approved for Leachate • Bio-Compost • Sewage • Sludge • Landfills & More



**APPROVED
FOR DIRECT APPLICATION
TO BIO COMPOST**

**Sewage, Sewers
& Leachate Tanks**

Approved 7/22 per DOA FSS 576 & Fla Admin Code Rule 5E-1



Where... How... When to spray Infinity Shields Protects®



The following slides are information learned from the front-line fleet mechanics that have helped Infinity Shields Protects® progress to its full potential.

We learned where, when, how, and how much to spray.

3 STEPS TO KEEP RATS & PESTS AWAY!

Prevents Rats From Chewing Wires & Cables & Stops Nesting. Drives All Pests Away!

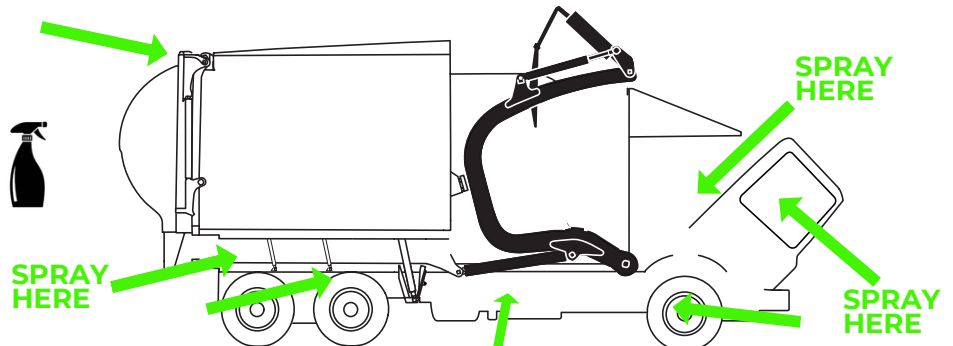


Spray at Every 150-PM Inspection as a Preventive Maintenance Tool

To Keep Your Asset On The Road

FRONT END LOADER

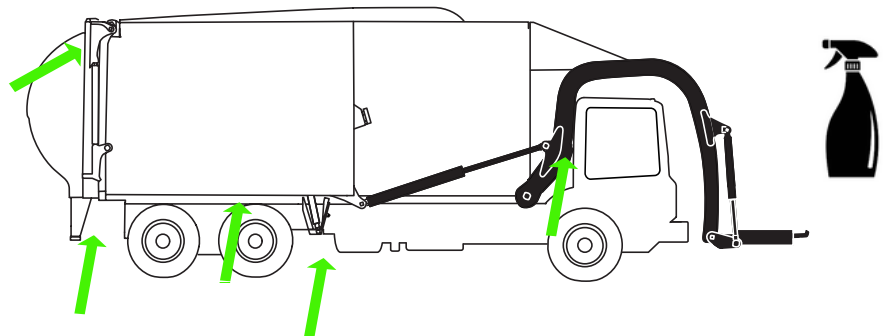
STEP 1
APPLY AT EVERY
PM 150 HR
INSPECTION
Spray all wires!



Soak all areas that have wires, inside fabric, plastic wires, cables, and metal door jams so that no rats get into the truck's cab. It cures in 18 minutes, creating an invisible barrier of protection on the treated surface that won't wash off.

STEP 2
The Truck is Open

Start in front, spray behind the headlights, move toward the driver's side, spray the wheel well, door jams, transmission wiring harness, the back wall of wires, and all connectors. Spray the computer and its wires, as well as all the cables. Open the battery box and soak everything.

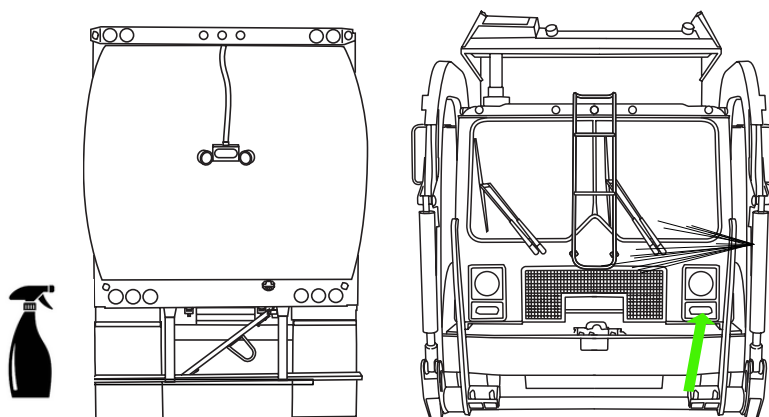


On ASL, spray the arms and all the wires and cables, battery boxes, and computers. On the C&G, remove the circuit board under the dash and mist it. Let it cure for an hour, then reinstall it. It cures in 18 minutes, creating an invisible barrier of protection on the treated surface that won't wash off.

STEP 3

Pop out the lights in the rails to spray wires.

Spray all camera cables, all wires along the inside rails, the clamshell, and get the movable staircase. When you grease the forks, spray the wires on top. Spray all the airlines too.

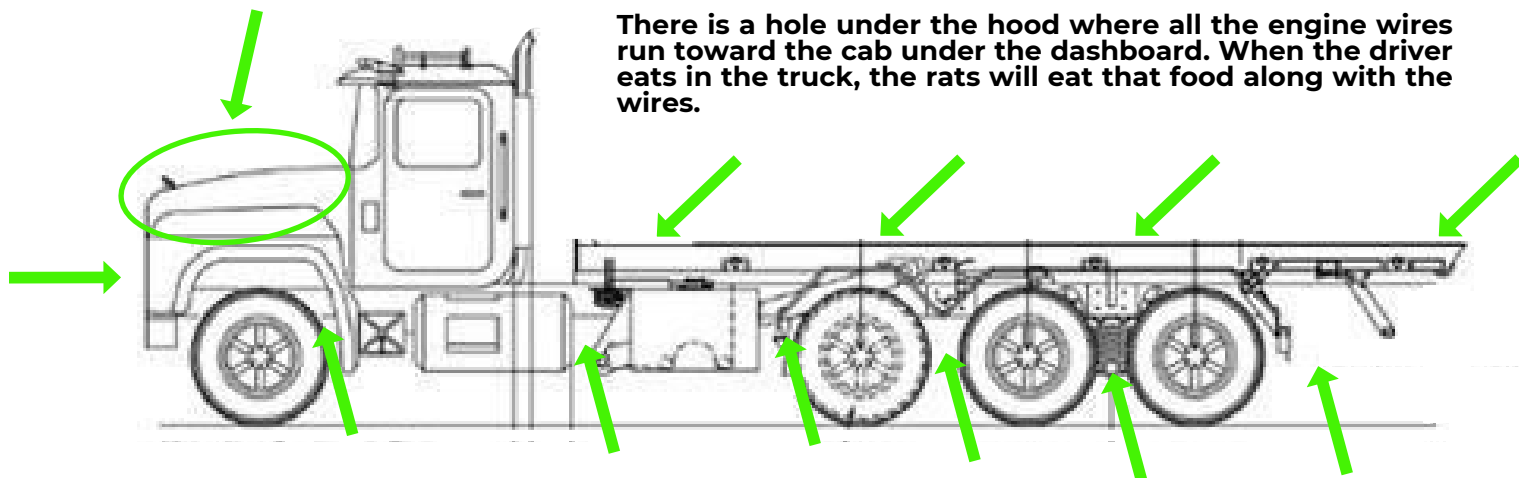


If You Need To Soak Everywhere Do Not Wipe up, let dry

ROLL OFF SPRAY AREAS

- ALLEXPOSEDWIRES
- UNDERALLWHEELWELLS
- AROUNDALLTANKS
- INANDAROUNDTHERAILS

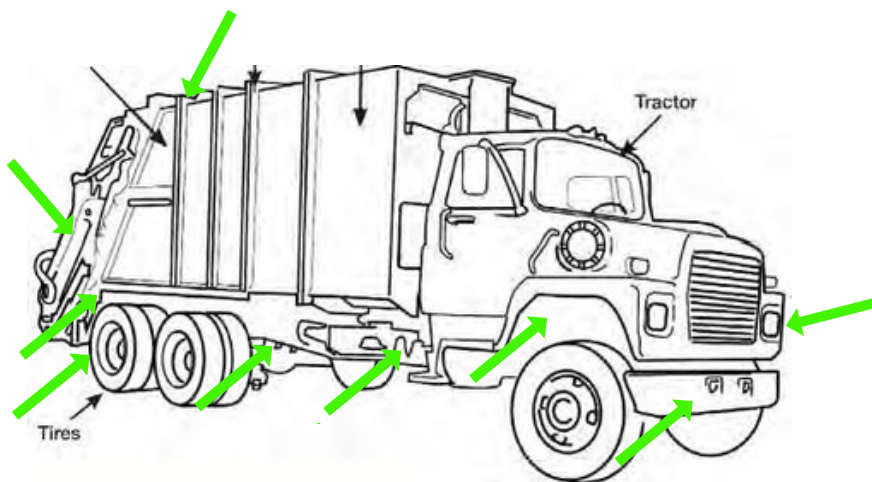
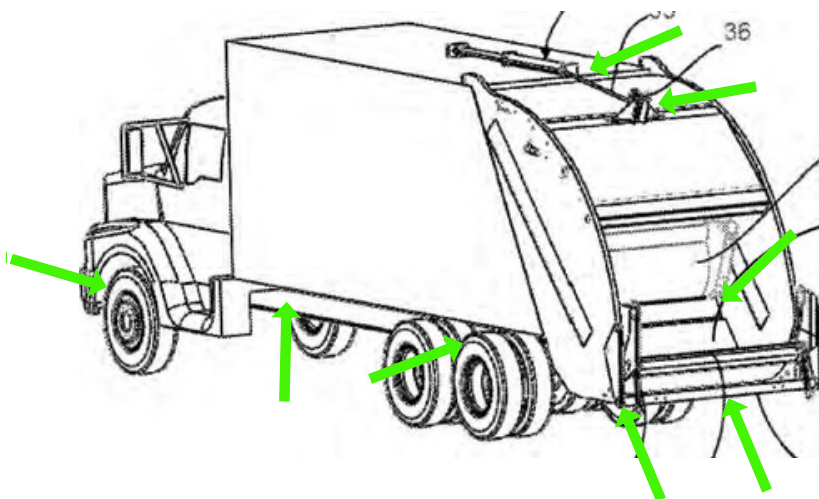
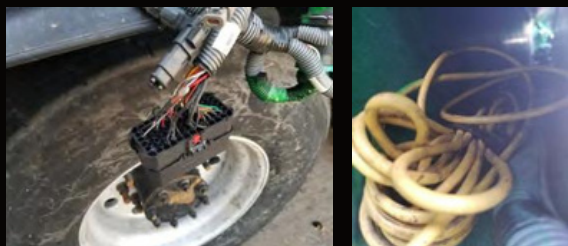
- FRONTGRILLAREA
- UNDER HOOD WIRES PASS THROUGH A HOLE TO CAB. THIS AREA IS A MUST SPRAY, RATS USE THESE WIRES AS A HIGHWAY TO GET INTO TRUCK AND CAB AREAS.



There is a hole under the hood where all the engine wires run toward the cab under the dashboard. When the driver eats in the truck, the rats will eat that food along with the wires.

RESIDENTIAL TRUCK SPRAY AREAS

- ALL EXPOSED WIRES AND VIDEO CABLES
- UNDERALLWHEELWELLS
- INANDAROUNDTHE HOPPER BOTTOM CAMERA AREA
- FRONTGRILLAREA
- INCAB, UNDERDASH
- INTHEHOPPERFORODOR



These next set of spray areas are the areas you told us about. Over the past 5 years, we have learned from over 400 hauling locations where to spray for each brand and style of front-end loader, side loader, rear loader, and roll-offs. If there's a wire, soak it! We have reduced rodent and odor issues to ZERO! We can customize a plan for your facility using Infinity Shields Protects based on your fleet size. We understand that your wash schedule is weekly. Spray at every 150 PM inspection. Sites conducting PM inspections every three weeks should use one 32oz bottle per inspection; if it's infested, use more. It only takes one 32oz spray bottle to cover the cab and all the wires during a PMI. Mechanics have reported that using Infinity Shields Protects during a PM inspection makes the inspection more efficient when checking wires for chaffing and splitting after being sprayed in the previous PMI.

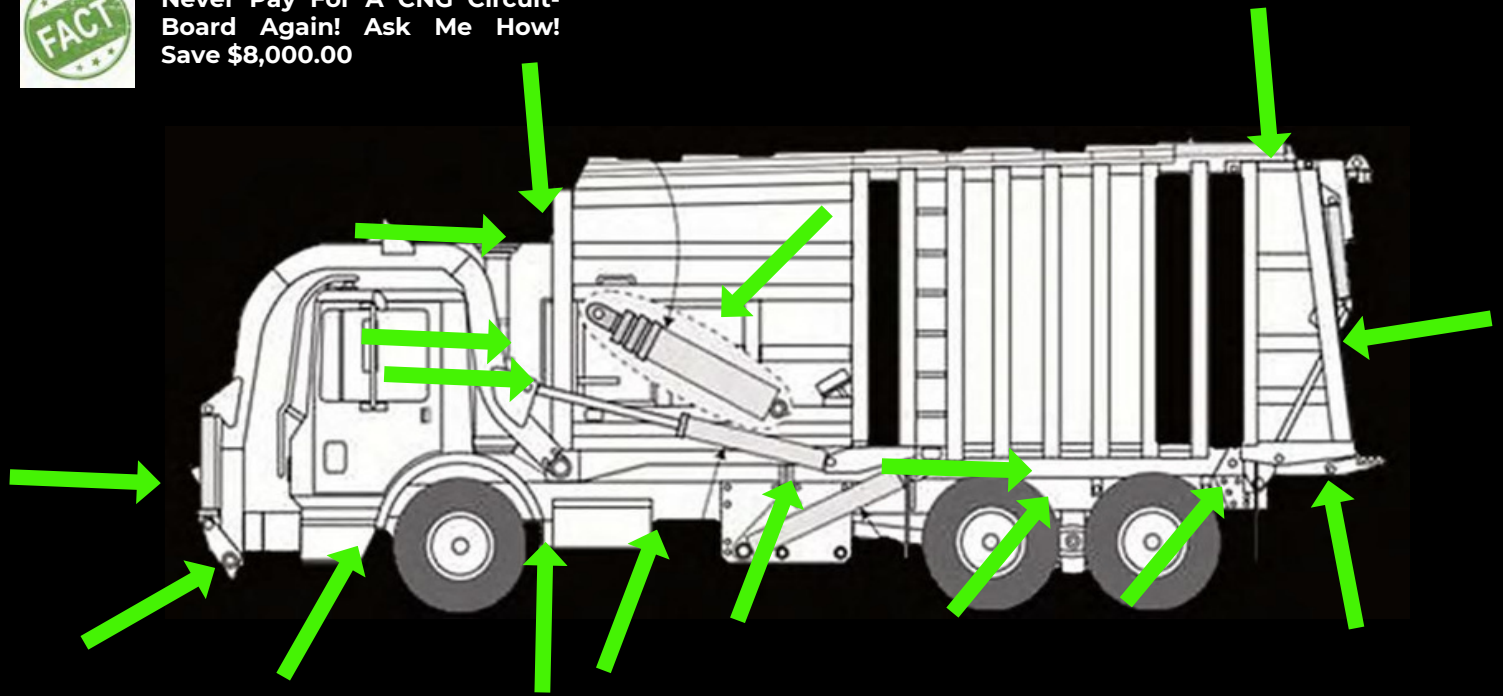
FRONT END LOADER SPRAY AREAS AT THE WASH BAY

NOTE: If Truck has mouthwash tanks mounted on vehicle & Infinity Shields is inside take the nozzle located on the driver door mirror and spray the area around the cab. Save your bottle for the cabs and other hard to reach areas. .

- ALLWIRINGHARNESSES
- OPENBATTERYBOXANDSPRAY
- BEHIND CAB, DRIVERS SIDE, ALL WIRES IN COMPUTER BOX (Every 6 Months) SIDE RAILS WHERE LIGHTS POP INTO SPRAY BEHIND
- CAMERA CABLES OUTLETS
- FRAMEOFTRUCK
- AROUNDALLTIRESTRANSMISSIONHARNESSES • FRONTGRILLWIRES
- INSIDECAB(SPRAYBOTTLEONLY)
- DOORJAMS
- OPEN SIDE BOX DOOR SPRAY BLADE
- CONTROLBOXPASSENGERSIDE.
- ALL CONNECTORS END OF WIRES & CABLES.
- CIRCUITBOARDSUNDERDASH(ONCE)
- BEHINDHEADLIGHTS
- IF FRONT LOADER HAS MOUTH WASH TASK MAKE SURE IT WORKS PROPERLY, BY DRIVER SPRAYING INFINITY IN DUMPSTERS RATS STAY OUT OF TRUCKS! 100% PROVEN!



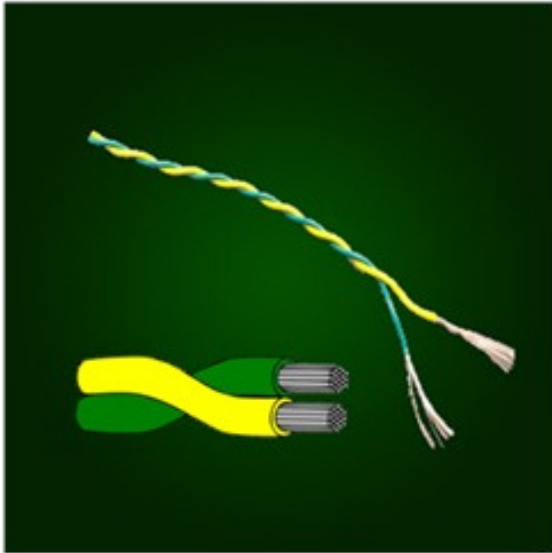
Never Pay For A CNG Circuit-Board Again! Ask Me How! Save \$8,000.00



New Issue Where Rats are chewing the J1939 Wiring Harness

J1939 communication cable wire harness. Its 40 feet long runs from bumper to bumper in the Front-End Loaders and the Rear Loader's Its the green and yellow braded wire. The rats are having a field day chewing the yellow wire. It has a 5-volt constant charge for memory. It takes three days to change it out, it controls the all the major components, ABS,ECM,TCU,VCM, (see below).

Currently only Heil makes it as a special order, and it takes a minimum of 13 weeks to ship. We found out at Waste Expo VEGAS, Ukraine had 17 manufacturing wire plants and since the war they have all been closed.

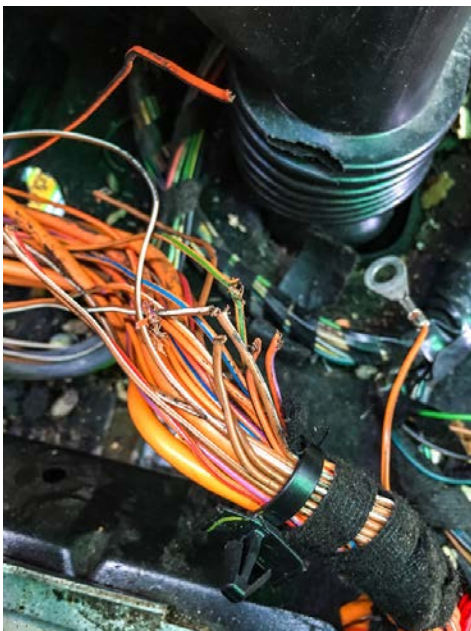


New EPA laws currently in effect only allow wiring harnesses to be made of peanut oil and soy

Vehicle Wiring: conventional multi-wire looms



Recommended, pretreating the wiring harness and have PM tech spray during any inspection



HOW LONG DOES IT LAST?



- Spray a dumpster, prevents rust, No odor for 7 days! Keeps Rats and Pests Out!
- Spray the cab, and it works to the next 150 PM Inspection mechanics doing the PM Inspections use it on the deep wires when the cab is up, wires are not affected by the soap or chemicals applied at the wash.
- Works to the next 150PM inspection. 3 to 4 weeks.
- This is truly a Proactive way to keep your Fleet On The Road

MOST IMPORTANT READ OF THIS PRESENTATION

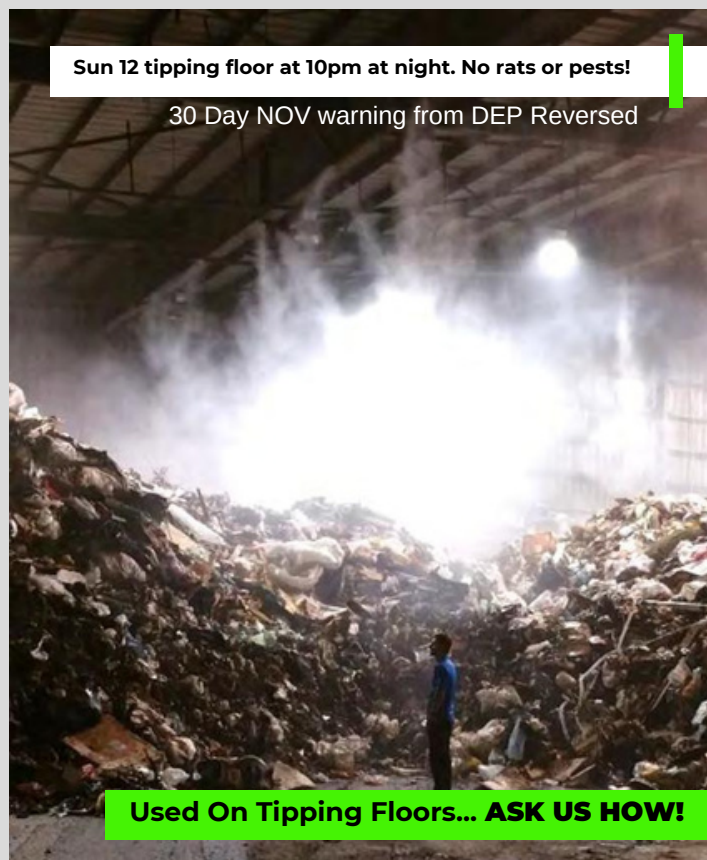
When your facility washes the truck either once or twice a week, Infinity Shields is removed because the caustic chemicals used strip Infinity Shields on the spot! Your truck's wires, harnesses, and cables are vulnerable to rats chewing immediately. It takes 30 seconds to spray a truck in the correct areas at the wash bay while the truck is still wet! Infinity Shields is HYDROPHOBIC and displaces water. If you have an outside service, bilingual signs on how to spray must be posted. The wash crew turnover rate is three days! We currently have sites with 250 assets that have been with us for five years and had as many as 5 hits a day before Infinity Shields®... Now, it's zero!

HOW DOES IT WORK?

The big question at every site was, "Why and how does it work on rodents?" We learned that a rat's sense of smell registers above average, almost at a superpower level. We learned that a rat needs water every day, or it will die, and this water is found in the sensing of the mold molecule. A rat can smell the mold molecule from three miles away and often finds dumpsters and waste trucks as a primary source for it.

Rats also have a second smell organ called the vomeronasal organ, or VNO. The VNO is situated in a thin ovoid space in the lower portion of the nasal passage beside the septum. When rats sniff and taste, scent molecules dissolve and make their way to the VNO receptor. The VNO is primarily used to detect pheromones transmitted between two or more members of the same rat species. These pheromones are present in scat, urine, and glandular secretions of rats and are detected through sniffing or licking. Infinity eliminates these pheromones and the mold molecule on contact. The rodent can't detect other rodents and can't find water. Dehydration sets in, and the rodent flees the area.

We also developed our molecule so that once a pest makes contact, our invisible barrier of protection enables penetration to the protected surface. Last November, tests were completed at the New York Long Island Railroads wheelhouse, and below, you can see a rodent that couldn't find water. Such a large area was treated that the rodents were unable to flee and perished from dehydration. When adults fled the area, offspring blindly looked for food and water, resulting in their capture.



BENEFITS **SPRAY OR FOAM**

By using Infinity Shields Protects® in and around your fleet you will save time & money. 100% guaranteed.

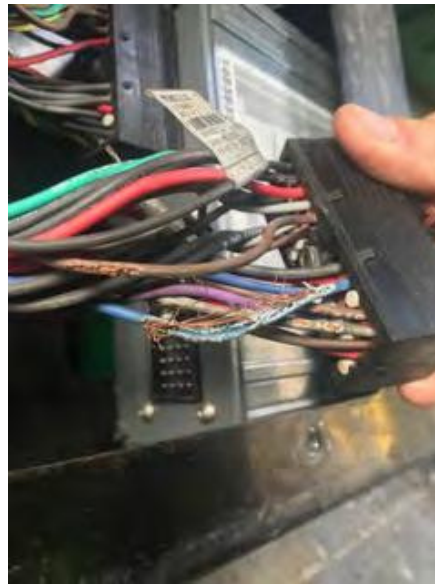
By using Infinity Shields Protects®...
Rödents, mice, flies, bees, and bugs will stay clear.

By using Infinity Shields Protects your site will have a ripple effect saving money on parts, labor, workman's comp, and most of all Safety.

By using Infinity Shields Protects® at the PMA inspection in and around the cabs and anytime the doghouse is open pests stay clear and your asset is protected.

We were informed you can tell if a hauling site has rat issues. Small Truck Facilities with 60 trucks should have 4 techs, Medium Sites 125 Trucks 5-12 Techs, Large Truck Facilities 12-15 techs.

100% Guaranteed



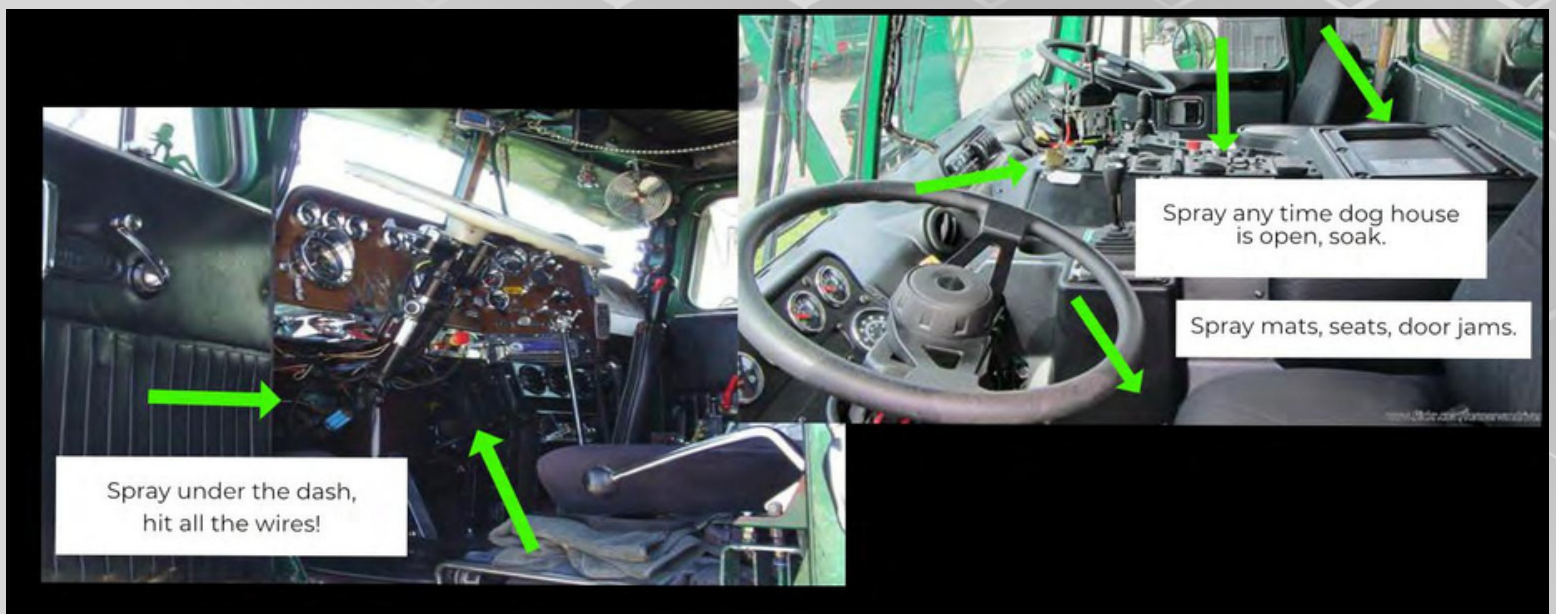


SPRAY INSIDE THE CABS

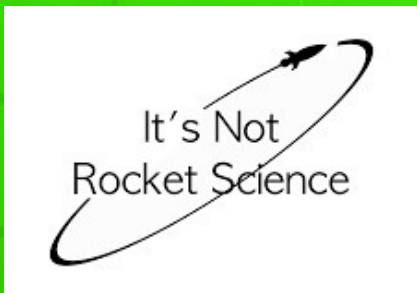
BEHIND HEADLIGHTS AND DIRECT ON C&G CIRCUIT GUARDS

ASK US HOW!

APPROVED FOR USE IN CABS



SAVE TIME & MONEY

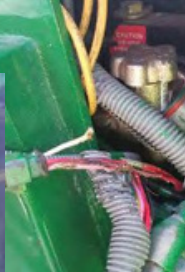


Add one tech at your site because you have rats chewing wires and it will cost your site as much as \$65,000.00 annually for the techs salary and expences.

One truck harness replacement a month costs a hauling site \$12,500.00 per job without truck down time. Annual Cost \$150,000.00.

One Bottle per truck per month cost \$19.99 Annual cost \$239.88

PROTECTED TRUCK



In 2017 Jaime Mosquera
Fleet Area 7 Manager requested a
video to see Protects work!



BEFORE APPLICATION



AFTER APPLICATION

Rats get dehydrated and stop moving
They don't have the drive to keep moving
and they shut down and die, Spray in a
manner to let them find a route out! They
will retreat to the next colony of rats and
fight for dominance killing each other.
Let the rats thin there own heards.

Use around your facility to create a
barrier so rats don't enter.
Safe to spray in drains





News ▶ Collection/Transfer

Odor Control Case Study: Microbe Shield Worldwide Stops Odor Problems in its Tracks

Posted
May 30, 2016

When an MSW facility needed help to manage their odor complaints, Infinity Shields®'s products became the best solution for keeping facility odors under control.

In 2011, an MSW facility in South Florida with a transfer station and end processing station, serving a population totaling approximately 10 million, began to experience some real odor problems. Located in the middle of an industrial, residential and educational part of town, the site shares the neighborhood with offices, a college and its campuses, and houses directly across the street.

Odor Complaints

As the MSW odors became unmanageable, people in the surrounding community began to constantly complain, resulting in the state's Department of Environmental Protection (DEP) issuing the facility a warning letter that they needed to provide a remedy for the situation. "In the beginning, we settled on an odor company after an extensive search and during their 18 months on the site, we continued to receive odor complaints, with multiple visits a month from the DEP, working its way all the way up to a warning letter," says the facility's Compliance Officer.

Working with the facility for all of their environmental permitting, Brenda Clark an Engineer and Environmental Consultant at HDR Engineering, Inc., explains, "I had been doing the design and permitting for the site. They had bought it as an existing facility and they were making some modifications to allow for the waste stream that they wanted to receive at that facility. We received the permits and they started operating. However, the site started getting complaints about the odors, mostly from the neighbors. That's where I came in to help them develop the remedy and then document how they were going to do it." Although the requirement was to keep the odor at the facility's boundary, the main problem was that the trucks that were coming into the facility with the material were contributing to the odor as well as the operations that they were doing inside the building.

Eliminating the Odor

Through word of mouth the MSW facility heard about Infinity Shields®, so in July 2015, the company was called in for a sample spray test. Infinity Shields®, is a turnkey Environmental Company specializing in the manufacturing, distribution and servicing of Hyper Green™ odor elimination products. Scientifically proven in the rapid elimination of malodors.

Infinity Shield's patent pending products are non-toxic, non-corrosive, hypoallergenic and occupationally safe. As an EPA-approved establishment, Infinity Shields is a sole source for their proprietary advanced Hyper Green® odor eliminators.

"Back in 2013, we were actually in healthcare and one of the projects that we took on was eliminating the odor-causing bacteria that was inside the hospitals," says Jim Howard, Infinity Shields®'s CEO.

"We were actually applying our product within operating rooms, ICUs, etc. After we did that, the real test was in the bathroom; there was one that literally had 2,000 people going through it per day because it was right next to the cafeteria. The amount of ammonia as well as the odor that was in there was unbelievable. So, one early morning, we went in to apply the product as well as showing them how it worked; after 6 months there was still no odor in the bathroom." It was through hearing about this that Microbe Shield was contacted about the MSW site's odor problem. Howard came to the facility and walked them through the application process. After testing it out in a leachate system for about a half-hour, there was no smell coming out of the grate where the system was located, so the next test was in a garbage truck. After spraying a front-loader truck between the blades and letting it sit until the next day, the site's Compliance Officer sent his front-end loader division manager to smell the truck. "He didn't smell anything, so Infinity Shields® sprayed another truck that had just come in and smelled really bad; it had flies in the back of the truck, etc. In a couple of hours we went back and there were no flies, no smell, no odor, so we said let's try it inside the building. I made arrangements for them to come in one week on a trial basis," says the Compliance Officer.

On a Monday, Infinity Shields® set up the system, which the facility ran each night for five hours in order to combat the smell when the doors were opened at 5:30 a.m. After about the third day into the trial, there was still no odor from the MSW and no complaints. However, management decided to try another vendor, but it didn't take long for the odors to come back along with the complaints. As a result, Infinity Shields® was brought back in so the facility could try out the product substantially. "They said we'll give you a 30-day shot, so we went in and started right away," said Howard. "As time progressed, the DEP came in and evaluated the odor system we were using, looked at the formula and the Safety Data Sheets. They really liked what we had done, so we started an odor monitoring program with them," says Howard. As a result, not only did the odors disappear quickly but Infinity Shields® was also brought on full-time in July and by August, the facility had no complaints from the DEP. Once the MSW facility selected Infinity Shields®, Clark worked with them to make sure that they were applying it in a way that they could maximize the benefits from the product. Explains Clark, "We worked closely together with both companies to develop a mechanism for spraying the area outside of the facility and where they could run the system to best prevent odors. We also evaluated this on the truck odor and the operations inside the building. It really was a very comprehensive plan that we enacted and the regulators were great. They really worked with you to find a solution and not just be a hammer."

Odor Control Program

Currently, the MSW site has the misting system set up in their transfer building, spraying the Infinity 530 Odor Eliminator all day long, while the Infinity 555 product (the strongest) is used two to three hours in the middle of the night. They also use the Infinity 530 Plus every day in their front loader trucks—tanks are on the vehicles with hoses attached to them so that they can spray down the cans when they are dropped off at the customer. The Compliance Offer says that they are especially used inside the compactor chutes "Those cans smell, so that travels up the compactor and when someone opens it up on the floor, the smell comes out and lingers. Even our clients are enjoying the product because it's knocking out the odors."

Depending on the setting of the system, product refills inside the facility are between 32 to 45 days—the perimeter system is exchanged out once per month, while the interior system is changed out every 37 days and the high-grade interior system is changed out every 45 days.

Infinity Shields® also checks in on a daily basis. With routes set up now throughout South Florida, Infinity Shields® performs not only "odor runs", but they also help facilities establish a neighbor-to-neighbor program. "A lot of times it is tough to go out into the communities because of the odor issue, so we'll go out with them and tell about what we're doing and about the product and how it works and if there are any problems, let us know. If there is a problem, we are there visiting. Ninety percent of the time it is a truck, so we'll get in there and find out it is a bad load; we put the product in the sweeper and facility. The product does reactivate when it rains and we have more than 150 trailing scents that we can use, but for the most part they are odorless," says Howard.

Still Going Strong

Going forward, the company who owns the MSW site are now using Infinity Shields®'s product in front loader trucks with a mount wash system where they are able to spray the containers. After demoing it at another location, they loved it because they had a couple of route stops where fish smells were prominent. After spraying the containers with Infinity Shields®'s product, the smell has gone away and it is working well there. Says the Compliance officer, "Infinity Shields®'s products work fantastic on the MSW site and the front end loaders-the product stands by itself. it does what it's supposed to.

Says Howard, "This was our first venture into the waste industry; now we've got seven different companies in multiple locations in Florida and we are planning to go national. This has snowballed for us and the word of mouth alone has brought us to the next level. It is exciting to watch it grow in this area of our business; we see how important it is. It's working well, we're starting to branch out and grow and we are having fun with it." | **WA**



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