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Stormwater regulations tighten for recyclers

by MIKE BRESLIN

mbreslin@americanrecycler.com

Rarely has there been a more vexing subject as stormwater runoff regulations as they apply to the recyclers of scrap metals and automobiles. Researching federal, state and local regulations is a tedious task, often resulting in more confusion than enlightenment. Many scrap metal recyclers are also bewildered and concerned about the growing complexity of government regulations, potential violations and attending penalties.

Even though federally adopted stormwater regulations are part of a national program required under the Clean Water Act, implementation can differ from state to state.

New Jersey's Department of Environmental Protection (NJDEP) is in the process of implementing new stormwater regulations. The ongoing imposition of these regulations on the metal and automobile recycling industry can represent new regulatory and administrative burdens, and more out-of-pocket costs on owners of scrap metal and vehicle recycling operations that must be addressed and cannot be ignored.

Scrap metal and automotive recyclers handle a wide and complex variety of hazardous substances that could potentially trickle down from stormwater runoff and contaminate drinking water or pollute rivers, lakes and oceans.

But since cars and trucks are the number one recycled product in the U.S., the exposure for the scrap metal dealer and automotive recycler is substantial. About 8 million cars and 5 million trucks are recycled every year by over 7,000 auto recycling companies nationwide.

One of the primary threats to the environment is polluted stormwater runoff resulting from the mishandling of metals and vehicular fluids such as gasoline, diesel fuel, motor oil, transmission fluid, power steering fluid, brake fluid, mineral spirits, washer fluid, gear oil and grease. In addition, there are other hazardous wastes in vehicles that could contaminate water like mercury from electrical devices, batteries, refrigerants, asbestos and PCBs.



Stormwater runoff from metal is a major contributor to groundwater pollution. New Jersey's new regulations will require quarterly testing of these waters.

PHOTO COURTESY OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

Automotive recyclers are mostly small businesses and often have environmental compliance problems that fall within EPA's authority under the Clean Air and Clean Water Acts. These regulations are administered primarily by state environmental protection agencies and local authorities.

The Federal Clean Water Act does not directly address groundwater contamination, but groundwater protection provisions are included in the Safe Drinking Water Act, Resource Conservation and Recovery Act, and the Superfund Act. Remember, automotive and metal recycling went on for nearly 100 years before the Clean Water Act in 1972 and groundwater regulations at federal, state and local levels took decades to evolve as specific requirements, becoming increasingly complex, requiring permits, and subject to enforcement and fines.

It all starts with the U.S. EPA's National Pollution Discharge Elimination System (NPDES) because polluted stormwater runoff is commonly transported through municipal stormwater sewer systems or, discharged untreated directly into local bodies of water. To prevent harmful pollutants from being washed or dumped into local waters, municipalities and regulated industries must obtain a NPDES permit and develop a

stormwater management program to reduce contamination and prohibit illicit discharges.

NJDEP is the delegated issuing authority for NPDES permits in the state. A New Jersey Pollutant Discharge Elimination System (NJPDES) discharge permit is required for defined industrial activities and for municipal separate storm sewer systems (MS4) owned and operated by municipalities. A NJPDES permit may also be required for any point or non-point source discharge if NJDEP determines that it contributes to a violation of water quality standards or is identified as a significant contributor of pollutants.

There are approximately 7,500 NPDES MS4 permits in the U.S. covering large, medium, and small cities. Five hundred and sixty-six of them are in New Jersey. Then, of course, there are salvage businesses within cities and towns that have municipal stormwater systems, but are not served by them. And, there is the vast area of America not serviced by any stormwater sewer systems at all, but may be covered by regulations enforced by state and local jurisdictions.

Federal regulation requires a permit for all scrap recycling facilities. EPA issues its Multisector (MSGP) permit to regulated industries in non-delegated states.

NJDEP issues industry specific general permits, individual permits, and a basic industrial general permit to its regulated industries. For the automotive and metal scrap recycling industry, New Jersey issues its Automobile Recycling General Permit (RVR) and the Scrap Metal Recycling General Permit (SM2), respectively. Individual permits are issued for metal recyclers that engage in shredding operations

According to Julia Q. Ortiz, a press officer at U.S. EPA, "EPA's MSGP contains requirements relating to controlling pollutants in stormwater discharges that all facilities must comply with. These include: minimizing exposure of industrial activities to stormwater; good housekeeping; conducting regular maintenance of stormwater controls and equipment; having spill prevention and response procedures; erosion and sediment controls; runoff management; salt storage piles pollutant minimization; employee training, waste elimination of non-stormwater discharges and dust generation, and vehicle tracking. In addition, inspections and assessments must also be regularly done. Stormwater pollution prevention plans must

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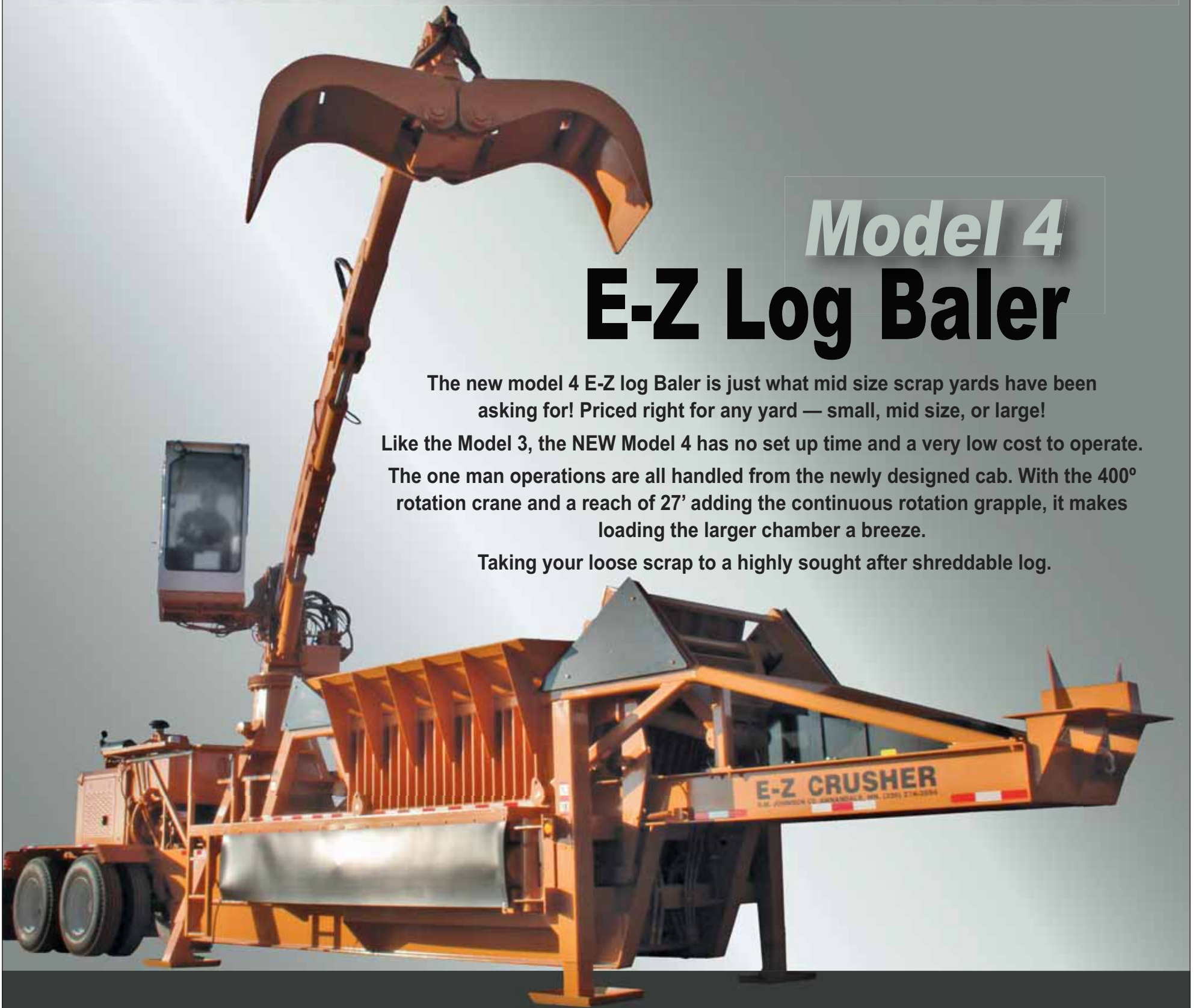
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California school wins national competition

Keep America Beautiful recognized Foothill Elementary School in Pittsburg, California, in an all-school awards ceremony celebrating its championship in Recycle-Bowl, a nationwide recycling competition for elementary, middle and high school students.

The Recycle-Bowl competition, sponsored by Nestlé Pure Life Purified Water, reached nearly 700,000 students across America with schools in all 50 states and the District of Columbia competing. Collecting 157 pounds of material per child for recycling, Foothill Elementary School students recycled the most among more than 1,500 school competitors.

Keep America Beautiful presented a \$2,500 check to Foothill Principal Enrique Pin. In addition, the school will receive a \$1,500 credit to purchase recycling bins from Busch Systems and a park bench made from recycled plastic from Trex.

From October 15 through November 15, 2013, participating schools recycled as much as possible. The total amount of recyclables recovered during the 2013 competition added up to 6.4 million pounds.

A full list of statewide winners and updates for next year's competition can be found at Recycle-Bowl.org.

Innovative recycling program launched for hotel toiletries

Turning Stone Resort Casino has a new approach to dispose of the hotel's hundreds of thousands of leftover hygiene products each year. Though a new partnership with the non-profit Clean the World Foundation, Inc., Turning Stone is recycling the resort's used soaps and shampoos to help reduce unnecessary waste and prevent disease throughout the world.

Hygiene products from the resort will be sanitarily recycled and used for emergency relief efforts and other causes. They will be distributed to partnering nonprofit organizations for delivery to developing countries and homeless shelters.

Turning Stone's efforts will literally help save lives. Studies show that hand washing with soap can effectively reduce the instances of diarrheal disease and acute respiratory infection, the leading global causes of death for children under five.

Since its inception in 2009, Clean the World has distributed more than 340 tons of soap, shampoo and other amenities to dozens of countries in need



Clean the World's Las Vegas Recycling Operation Center acts as a collecting point for gently used hotel amenities from all over the western region of the United States.

PHOTO COURTESY OF CLEAN THE WORLD

worldwide. Turning Stone will add to those totals by contributing all excess of the resort's more than 300,000 soap bars and 440,000 bottled hygiene products used annually.

By partnering with Clean the World, Turning Stone is also helping to reduce the landfill waste generated by its resort

hotel. In the past 5 years alone, Clean the World and its partners have diverted more than 1,000 tons from clogging landfills.

For additional information, view this article on www.AmericanRecycler.com.

Entenmann teams up with TerraCycle for recycling

Entenmann's Bakery has partnered with TerraCycle to launch the first-ever Little Bites "Recycle...Reuse...Replenish" Fully Recyclable Lunch Earth Day awareness campaign and sweepstakes.

The Little Bites campaign is aimed to educate consumers on how to recycle Little Bites Pouches and turn trash into cash

for schools through the point redemption process, complete with a Sweepstakes activation on Facebook for a chance to win an assortment of prizes, including a grand prize of \$5,000 cash.

Entenmann's will be rewarding winners with an assortment of weekly prizes including Little Bites coupons, upcycled

Little Bites-branded Lunch Sacks made by TerraCycle, \$25 Home Depot Gift cards to start an Earth Day garden and a \$5,000 cash grand prize through a sweepstakes link on the Entenmann's Facebook page. All entries must be received by 11:59: p.m. ET April 30, 2014. Official rules can be found at www.entenmanns.com.

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Stormwater

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be revised when necessary and compliance with all requirements must be documented."

Under the Federal Water Pollution Control Act, amended by the Clean Water Act and the Water Quality Act, a facility with stormwater discharge associated with industrial activity must obtain a National Pollutant Discharge Elimination System permit. In 1990, the U.S. EPA published the regulatory definition for "stormwater discharges associated with industrial activity," which were adopted in the NJPDEP regulations.

New Jersey's Department of Environmental Protection is issuing authority for NPDES permits in the state. A discharge permit may be required if NJDEP determines a point or non-point source discharge contributes to a violation of water quality standards or is identified as a significant contributor of pollutants.

First issued in 1995 and updated subsequently, the New Jersey Scrap Metal general permit was initially issued and authorized the discharge of stormwater to surface water for facilities that engage in Standard Industrial Classification, SIC Code 5015 for used motor vehicle parts and SIC Code 5093 for scrap and waste materials.

Permit effluent limitations, monitoring requirements, Best Management Practices (BMPs) and other conditions are federally authorized and implemented, administered, and enforced by NJDEP through its NPDES permit program.

James Murphy, chief of the NJDEP bureau of non-point pollution control explained the state's new Stormwater Management (SM2) regulations that took effect October 1, 2013. "Our new scrap metal per-

mit, SM2, covers scrap facilities that engage in scrap metal recycling with or without vehicle recycling, but the DEP does have a separate vehicle recycling permit for those sites that engage only in vehicle recycling. We also have five or six facilities out there that handle scrap metal, plus shredding. Those facilities will get separate individual permits in the near future. The SM2 permit requires an initial stormwater drainage control plan which has to be submitted by October 1, 2014 and a final drainage control plan that must be submitted by October 1, 2015.

Under the permit there are water sampling requirements. Our enforcement field offices may conduct monitoring as part of their inspections, but the permit will require quarterly monitoring of the effluent by the permittee. The results of that monitoring must be put on Discharge Monitoring Reports, or DMRs, that must be submitted quarterly and are reviewed by NJDEP Enforcement as part of the permit compliance assessment."

"We have been working with the industry group trying to come up with a permit that the industry is satisfied with. So there's been a lot of negotiation, giving them an opportunity to make changes to this new version of the permit," Murphy concluded.

Brian McLendon, supervisor of the industrial stormwater discharge permit unit at NJDEP elaborated on the new regulations. "Scrap metal dealers will have to identify and account for all of their stormwater runoff, meaning it has to be discharged to a regulated discharge point or points. There is a specific Stormwater Pollution Prevention Plan (SPPP) that has to be implemented throughout the yard at different areas such as material handling and storage, and so on. And, these areas have to be monitored to benchmark criteria.

"It has to be monitored whether or not it's going to be discharged to groundwater or into a municipal stormwater system. If they are parking unprocessed vehicles that have been drained of fluids on crushed stone that may be okay, but if they are crushing cars they would have to do that on a pad. In New Jersey, as compared to other states, we do regulate the discharge to groundwater as well as surface water. The federal program is limited to surface water, only. In New Jersey, we have a robust groundwater program and we want to assure that discharges are not being shifted from surface water to groundwater."

An environmental engineer at NJDEP, Shashi Nayak, outlined some of the technical requirements for SM2 permits. "For the initial drainage control map, an owner can prepare it themselves using our guidelines or call on an engineer, but for the final drainage control map they have to have it certified by a licensed professional engineer. The quarterly stormwater testing will begin on October 1, 2015. On a quarterly basis, the owner of the facility has to collect stormwater samples and send them to a New Jersey designated state-certified laboratory for testing. It's paid for by the owner. We're looking at a couple hundred dollars, quarterly, to get each test done. In addition, PCBs must be tested annually."

Water test results will reveal chemical oxygen demand, total petroleum hydrocarbons, and total recoverable aluminum, lead, zinc and iron. Currently, the annual fee for general scrap permit is \$2,300. An individual permit for a shredder is \$4,100 annually. Under New Jersey's Water Pollution Control Act, the range of civil administrative penalties can range from \$2,500 for minor violations up to \$40,000 for major offenses.

John Kitchens, vice president of Iron Ax, said no other system comes close to his company's Enviro Rack, an advanced auto fluid removal and dismantling system, in meeting EPA and state regulations concerning fluid removal and preventing fluids from entering stormwater.

"Over the years we have dealt with a lot of different people that were having

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April 15th-16th

NERC Spring Workshop: Urban & Rural Organics Management Programs. Harraseeket Inn, Freeport, Maine.
www.nerc.org

April 29th-May 1st

WasteExpo. Georgia World Congress Center, Atlanta, Georgia.
800-927-5007 • www.wasteexpo.com

May 4th-7th

The Federation of New York Solid Waste & Recycling Conference with Trade Show. The Sagamore, Lake George, New York.
518-541-2548 • www.nyfederation.org

May 5th-8th

AISTech 2014, The Iron & Steel Technology Conference and Exposition. Indiana Convention Center, Indianapolis, Indiana.
724-814-3068 • www.aist.org

May 6th-8th

12th Annual CARE Conference. Seattle Renaissance, Seattle, Washington.
706-428-2127 • www.carpetrecovery.org

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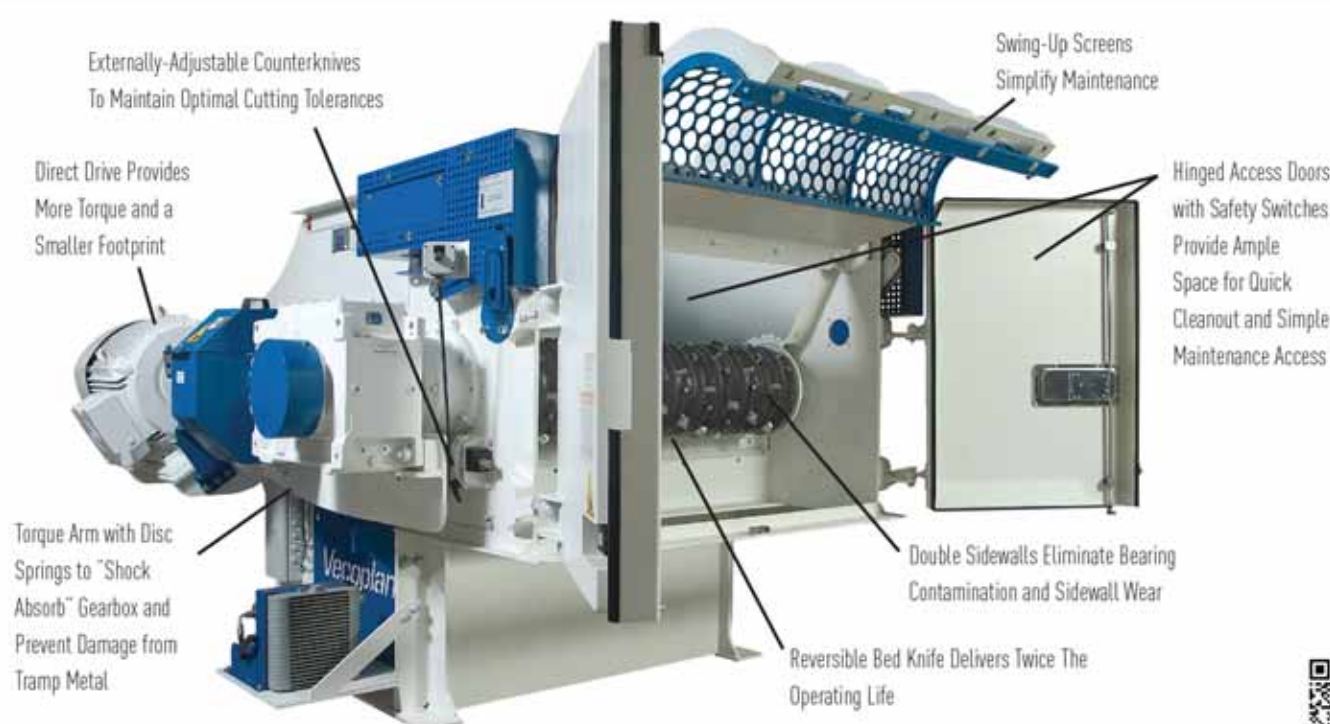


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Recycling steady, waste stream lighter

The National Waste & Recycling Association offered insight into the Environmental Protection Agency (EPA) report on municipal waste generation and recycling rates, noting that the latest statistics, based on 2012 data, show a continual decline in per capita waste generation and an evolving waste stream that continues the trends of less printed paper and lighter-weight packaging.

The EPA report, "Municipal Solid Waste Generation, Recycling and Disposal in the United States," was released in late February.

"EPA's statistics show that Americans are disposing of less waste – about 4.38 pounds of waste per person per day – continuing a decline that began in 2000," said Sharon H. Kneiss, president and CEO of Waste & Recycling, which represents private sector companies across all 50 states that collect, manage, dispose and recycle waste.

Kneiss added that while waste recovery rates dipped slightly to 260,000 tons, these statistics do not necessarily mean that Americans are recycling less.

"Part of the dip in recycling can be attributed to our evolving waste stream," Kneiss said. "We're generating less printed material – newspapers, office paper or magazines – as we shift to a digital world."

"Meanwhile, packaging recycling has continued to climb – more than half of all packaging is now recycled – and this packaging is getting lighter and greener as manufacturers seek to minimize their environmental footprint," she said. "But the bottom line is that the public can help increase the recycling rate by getting the right materials in the bin in the first place. It begins with the bin."

For a list of notable findings in the report, view this article on www.AmericanRecycler.com.

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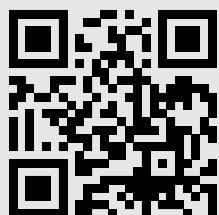
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Stormwater

■Continued from Page 4

problems with local, state or EPA officials. From my experience most owners want to be compliant with laws concerning ground-water contamination but for a variety of reasons a lot of them aren't. I think most owners have good intentions when it comes to keeping oil and gas off of the ground," said Kitchens.

"A lot of owners I have spoken with think the laws are unreasonable and local laws seem to vary a lot from one municipality to another. Compliance with local, state and EPA regulations is a must if you are going to stay in business, but I think for many owners it is out of sight out of mind, meaning that they are not overly concerned about it until they get inspected."

Kitchens reported that some yards get inspected very often and some almost never get inspected. He has spoken with many owners that have never been inspected, but it seems that if a yard is inspected and violations are found they can be assured of future inspections. A good initial inspection will greatly reduce the chances of having more frequent inspections. Most inspectors like to move on to other yards that are having problems.

"I don't have specific numbers concerning fines, but I have had customers tell me that they have been significant,"

Kitchens continued. "Not only do they have to deal with the EPA concerning the fine, but they have to pay for the cleanup. A lot of times they can negotiate with the EPA concerning the amount of the fine, but they are not usually in a position to make a good deal with the company hired to do the cleanup. In most cases the soil will have to be removed and tested until no contaminants are found. This can be very costly and unnerving, and it is all preventable. Purchasing a professionally produced fluid removal system is the best investment an owner can make. He is keeping his property clean, and he will keep the inspectors happy."

Frank Lobascio, managing partner at Armor Metals & Recycling in Pennsauken, New Jersey, voiced his experience with NJDEP regarding his 6.5 acre facility that employs 16 workers. "We didn't have to get the original stormwater permit because when we purchased the business that had already been done. Some of our stormwater runs into the Pennsauken municipal system, but not our metal handling area which is mostly number-one prepared and unprepared plate and structural light iron. All other metals are brought indoors. Our outdoor metal handling area was specially designed as a self-sustaining stormwater system. It's paved with crushed stone in the ground to absorb stormwater."

"NJDEP is coming again this spring for an inspection of our stormwater runoff," Lobascio continued. "They are very tough on that. As we've gone along we've made sure to keep up with what needs to be done. NJDEP has already done one inspection, but it was inconclusive because we are in the process of changing property ownership. Because of a change of ownership we've already gone through Phase 1 and 2 permitting. All they found on different parts of our property was arsenic from years ago because this was all farmland and arsenic was contained in pesticides. They've found arsenic on all the properties around here."

"You know how the government is. You never know when they are going to wake up with a new idea. Anybody who sets up a business in this state is insane. I'm talking about any kind of business. I rent out properties for all different kinds of business. It's getting to the point where, who wants to go through this? Then, there are the fines that you can incur. Every day you are afraid to open up an envelope from the government. You are trying to do the right thing but they are making so many different laws in so many different directions, you can't keep up. I'm afraid to even think about the potential size of fines if they do find something."

There's no question that more complex and demanding stormwater regulations mean more work and increased costs for metal and auto recyclers, especially smaller businesses with strained personnel or cash reserves to deal with these issues. It appears to be a case of if we want clean water; we have to pay the price as a society, or even a greater price if a scrap metal or auto recycler, considering the high costs of compliance, fines and remediation.

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ALTERNATIVE ENERGY

CNG fueling station opens for Denver's garbage fleet

TruStar Energy has opened Denver's first compressed natural gas (CNG) fueling station – a station that will provide fuel to Denver's current fleet of seven CNG garbage trucks. The city plans over the next several years to significantly increase the number of CNG vehicles which will fuel at the station.

The station has the capacity of fueling 136 vehicles simultaneously – which will support Denver's vehicle migration plan over the next several years.

The Denver station is TruStar Energy's third project in Colorado – and continues to grow the White Plains-based company's infrastructure footprint in the U.S. and Canada.

"Converting from diesel to CNG is a game changer for enhancing the profitability of transportation operations," said TruStar Energy president, Adam

Comora. "Fuel savings of 40 to 50 percent create significant value for fleet operators and their partners. Natural gas is better for the environment, better for domestic energy independence and better for the bottom line – truly a win-win solution."

TruStar Energy has historically focused on constructing "behind the fence" private stations like the one just finished for the City of Denver. Over the past few years it has built approximately 60 such stations in the U.S. TruStar Energy has recently expanded out to build owned and public/private fueling stations.

TruStar Energy has the capability of building 40 CNG stations per year and expects to double that capacity over the next few years.

First Wind surpasses projected growth

First Wind, an independent U.S.-based renewable energy company, has achieved record growth in 2013 by securing commitments for some 750 MW in new renewable energy projects.

At the start of 2013, following the extension of the federal tax credits, First Wind announced that it planned to increase its operating portfolio of wind projects by 50 percent. By adding nearly 600 MW in planned new wind projects to the company's 1,000 MW operating

portfolio, First Wind was able to surpass those projections. In addition, the company has added solar power to its portfolio, and will complete 17 MW (AC) of solar projects by the summer and has another 150 MW of solar projects in late stages of development.

For a recap of some of the notable highlights, view this article on www.AmericanRecycler.com.

Vermont biomass power plant denied approval

In a final decision reached on the fate of the 35 MW North Springfield Sustainable Energy biomass plant proposed in Vermont, the Vermont Public Service Board (PSB) denied the plant a certificate of public good, stating that the project would interfere with the State's ability to meet statutory goals for reducing greenhouse gases "as a result of the large annual releases of greenhouse gases that would result from combustion of the wood fuel."

"This is an important decision for the state of Vermont, and nationally", said Mary Booth, director of the Partnership for Policy Integrity, an organization that helped the citizen opponents, the North Springfield Action Group, contest the facility in front of the PSB. "When policymakers see that bioenergy involves harvesting forests and burning the wood in low-efficiency power plants, they conclude that large-scale bioenergy isn't compatible with greenhouse gas reduction goals."

The 35 MW plant would have burned 450,000 tons of wood a year, most of which would have been sourced from whole-tree harvesting. Carbon dioxide emissions would have been over 445,000 tons per year. While the devel-

oper claimed there would be a greenhouse gas benefit, they testified they had not actually done any analysis to demonstrate a reduction in emissions.

Vermont has established a statutory goal of reducing greenhouse gas emissions 50 percent from 1990 levels by 2028.

While the biomass project planned to use some thermal energy to provide heat for businesses in the industrial park where it was to be located, the plant's peak efficiency still would have been around 28 percent. The average efficiency of the U.S. coal fleet is 33 percent.

The PSB concluded that "the evidentiary record supports a finding that the project would release as much as 448,714 tons of CO₂e per year, and that sequestration of those greenhouse gases would not occur until future years, possibly not for decades, and would not occur at all in the case of forest-regeneration failures."

The PSB also found insufficient evidence that the project was needed, stating that it would be more cost effective to do energy conservation, efficiency and load-management measures.

A man spoke frantically into the phone, "My wife is pregnant, and her contractions are only two minutes apart!" "Is this her first child?" the doctor asked. "No, you idiot," the man shouted. "This is her husband!"

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Ameri-Shred introduces the new PMS-2A paper metering/feed system. Until now, conveyor fed shredders in the 15 to 40 hp range required constant manual feeding. With the PMS-2A auto feed, productivity is increased while freeing personnel for other tasks.

Features include: large receiving hopper; dual slider bed conveyors featuring several belt choices; variable speed controller for each conveyor; adjustable metering drum to help maintain a consistent flow; and, a photo eye controller. Although designed for the Ameri-Shred Shredders, the PMS-2A can be used with most any conveyor fed shredder.

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NEW MAINTENANCE-FREE S&H CIRCULATORS BY ARMSTRONG

Armstrong Fluid Technology has announced the introduction of Maintenance-Free (MF) versions of its popular S&H Circulator line and the Seal Bearing Assemblies (SBA) used to service them. The traditional sleeve bearing designs used in this style of circulator require periodic oiling. The maintenance-free S&H Circulators eliminate the need for oiling. The new MF S&H line will be offered as an additional option alongside the traditional sleeve bearing designs.

Armstrong SBAs are also compatible with many competing circulator models that require maintenance.

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www.armstrongfluidtechnology.com



REDUCE DISPOSAL COSTS WITH THE ENCON MVC EVAPORATOR

ENCON Evaporators has debuted the Generation 3 MVC Evaporator. It uses Mechanical Vapor Recompression Technology to drastically reduce costs associated with wastewater disposal. Available in standard capacities ranging from 40 gallons per hour up to 4,000 gallons per hour (larger custom systems available), the MVC Evaporator can simultaneously process multiple waste streams and yield a distilled water product at a fraction of the cost of other disposal methods. If your waste stream is substantially water (70 to 99 percent), it is likely to be an excellent application for the ENCON MVC Evaporator.

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The Moley Claw Magnet, a fully enclosed hydraulic scrap magnet with two sets of claws, is a robust, heavy duty magnet ideally suited for the demolition and scrap industry.

The Moley Claw Magnet offers easy installation, comes in various sizes (32" to 60") and it is simple to hook-up and go. Extended scraping claws are included along with the powerful and efficient magnet. These claws will loosen up dirt, gravel and other debris allowing access to metal pieces.

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PETERSON INTRODUCES THE 5710D HORIZONTAL GRINDER

The 5710D is powered by a Tier IVi Caterpillar C27 engine making 1,050 hp. At 88,500 lbs. the 5710D was designed for operations that require frequent moves between jobs without a special permit. The 5710D is easily moved, and sets up within minutes.

With a feed opening of 60" x 40" combined with Peterson's high lift feed roll, the 5710D can readily reduce a wide range of material including stumps. The 5710D offers one mode for consistent sizing, and a second for primary reduction where accurate sizing is less critical.

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GLASS

Study identifies optimized recycling and recovery model for containers

A stronger network of recycling depots and curbside collection programs will yield increased rates of recycling and material recovery of beverage containers, according to the major findings of a new study commissioned in part by the Glass Packaging Institute (GPI).

The study was designed to provide decision makers with information on the total costs for various beverage container redemption approaches. Resource Recycling Systems (RRS), a consulting firm in the solid waste and recycling fields, prepared the study.

The researchers examined different scenarios for a redemption system that is both cost-effective and works collaboratively with other collection systems, including curbside recycling.

RRS gathered and evaluated data from various existing curbside and redemption programs to develop recommendations for an "Optimized Bottle Bill" (OBB) system that includes the following elements:

- A network of convenient container recycling depots, in addition to retail locations, where consumers can redeem their containers.

- A provision to compensate curbside collection programs and/or material recovery facilities to keep them cost neutral.

- Retention of the unclaimed deposits and the material values within the system to create a sustainable funding mechanism.

Key findings of the study include:

- OBB systems result in increased recovery of materials: OBBs are estimated to increase statewide recovery by at least 11 percent over a comprehensive single stream system and recovery of bottle bill materials by 162 percent.

- OBB systems offer cost comparative structures: OBBs can be comparable in cost to single stream if material revenues are kept by the operator, and in some cases even if unredeemed deposits are not kept in the system.

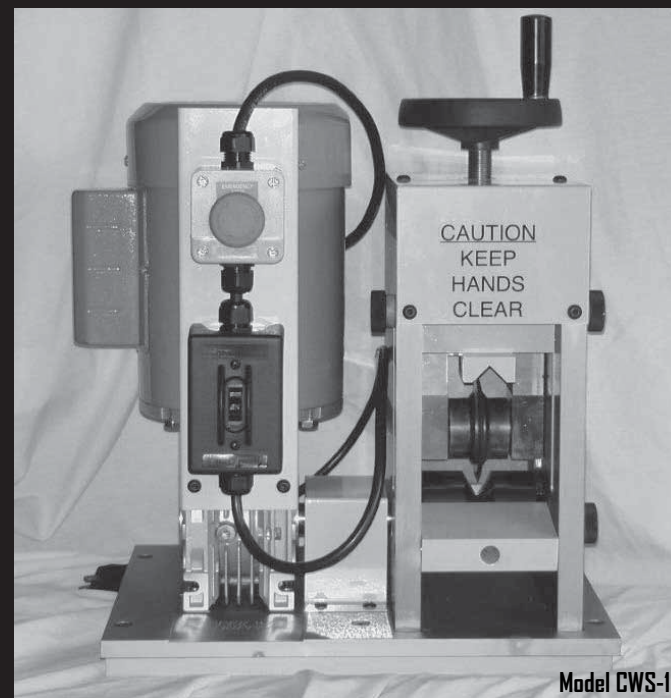
- Redemption centers reduce pressure on retailers: Redemption centers reduce the material returned to retail by an estimated 50 to 80 percent depending upon population density.

- OBB systems employ sustainable funding mechanisms: If unredeemed deposits are reinvested into the recycling infrastructure, then OBBs may increase recovery while also creating a sustainable funding source for recycling.

When glass plants can increase the levels of postconsumer glass as part of the overall batch mix, they can reduce furnace temperatures, resulting in reduced energy use and lower greenhouse gas emissions.

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GLASS

Safelite AutoGlass recycled over 1 million windshields

Safelite AutoGlass recycled more than one million windshields in 2013, saving tons of waste from the landfill.

Windshields are not commonly recycled because they are made from laminated glass, which is created using two sheets of glass with a clear resin interlay called Polyvinyl Butyral between. The resin interlay keeps the glass together when damaged, but it is also difficult to separate the glass and inner plastic layers and re-purpose the PVB. Additionally, the logistics of returning windshields to a recycling plant are challenging.

However, in 2012, Safelite AutoGlass implemented its windshield recycling program thanks to a partnership with Shark Glass Recycling North America.

With Shark's patented technology, the laminated glass from Safelite's customers is processed through the crusher, which separates the glass from PVB. Approximately 90 percent becomes "glass cullet," which can then be recycled into a number of new products including fiberglass insulation, while approximately 7 percent becomes PVB scrap, which is reprocessed into pellets and recycled into a number of new products, such as carpet backing, paint and primer, and other plastic products.

Award submissions accepted

The Glass Packaging Institute (GPI) officially opened the Call for Entries for the organization's 2014 Clear Choice Awards. The entry deadline to submit works for consideration is September 7, 2014.

Each year, the awards program honors industry excellence by recognizing new glass packages that demonstrate the highest quality in terms of innovation, package design, and shelf impact. Entries for the awards are judged by a panel of judges, including members of the glass container industry, media and academia, who have an eye for aesthetics, and a clear vision for the future of glass packaging. This year's competition will also feature a

People's Choice Award, allowing contestants to showcase their products to larger audiences.

Winners will be announced at PACK EXPO, an industry trade show, which will take place in November 2014. Winning products will also be displayed at the event, giving winners the opportunity to present their best work to top industry representatives.

The Clear Choice Awards winners receive benefit from industry-wide recognition and brand-building promotion.

For additional information, view this article on www.AmericanRecycler.com.



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METALS

FeMet selects grant recipients

The Association for Iron & Steel Technology Foundation's Ferrous Metallurgy Education Today (FeMET) Initiative's goal is to increase the number of students studying metallurgy and materials science in North America and to increase the number of such students electing to pursue careers in the iron and steel industry upon graduation.

The FeMET Curriculum Development Program is one component of this initiative whereby professors of ferrous metallurgy or materials science programs at North American universities are challenged to submit proposals to update and enhance industry-related curriculum. Each grant recipient receives up to \$25,000 over a 5 year period.

The following professors have been awarded a FeMET Curriculum Development Grant for 2013–2014:

•Randy J. Bowers, Ph.D., University of Windsor, Windsor, Ontario, Canada.

•Joseph P. Domblesky, Ph.D., Marquette University, Milwaukee, Wisconsin.

•Alan P. Druschitz, Virginia Polytechnic Institute and State University, Blacksburg, Virginia.

•Kyle G. Gipson, James Madison University, Harrisonburg, Virginia. (sponsored by Steel Dynamics Inc. – Roanoke Bar Division).

•S. Komar Kawatra, Ph.D., Michigan Technological University, Houghton, Michigan.

•Marian Kennedy, Ph.D., Clemson University, Clemson, South Carolina.

•John A. Nychka, Ph.D., University of Alberta, Edmonton, Canada.

•Robert B. Tuttle, Saginaw Valley State University, University Center, Michigan.

Since its inception in 2005, the FeMET Initiative has awarded approximately \$2 million. New proposals for the FeMET Curriculum Development Program's 2014–2015 academic year will be accepted until June 30, 2014.

Armco Metals Holdings and Mitsui & Co. enter into steel agreement

Armco Metals Holdings, Inc. disclosed that its Armco Renewable Metals, Inc. subsidiary has entered into a steel scrap supply agreement with Mitsui & Co. Ltd., a wholly owned subsidiary of Mitsui & Co., Ltd.

Under the terms of the agreement, Armco will serve as Mitsui's vendor for sourcing, processing and supplying scrap

metals with various specifications and standards. Mitsui has also agreed to advance payment for the joint purchase of raw materials and complete final purchase of the steel scrap upon completion of processing services. This purchasing business model for Armco is designed to better enforce its supply agreements with customers and lower business risk.

Severstal sees increase in auto body sheet production

In 2013 OAO Severstal achieved maximum volumes of shipments from its hot-dip-galvanizing line. In 2013 Severstal increased production of automotive body sheet by 44 percent compared with 2012, with an output of around 95 thousand tons.

In 2013, more than 86 percent of Severstal's total shipments of hot-dip-galvanized automotive body sheet was delivered to international companies operating in Russia. Overall Severstal delivered 82 thousand tons of hot-dip-galvanized sheet to international companies operating in Russia and the CIS.

The increased production was attributed to the successful development

of a required range of products and the expansion of rolled steel processing joint venture companies supplying prefabricated parts to international automotive companies. The hot-dip-galvanizing line currently produces more than 50 grades of hot-dip-galvanized steel sheet, several of which are produced exclusively by the Cherepovets Steel Mill.

Severstal also supplies international automotive companies with cold-rolled, hot-rolled and hot-rolled-etched sheet. Severstal delivered a total of 126 thousand tons of steel products to international automotive companies operating in Russia in 2013.

Timken registers spinoff business

The Timken Company disclosed that TimkenSteel Corporation, its newly formed subsidiary which will hold the company's steel business, has filed an initial Form 10 Registration Statement with the U. S. Securities and Exchange Commission. The filing relates to the previously announced plan to pursue a spinoff of The Timken Company's steel business into an independent publicly traded company. Upon completion of the spinoff, TimkenSteel will be North America's only focused special bar quality steelmaker, with annual revenues of approximately \$1.4 billion based on 2013 segment sales.

"Filing the initial Form 10 is a significant milestone in the process of establish-

ing TimkenSteel as a stand-alone publicly traded company," said James W. Griffith, president and chief executive officer. "The Form 10 offers current shareholders and future investors a first look at TimkenSteel, its business model and markets.

Timken expects the spinoff to be tax-free to shareholders, with TimkenSteel common shares listed on the New York Stock Exchange under the ticker symbol TMST.

Completion of the transaction requires further work on structure, management, governance and other matters, and is subject to customary conditions and final approval of The Timken Company's board of directors.



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METALS

Steel imports increase 27 percent

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 3,172,000 net tons (NT) of steel in January 2014, including 2,409,000 NT of finished steel (up 26.6 percent and 27.5 percent, respectively, vs. December final data). Year-to-date (YTD) total and finished steel imports are 3,172,000 and 2,409,000 NT, respectively, up 21 percent and 12 percent respectively, vs. 2013. Finished steel import market share was an estimated 26 percent in January.

Key finished steel products with a significant import increase in January compared to December 2013 are reinforcing bars (up 168 percent), wire rods (up 145 percent), sheet and strip all other metallic coatings (up 115 percent), oil country goods (up 58 percent), plates in coils (up 39 percent), sheets and strip galvanized hot dipped (up 38 percent),

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS BY COUNTRY OF ORIGIN (Thousands of Net Tons)					
	JAN 2014	DEC 2013	2014 Annual (est)	2013 Annual	% Change 2013 Annual vs. 2012
SOUTH KOREA	429	300	5,152	3,718	38.6%
TURKEY	200	45	2,403	1,204	99.5%
CHINA	191	143	2,287	1,898	20.5%
JAPAN	159	151	1,911	1,894	.7%
TAIWAN	102	45	1,224	762	60.8%
RUSSIA	83	23	994	241	312.8%
GERMANY	75	94	903	1,112	-18.7%
All Others	1,169	1,088	14,032	13,997	.3%
TOTAL	2,409	1,889	28,906	24,826	16.4%

cold rolled sheets (up 23 percent) and hot rolled sheets (up 11 percent).

In January, the largest volumes of finished steel imports were from South Korea (429,000 NT, up 43 percent vs.

December final), Turkey (200,000 NT, up 341 percent), China (191,000 NT, up 33 percent), Japan (159,000 NT, up 6 percent) and Taiwan (102,000 NT, up 127 percent).

Import permit applications up in January

Based on the Commerce Department's most recent Steel Import Monitoring and Analysis data, the American Iron and Steel Institute reported that steel import permit applications for the month of January total 3,080,000 net tons (NT). This was a 19 percent increase from the 2,582,000 permit tons recorded in December and 23 percent increase from the December preliminary imports total of 2,502,000 NT. Import permit tonnage for finished steel in January was 2,414,000, up 28 percent from the preliminary imports total of 1,884,000 in December. The estimated finished steel import market share in January was 26 percent.

Finished steel imports with large increases in January permits versus the December preliminary included reinforcing bars (up 165 percent), wire rods (up 151 percent), sheets and strip all other metallic coatings (up 115 percent), plates in coils (up 57 percent), oil country goods (up 36 percent) and sheet and strip galvanized hot dipped (up 30 percent).

In January, the largest finished steel import permit applications for offshore countries were for South Korea (387,000 NT, up 29 percent from December preliminary), China (199,000 NT up 39 percent), Japan (179,000 NT, up 22 percent), Turkey (172,000 NT, up 280 percent) and The Netherlands (99,000 NT, up 63 percent).

AR Scrap Metals
MarketWatch

Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$280.00	\$290.00	\$300.00	\$310.00	\$358.00
#1 Bundles	per gross ton	280.00	290.00	300.00	300.00	365.00
Plate and Structural	per gross ton	275.00	285.00	318.00	349.00	380.00
#1 & 2 Mixed Steel	per gross ton	274.00	285.00	310.00	340.00	355.00
Shredder Bundles (tin)	per gross ton	260.00	250.00	245.00	290.00	300.00
Crushed Auto Bodies	per gross ton	260.00	250.00	245.00	290.00	300.00
Steel Turnings	per gross ton	179.00	180.00	187.00	185.00	249.00
#1 Copper	per pound	2.86	2.79	2.80	2.70	2.85
#2 Copper	per pound	2.70	2.65	2.69	2.58	2.65
Aluminum Cans	per pound	.57	.58	.64	.68	.70
Auto Radiators	per pound	2.09	1.95	1.94	1.98	2.10
Aluminum Core Radiators	per pound	.61	.59	.61	.66	.68
Heater Cores	per pound	1.70	1.60	1.55	1.49	1.69
Stainless Steel	per pound	.58	.56	.60	.63	.71

All prices are expressed in USD. Printed as a reader service only.

DISCLAIMER: American Recycler (AR) collects pricing and other information from experienced buyers, sellers and facilitators of scrap metal transactions throughout the industry. All figures are believed to be reliable and represent approximate pricing based on information obtained by AR (if applicable) prior to publication. Factors such as grades, quality, volumes and other considerations will invariably affect actual transaction prices. Figures shown may not be consistent with pricing for commodities associated with a futures market. While the objective is to provide credible information, there is always a chance for human error or unforeseen circumstances leading to error or omission. As such, AR is not responsible for the accuracy or completeness of the information provided, or for outcomes arising from use of this information. American Recycler disclaims any liability to any person or entity for loss or damage resulting from errors or omissions, including those resulting from negligence of AR, its employees, agents or other representatives.

Nucor declares cash dividend

The board of directors of Nucor Corporation declared the regular quarterly cash dividend of \$0.37 per share on Nucor's common stock.

This cash dividend is payable on May 12, 2014, to stockholders of record on March 31, 2014, and is Nucor's 164th consecutive quarterly cash dividend.

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PLASTICS

Social sharing to increase recycling of plastic wraps

In an effort to educate more consumers about the ease of recycling flexible plastic wraps, the American Chemistry Council's (ACC) Flexible Film Recycling Group (FFRG) launched a new social media campaign to help spread the word about the many types of flexible film that can now be recycled at major grocery and retail stores across the U.S.

The campaign, the Wrap Recycling Action Program (WRAP) Social Sharing Initiative, is designed to encourage Facebook users to share information about recycling flexible plastic packaging. Participants will be rewarded with a chance to win a \$50 gift card. There are two ways to win.

Help us share the "how to" message

Facebook users can visit Recycle Your Plastics on Facebook to like the page and share the flexible film recycling post to help their Facebook friends learn about all of the flexible plastic wraps that now can be easily recycled at local stores. Everyone who likes the page and shares the post will be entered into a sweepstakes for a chance to win a \$50 Amazon gift card. Two winners per week will be selected at random over the next six months.

Show us how you recycle plastic wraps

Facebook users also can upload their own unique pictures via the WRAP Social Picture Gallery to demonstrate how they recycle flexible plastic wraps or are educating others to do so. Two winners per week will be selected at random over the next six months. Please see our Facebook page for official rules.

Flexible film is a broad category of packaging that includes a range of plastic wraps, such as produce bags, bread bags and overwraps from products including beverage cases, paper towels, napkins, bathroom tissue, diapers and wipes. It also includes shipping pillows, dry cleaning bags, and plastic shopping, or "carrier," bags.

There are now more than 18,000 drop-off centers across the country that collect used flexible plastics, located primarily in major grocery and retail stores.

More than one billion pounds of flexible plastic wraps was recycled in the U.S. in 2012, including used wraps returned to local stores by consumers – as well as commercial wraps recycled by grocery and retail chains and other industrial users. Today, a minimum of over 70 percent of Americans have local access to a recycling program.

Upon her engagement, a bride went to her mother and said, "I've found a man just like father!" Her mother replied, "So what do you want from me, sympathy?"

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AUTOMOTIVE

EPA sets cleaner standards

Based on extensive input from the public and a broad range of stakeholders, including public health groups, auto manufacturers, refiners and states, the U.S. Environmental Protection Agency (EPA) has finalized emission standards for cars and gasoline in an attempt to significantly reduce harmful pollution while also enabling efficiency improvements in the cars and trucks we drive. These cleaner fuel and car standards are an important component of the administration's national program for clean cars and trucks, which also include historic fuel efficiency standards that are saving new vehicle owners at the gas pump. Once fully in place, the EPA predicts that the new standards will help avoid up to 2,000 premature deaths per year and 50,000 cases of respiratory ailments in children.

The final standards will quickly and effectively cut harmful soot, smog and toxic emissions from cars and trucks. The Obama Administration's actions to improve fuel economy and reduce greenhouse gases from these same vehicles will also result in average fuel savings of more than \$8,000 by 2025 over a vehicle's lifetime. The fuel economy and greenhouse gas standards covering model year vehicles from 2012-2025 are projected to save American families more than \$1.7 trillion in fuel costs.

The standards slash emissions of a range of harmful pollutants that can cause premature death and respiratory illnesses, reducing standards for smog-forming volatile organic compounds and nitrogen oxides by 80 percent, establishing a 70 percent tighter particulate matter standard and virtually eliminating fuel vapor emissions. These standards will also reduce vehicle emissions of toxic air pollutants, such as benzene by up to 30 percent.

The final fuel standards will reduce gasoline sulfur levels by more than 60 percent – down from 30 to 10 parts per million in 2017. Reducing sulfur in gasoline enables vehicle emission control technologies to perform more efficiently. New low-sulfur gas will provide significant and immediate health benefits because every

gas-powered vehicle on the road built prior to these standards will run cleaner – cutting smog-forming NOx emissions by 260,000 tons in 2018.

The Tier 3 standards cut tailpipe pollution where people live and breathe – reducing harmful emissions along the streets and roadways that run through neighborhoods and near schools. By 2018, EPA estimates the cleaner fuels and cars program will annually prevent between 225 and 610 premature deaths, significantly reduce ambient concentrations of ozone and reduce nitrogen oxide emissions by about 260,000 tons. That is about 10 percent of emissions from on-highway vehicles, with those reductions reaching 25 percent (330,000 tons) by 2030.

By 2030, EPA estimates that up to 2,000 premature deaths, 50,000 cases of respiratory ailments in children, 2,200 hospital admissions and asthma-related emergency room visits, and 1.4 million lost school days, work days and days when activities would be restricted due to air pollution. Total health-related benefits in 2030 will be between \$6.7 and \$19 billion annually. The program will also reduce exposure to pollution near roads. More than 50 million people live, work or go to school in close proximity to high-traffic roadways, and the average American spends more than one hour traveling along roads each day.

The final standards are expected to provide up to \$13 in health benefits for every dollar spent to meet the standards, more than was estimated for the proposal. The sulfur standards are projected to cost less than \$.01 per gallon of gasoline on average once the standards are fully in place. The vehicle standards will have an estimated average cost of about \$72 per vehicle in 2025. The standards support efforts by states to reduce harmful levels of smog and soot and aids their ability to attain and maintain science-based national ambient air quality standards to protect public health, while also providing flexibilities for small businesses, including hardship provisions and additional lead time for compliance.

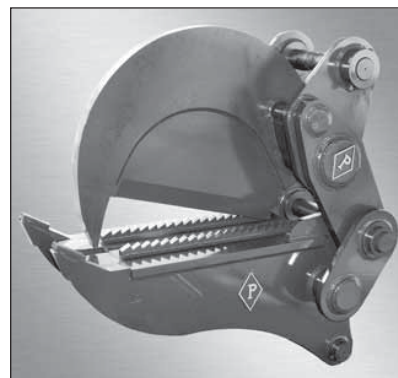
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PAPER

Sonoco Display and Packaging plant achieves landfill-free status

Sonoco Recycling, LLC, a wholly owned subsidiary of Sonoco and one of the largest packaging recyclers in North America, disclosed that Sonoco Display and Packaging's Rural Hall, North Carolina facility has successfully diverted over 99 percent of its waste from landfills.

In September 2011, employees at Sonoco's Rural Hall fulfillment facility formed Team Green to help focus on the goal of achieving landfill-free status in two years. This was a significant challenge for a fulfillment facility whose material mix frequently changes based on the current customer and project running.

One of the major challenges for the team was not only staying on top of the fluctuating material mix but determining the best outlet for each new recyclable encountered. The team began its recycling program by reviewing, monitoring and restricting access to the dumpster. Common recycling areas were set up in production and office areas, and employees were encouraged to bring in their recyclables from home. Once this was accomplished, process and procedures were put into place to help collect, distribute and assess new recyclables as they were encountered.

"In just two years, Team Green was able to divert over 99 percent of Rural Hall's waste through a mix of recycling, reuse and waste-to-energy," said Rodger Fuller, group vice president, Paper and Industrial Converted, North America.

A strong component of Rural Hall's recycling program is the initiative to reuse

articles that aren't easily recyclable. Many old inventory items such as bags or boxes, previously slated as waste, are now distributed among employees. This initiative also includes items that can be reused by local non-profit organizations. Used work gloves are given to Goodwill, and scrap bubble wrap and other items that were once thrown away now benefit non-profit educational programs within the community. Used computers, printers and other inventory items are donated to public schools in need of supplies for art or learning.

To help further drive home the importance of recycling, an Employee Recycling Account was setup to collect funds from the newly formed waste streams. This account is dumped at the end of the year and is evenly split among all permanent employees as a thank you for their participation in these recycling efforts.

Created to recognize customer and Sonoco facilities for achieving significant milestones in landfill diversion and waste stream reduction, the Sustainability Star Award program is composed of three tiers:

- Gold Star Awards, which recognize facilities that have achieved 99 percent landfill diversion;

- Silver Star Recognition, which is awarded to facilities achieving 95 percent landfill diversion; and

- Bronze Awards, which recognize facilities that have made significant waste reduction achievements.

Airline utilizes recyclable hot beverage cups

United Airlines has introduced a new, eco-friendly coffee cup to its United Club beverage service on United flights. The insulating InCycle® cup, manufactured by MicroGREEN, is fully recyclable and made from up to 50 percent recycled materials. The InCycle cup will replace the non-recyclable Styrofoam hot beverage cups the airline currently uses.

Through MicroGREEN's technology, four and a half InCycle cups are made from a single recycled water bottle in a waterless, additive-free recycling process. The cup is also insulated, eliminating the need for a sleeve.

United is reviewing its operational recycling efforts to find ways to reduce waste and to increase recycling within its system. This includes a re-design of United's inflight recycling policy and procedures to simplify the process for flight attendants, generate increased recycling volumes and minimize waste.



AF&PA releases paper reports

The American Forest & Paper Association released its January U.S. paper reports.

Containerboard

Containerboard production increased 3.8 percent over December 2013 and was essentially flat compared to the same month last year. The month-over-month average daily production also increased 3.8 percent. Shipments for January were 2,979.8 thousand tons representing 167.8 billion sq.ft.

Boxboard

Total boxboard production increased 1.3 percent when compared to January 2013 and increased 1 percent from December. Unbleached Kraft Boxboard production decreased over the same month

last year but increased compared to December.

Kraft Paper

Total Kraft paper shipments were 128.2 thousand tons, 2.2 percent higher compared to the prior month. Bleached Kraft paper shipments were 51 percent lower than the same month last year, while unbleached Kraft paper shipments were down 2.7 percent year-over-year. Total month-end inventories increased 3.1 percent compared to December 2013.

Printing-Writing Paper Report

Total printing-writing paper shipments decreased eight percent in January compared to January 2013, with decreases in all four printing-writing grades.

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BUSINESS BRIEFS

RiverRoad Waste appoints new vice president

■ RiverRoad Waste Solutions Inc. has appointed waste industry veteran Stephen Coskery to the position of senior vice president of business development. Coskery is the former vice president of business development at sister company FrontStreet Facility Solutions Inc.

Prior to his involvement at FrontStreet, Coskery was responsible for strategic accounts in the food and retail sector at Waste Management. He was the leading revenue producer at Waste Management, generating 70 percent of the division's sales and exceeding \$275 million in contracted revenue in the 3 years prior to his departure.

Newalta declares quarterly dividend

■ Newalta Corporation declared a quarterly cash dividend of \$0.11 per common share for the first quarter of 2014, payable on April 15, 2014 to all shareholders of record on March 31, 2014. The ex-dividend date is March 27, 2014.

Newalta's dividend reinvestment plan provides eligible shareholders with the opportunity to reinvest their quarterly dividends to acquire additional Newalta shares at a purchase price equal to 95 percent of the average market price. Newalta expects that the dividends will be eligible dividends for income tax purposes and thus qualify for the enhanced gross-up and tax credit regime for certain shareholders.

New York City names new waste commissioner

■ New York City Mayor de Blasio appointed Kathryn Garcia as the city's Department of Sanitation commissioner.

A native New Yorker, Garcia is currently the chief operating officer of the New York City Department of Environmental Protection (DEP), where she has overseen the operations of the Bureaus of Water Supply, Water and Sewer Operations, and Wastewater, with a combined staff of 4,000 employees, a \$540 million expense budget, and a \$1.9 billion 4 year capital budget.

As head of day-to-day operations at DEP, Garcia developed and managed DEP's performance program, H2OStat, which significantly decreased DEP's response time to 311 complaints and street repair requests, and developed a number of DEP's crisis management plans, including the Continuity of Operations Plan and a Water Contamination Response Plan.

Garcia came to the city's DEP after spending 10 years as vice president of Appleseed, the non-profit consulting firm and advocacy organization. At Appleseed, Garcia specialized in economic development strategies and urban planning, working to ensure equity of access and fair allocation of resources to schools and neighborhoods across the city. Garcia began her career as a policy analyst at the New York City Department of Finance and as a press officer at the Local Initiatives Support Corporation.

Armstrong Fluid names global marketing manager

■ Armstrong Fluid Technology has disclosed that Wayne Rose has been promoted to the position of global marketing manager – pumps. In his new role he assumes responsibility for the marketing of the Armstrong portfolio of pumps, Suction Guides and Flo-Trex valves on a worldwide basis, with particular emphasis on the company's Design Envelop pump models.

Rose has fulfilled a number of roles at Armstrong since joining the company 15 years ago. Building on his experience as a product manager, he progressed to the role of marketing director with responsibility for branding and communication, and most recently has been responsible for manufacturing and technical services operations at Armstrong's factory in Manchester, United Kingdom (UK). In his new role, reporting to Brent Ross, global director of configured building equipment, he will continue to be a member of the UK leadership team, whilst assuming his new international role from his base in Manchester.

GENERAL

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Crushmaster to expand into North America

■ Crushmaster Ltd., a manufacturer of size reduction and processing equipment for the waste to energy and biomass industries, disclosed that it will expand its operation into North America.

Crushmaster is in the process of opening a facility near Chicago, Illinois which will stock machines and aftermarket parts in addition to a material testing center. The facility will be staffed with personnel knowledgeable in the waste to energy industry.

Hendrickson Specialty Products forms partnership

■ Hendrickson Specialty Products Auxiliary Axle Systems and The Godwin Group have established a new partnership. In an effort to direct focus towards its core competencies, The Godwin Group elected to phase out the Page brand of suspensions. As a result, Hendrickson Auxiliary Axle Systems was selected as the primary lift axle suspension supplier to The Godwin Group.

Godwin Group is committed to servicing their Page customers with replacement parts and has made investments to ensure this can be done for the next several years.

What is the longest word in the English language? SMILES – There is a mile between the first and last letters!

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A6	Commercial Industrial Auctioneers
A7	Connecticut Metal Industries
A10	Copper Wire Stripper
A12, B8	DADE Capital Corp.
B5	DuraTech Industries Intl., Inc.
A16	Federal Equipment Company
A19	Franklin Miller
A18	General Kinematics Corporation
A5	Government Liquidation
A11	Granutech Saturn Systems, Inc.
A17	International Baler
A15	Magnetics Div., Global Equipment
A9	Mallin Bros.
A8	Maurer Manufacturing
A14	Moley Magnetics, Inc.
B4	NCM Odor Control
A24	OverBuilt, Inc.
A16	Pemberton, Inc.
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A23	Recycling Equipment Sales, Inc.
A4	Recycling Services Intl., Inc.
A2	RM Johnson Company
A11	SAS of Luxemburg, Ltd.
A7	Sierra International
A19	SSI Shredding Systems, Inc.
A8	Supershear, Inc.
A17	Tuffman Equipment
A6	Vecoplan, LLC
B6	VZN Group, LLC

BUSINESS BRIEFS

Curbside Value Partnership names executive director

■ The Curbside Value Partnership (CVP) has appointed Keefe Harrison as its new executive director. Founding executive director Steve Thompson is retiring after more than a decade of service with CVP and almost 40 years in the recycling industry.

Harrison comes to CVP with 15 years of experience in the sustainability and recycling industries. She has experience working with trade associations and government. She most recently served as a senior consultant for Resource Recycling Systems and has also worked with the Recycling Division of the North Carolina Department of Environment and Natural Resources.

Thompson has been the executive director of CVP since its launch. His leadership, integrity and extensive knowledge of the industry helped create CVP (beginning in 2003) and to build it to become the leading national nonprofit dedicated to helping communities grow and sustain curbside recycling programs.

KPI-JCI adds parts sales representative

■ KPI-JCI and Astec Mobile Screens has hired Kyle LaCroix as a domestic outside parts sales representative.

In his new position, LaCroix will support authorized dealers in his territory with parts sales.

LaCroix will begin covering his territory in the third quarter once training is concluded.

Vortex names exclusive agent in Africa

■ Vortex has appointed Capack Pty. Ltd. as the company's exclusive representative in South Africa, Lesotho, Botswana, Swaziland, Namibia, Zimbabwe, Mozambique, Zambia, Malawi, Tanzania, Kenya, Uganda, Mauritius and Seychelles. Capack offers specialized solutions for handling difficult dry bulk solids materials in the chemical, food, pharmaceutical, mineral, and mining industries.

Capack also represents some of the world's top bulk handling equipment solutions, including BFM Fittings, Solimar, Matcon and Stiflex.

Novelis appoints new vice president

■ Novelis has appointed Manfred Stanek to the position of vice president, strategy, and chief commercial officer, effective April 1, 2014.

In this role, Stanek will be responsible for developing Novelis' global strategy and leading the commercial organizations for the company's automotive, can and specialty products. He will report directly to Phil Martens, Novelis president and chief executive officer, and serve as a member of the Novelis global operating committee. He will be confirmed at the next Novelis board of directors' meeting.

Stanek joined Novelis in 2012 as director, specialty products for South America, and most recently served as vice president, commercial and strategy, for the region.

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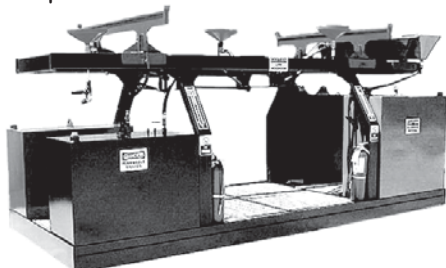
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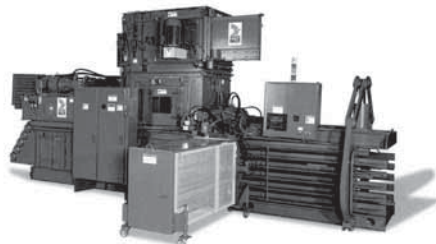
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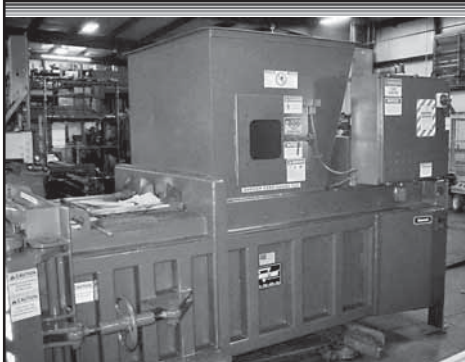
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1995 MHL340 REBUILT (rubber) 41' reach, hyd. cab, gen-set, grapple.

2006 MHL 340 (rubber) 41' reach, hydraulic cab, gen-set, grapple.

2005 MHL350 (rubber) 50' reach, hyd. cab, gen set, grapple (4 available).

2003 MHL360 REBUILT (rubber) 59' reach, hyd. cab, gen-set, grapple.

2005 MHL360 (rubber) 59' reach, hyd. cab, gen-set, grapple (2 available).

LIEBHERR

2008 A954 (rubber) 59' reach, 7' rigid cab riser, gen-set, grapple and new engine.

2007 A934C (rubber) 51' reach, hyd. cab, gen-set, grapple.

2005 Liebherr R934EW (crawler) 51' reach, hydraulic cab, gen-set, grapple.

2006, 2008 & 2009 A924C (rubber) 42' reach, hyd. cab, gen-set, grapple.

2003 R924 (crawler) 42' reach, new undercarriage, 4' cab riser, gen-set.

1994 A932 REBUILT (rubber) 48' reach, hyd. cab, gen-set, grapple.

1995 A932 (rubber) 50' reach, 4' cab riser, gen-set.

SENNEBOGEN

2007 821M (rubber) 36' reach, hyd. cab, gen-set, grapple.

2007 825M (rubber) 41' reach, hyd. cab, gen-set, grapple.

2003 & 2007 830M (rubber) 50' reach, hyd. cab, gen-set, grapple.

2004 & 2005 835M (rubber) 55' reach hyd. cab, gen-set, grapple.

ATLAS

2003 1704 (crawler) 39' reach, 4' tilting cab riser, gen-set, grapple.

1996 1804 (crawler) 48' reach, 2' cab riser, gen-set, grapple.

SHEARS

2006 Caterpillar 345CL-VG12 with Cat S385C rotating shear.

2005 Kobelco SK210 with rebuilt pump; LaBounty MSD 40 straight shear with rebuilt cylinder.

MISCELLANEOUS

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2005 & 2006 Komatsu PW220-7 (rubber tired) 41' reach, hydraulic cab, gen-set, grapple.

2007 Komatsu WA-250-5 wheel loader with 5,930 hours, quick coupler, forks, 2.5 cy. GP bucket, 3.25 cy. grapple bucket, on-board scale.

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Recycling reduces tonnage tipped

by MARK HENRICKS

mhenricks@americanrecycler.com

At one time it appeared that America might one day virtually drown in its own waste. The trend-line of trash generation had gone steeply upward since anyone began tracking it more than 50 years ago. From 1960 to 1990, generation of municipal solid waste (MSW) had grown from 2.68 lbs. per person per day to 4.57 lbs. per person per day, according to the Environmental Protection Agency (EPA). Coupled with population growth, this resulted in 208.3 million tons of solid waste generated in 1990, nearly 2.5 times the 88.1 million tons generated in 1960.

At that rate of growth, we would have by now been bulldozing more than a half-billion tons of waste per year. However, not long after that, things turned around. Solid waste generation per person per day peaked in 2000. Meanwhile, today's per capita waste generation rate is the lowest since the 1980's.

"Based on EPA data, the tonnage of waste going to landfills has slowly

declined since 1990," said Sharon Kneiss, president and CEO of the National Waste & Recycling Association. "According to EPA data, landfills received ten million fewer tons in 2012 than in 1990," she adds. "At the same time, recycling and composting increased by 53 million tons."

EPA's latest report, based on 2012 data, shows that Americans produced 251 million tons of trash. That was up just 20 percent in 22 years from 1990, compared with the 242 percent increase in 30 years from 1960 to 1990.

In addition to growing in tonnage, recycling also accounts for a much larger portion of the waste stream. In 1980, less than 10 percent of municipal solid waste was recycled. Today, the recycling and composting rate exceeds 34 percent. The average American in 2012 recycled or composted 1.51 lbs. per day, for 87 million tons a year – nearly as much as the total national amount of waste in 1960.

Over time, waste has become less dominant and recycling has become more prominent. One example of that is The National Waste & Recycling Association, which recently changed its name from National Solid Wastes Management Association as part of a merger.



In 2012, landfills saw a 10 million pound decrease in tipped material compared to 1990 numbers.

PHOTO BY PHOTOGRAPHERLONDON | DREAMTIME

But new names and shifts in size and disposition of the waste stream suggest that changes are afoot without clarifying what those changes might be. For instance, one question is whether, as more localities implement or expand recycling, that has been the only factor in declining volumes of material being sent to landfills.

Kneiss said greater rates of recycling and composting have, indeed, helped reduce the amount of material being sent to landfills. However, another important factor in the lower landfill tonnages, she said, is that today's landfilled material tends to be lighter in weight. For example, it contains significantly less printed paper, which weighs more than the plastics and other packaging that have replaced printed paper for many uses.

Economic trends are another factor. For instance, Kneiss said, the 2008 recession, which was more severe than any that has occurred since the waste stream has been comprehensively meas-

ured, helped depress production of all kinds of waste, including packaging. That recession was particularly hard on the construction industry and, as a result, construction and demolition (C&D) volumes were negatively affected.

A primary source of revenue for landfills is tipping fees charged to waste haulers, demolition firms and others. So it's natural to wonder whether tipping fees are falling as landfills compete for a stable or shrinking volume of landfilled material. And, if that is happening, whether landfill operators are feeling the economic impact and perhaps looking for other revenue sources.

Kneiss said, tipping fees continue to be viable financial supports for the landfill industry. Fees are not showing any effects of downward pressure. In fact, it's the opposite. "Based on national surveys, tipping fees continue to slowly rise," she said.

Landfills tend to be long-lived facilities, sometimes operating for decades. And some of today's landfills were planned and constructed back when it seemed that the national waste stream

See LANDFILLING, Page 7



Another reason for the decrease in landfilled tonnage is that heavier materials, such as printed paper, have largely been replaced by lighter alternatives or are diverted for recycling.

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A Letter from the Editor

Readers,

There's been quite a bit of drama abroad lately. Russia and Ukraine have been at odds over Crimea, and a Malaysia Airlines plane with 239 passengers aboard up and disappeared under mysterious circumstances.

Here at home, March Madness has people filling out brackets and organizing office betting pools, and generally costing businesses an estimated \$1.2 billion in lost productivity. Fortunately, most of us here at American Recycler are woefully ignorant or uninterested when it comes to sports, leaving us mostly untouched by the (sports) madness.

With so much interesting news to follow, one could be forgiven for not realizing that Tax Day is fast approaching.

This time of year used to be an exciting one. Back when I was an undergraduate student making little to no income, I could usually count on getting at least several hundred dollars back – which I would promptly spend on important college things like beer.

But now that I'm gainfully employed and making somewhat better than minimum wage, this time of year leaves me more bitter than inebriated.

Yes, for the past several years I've either broken even (which is the fiscally responsible thing to do, or so I've been told), or actually owed Uncle Sam some dough. I don't mind paying my fair share, but the bitterness comes from seeing some individuals who are chronically under-employed, and who receive oodles of government benefits, getting a tax refund that is probably many times the actual amount of taxes they've paid in.

I vaguely understand the tax code provisions – earned income credits, child credits, etc. – by which such refunds are made possible. But it seems to me that we're incentivizing the wrong sort of behavior, namely, reproducing well beyond families' abilities to care for said offspring.

But if I manage to save some pennies after paying off the government, you'll find me gambling them away in Las Vegas this month. That's right, I'm headed to the ISRI Convention, and hopefully I'll see many of you there. Send me an e-mail if you'd like to catch up – perhaps to shake my hand, or maybe to call me a right-wing lunatic. Either works for me.

Until next month,



Dave Fournier
Focus Section Editor
david@americanrecycler.com

Truck scales owners' best practices in the recycling and solid waste industry

contributed by FAIRBANKS SCALES

iadel@fairbanks.com

In today's recycling and solid waste industry, uptime is of utmost importance. Most facilities experience long lines at the scale, and so they place a premium on getting trucks in and out quickly. However, have you ever stopped to think about how much you could be losing per truck?

When businesses place scales in service, the state Weights & Measures Department certifies that it meets the necessary regulatory requirements. Unfortunately, external variables and real-world issues can knock your scale out of calibration and cost a business a lot of money.

But just how much could it cost?

A simple error of one increment (20 lbs.) can lead to \$30,000 in annual product loss! This is a real example and is based on a product with a value of \$.05 per pound and a duty cycle of 100 weighments per day. The following best practices can help prevent such an expensive scenario.

Implement a calibration and inspection agreement

The simplest step you can take is to implement a calibration and inspection agreement with your service provider. Depending on the requirements and type of weighing device, inspection costs can be as low as \$500 annually depending on the frequency required to assure accurate weighing and to reduce the risk of loss due to an inaccurate scale. Compared to the potential loss figures, this is a worthwhile investment.

But how often should your scale be inspected? Fairbanks Scales, a provider of industrial weighing equipment and service, recommends a minimum of two inspections per year for most scales, but the sort of heavy traffic which recycling and solid waste facilities experience can easily justify more frequent verification, inspection and service. Consult with your scale service company about a schedule that works best for your company.

Keep the scale foundation clean

Recycling and solid waste operations can generate a lot of debris. Be sure to regularly remove the build-up to avoid scale inaccuracies. A pressure sprayer is a fast and easy way to clear debris and keep the scale and foundation free of build-up. Be sure that your junction boxes, electronics and load cells are properly rated to withstand pressure washing; otherwise you may cause damage.

Perform your own inspection

Inspect for anomalies. A properly operating scale is dependent on every component working together. Inspect the weighbridge for damage or signs of wear and corrosion. Examine the junction boxes inside and out. Do they show signs of damage, corrosion or moisture entry? Module connection hardware should be intact and not damaged. Check the load cells for damage, corrosion and signs of moisture entry into the enclosure and the cable entry gland. Liquid is a good conductor and can easily short your electronics if allowed to enter the sensing element area.

Some manufacturers feature quick disconnect style load cell cables. Be sure to inspect these connections frequently as they are responsible for a significant number of avoidable failures. This is also a good time to inspect the wiring for damage. Exposed conductors cause communication errors when wet and are usually the culprit of erratic performance.

Your scale's paint system isn't just for good looks. It's a critical barrier against scale corrosion on your weighbridge steel. Be sure to reapply if you expect maximum life from the weighbridge steel.

Grease the load cell cups at recommended intervals. Some manufacturers incorporate zerk type fittings allowing grease application without the need to physically separate the load cell components.

Inspect concrete for signs of failure. Address these issues as soon as possible. Left unchecked, they will only get worse and will cause larger, and more costly, problems.

Make adjustments

Your weighbridge will expand and contract slightly at different times of the year; this is natural. This thermal expansion requires attention and readjustment of your checking. The checking system on your scale keeps the weighbridge in place as it naturally rocks and moves from traffic. Too small a gap in the checking can cause binding and weighing errors. Too much gap in the checking allows excessive movement, up to and including a scale tipping. Excessive movement adds unnecessary wear to other components, so be sure the checking is properly secure.

Keep your scale grounded

Today's truck scales use sophisticated electronics to communicate weight data to the instrument. A securely grounded scale is a basic defense from lightning and power surges. Be sure that the scale is connected to the manufacturer's specified grounding system and that there are no interruptions in this system. Transient voltage seeks the easiest path to ground. If your scale isn't grounded through a

See SCALE TIPS, Page 7

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San Francisco to eliminate used clothing from landfills

The Secondary Materials and Recycled Textiles Association (SMART) lauded the city of San Francisco's effort to add used clothing to its recycling program. San Francisco officials said the program is the first of its kind to be sponsored by a major American city.

Containers labeled "SF Save Fashion" are being placed alongside existing recycling containers in more than 100 locations in major retail outlets throughout the city. Apparel, shoes, belts and household textiles will be collected and sorted by I:Collect which is also participating in the program. I:Collect is a subsidiary of SMART member company SOEX.

The materials will then be distributed to Goodwill, along with other charities and for-profit clothing recycling companies. The items will be re-used as clothing or will be re-manufactured into new products such as industrial wiping and polishing cloths, home

insulation, carpet padding and stuffing for pet bedding among many other products.

San Francisco joins several other U.S. cities that partner with private industry to collect used clothing as part of their recycling programs. More than a dozen municipalities in New Jersey partner with SMART member company Trans-Americas Trading to recycle used clothing and household textiles. United Fiber, another SMART member, launched a curbside recycling program in 2012 in the town of Queen Creek, Arizona, just outside Phoenix. And, the city of St. Paul, Minnesota encourages residents to recycle their used clothing in its curbside collection program. Items must be clean and dry and placed in a plastic bag labeled "clothing and linens."

According to the U.S. Environmental Protection Agency (EPA), more than 13 million tons of solid municipal waste is generated annually that is exclusively clothing and other household textiles. Of this amount, 2 million tons – only 15.3 percent – is recycled.

An EPA report indicates that 2 million tons of textiles are currently recycled annually – the equivalent of removing 1 million cars from America's highways. This is more than 5 times

the impact of recycled yard trimmings (170 thousand cars removed); more than 4 times the impact of glass recycling (210 thousand cars removed); more than plastic recycling (640 thousand cars removed); and is nearly equal to the impact of aluminum recycling (1.3 million cars removed).

SMART estimates that 95 percent of all clothing and household textiles can be recycled or repurposed. "Only 5 percent of all textile materials are ultimately disposed of as trash because they are either wet or are contaminated with oil, paint or some other hazardous material," said SMART president Lou Buty. "As long as the items are clean, even if they are stained or damaged, there is a recycling use for the material."



A volunteer helps sort collected textiles.

PHOTO COURTESY OF SMART



Bales of clothing slated for reuse rather than disposal.

PHOTO COURTESY OF SMART

Ecova joins Zero Waste Business Council

Ecova, an energy and sustainability management company, has become a founding member of the U.S. Zero Waste Business Council, a nonprofit that is dedicated to educating, informing and documenting the performance of zero waste businesses.

"A Zero Waste model presents a tremendous financial and environmental savings opportunity for organizations, but the journey to get there can be challenging," said Erik Makinson,

director, waste management solutions, Ecova.

Waste management has long been viewed as a necessary expense that has commanded little attention next to larger operational expenses. Over the past few years, changes within the waste industry have created significant opportunity to drive financial and environmental savings and many forward-thinking companies are aggressively moving toward a zero waste model.

"I don't like country music, but I don't mean to denigrate those who do. And for the people who like country music, denigrate means 'put down.'"

— Bob Newhart

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EQUIPMENT SPOTLIGHT

Primary Reduction Shredders

by MARY M. COX

maryc@americanrecycler.com

As costs continue to increase at landfill sites, the choice to first process materials to a smaller size continues to be more worthwhile. Primary reduction equipment is available for many materials and involving many industries.

The Dual-Shaft Shredder series offered by Granutech Saturn® Systems (GSS) is ideal for primary reduction on site, as it's available in a mobile configuration. The shredder is a fully integrated mobile solution complete with trailer, diesel engine, in-feed and discharge conveyors, a hydraulic system and controls. This provides customers with a self-contained, portable shredding solution that can travel to individual sites as needed.

"Application trends lean more and more toward mobilizing recycling equipment to the raw material source site and this mobile industrial shredder provides a perfect solution. In many cases, recycling yards have multiple clients and cannot justify the expense of moving the raw material in a partially loaded truck to a yard. Providing a mobile solution is faster, more cost efficient and better for the client too," stated Matthew Morris, vice president.



Granutech Saturn Systems

Morris said the shredder series designs include compliance with Tier IV emissions regulations – an EPA mandated requirement for diesel driven stationary or mobile equipment.

"Future trends will certainly include 'hybrid' drive mechanisms, due to the evolution of the common hydraulic and electric drives being used by a variety of manufacturers. We'll be at the leading edge of that development and we plan to introduce a new product later this year. The marriage of electronics control technologies with compact high efficiency hydraulic systems will ensure



SSI Shredding Systems, Inc.

maximum productivity with minimum operating cost. Our system will exceed current capabilities in the market for those objectives," Morris added.

GSS has designed and delivered mobile industrial shredder systems for the last 20 years for customers in municipal solid waste, waste to energy, construction and demolition (C&D) and government (including repeat sales to the Defense Logistics Agency).

The SSI Shredding Systems Pri-Max® line of primary reducers has expanded SSI's reach beyond dedicated shredding lines, into mainstream material recovery facilities. Terri Ward, market manager, said, "The combination of bi-directional cutting shafts rotating through a fixed grid or cutting table allows material to be sized large or small – which is actually easier said than done. Output as small as 6" to 8" minus is possible, as well as 18" to 24" nominal. While most shredders are simply destructive, Pri-Max has the unique ability to prepare material by opening, liberating, homogenizing and presenting it in a more optimal fashion for downstream sorting and recovery, without over-processing or destroying individual components."

In addition to being used at the front end of municipal

solid waste-to-refuse derived fuel facilities or C&D sorting systems, Pri-Max units are also used as primary reducers, bag breakers and liberators in single-stream material recovery facilities (MRF) and commercial waste MRFs. They're also used as bale breakers, processing everything from commingled recyclables and mixed plastics to used beverage containers and paper. These processing lines range from a relatively small scale 10 tons per hour to over 100 tons per hour.

With 4 models ranging from 200 to 500 hp (electric), each Pri-Max has 2 independent shafts driven by a unique, high-efficiency hydraulic power unit that responds to actual operating conditions by increasing pressure when maximum torque is required. In any case, shafts run up to 60 rpm to deliver maximum capacity. Large hoppers to 20 cu. yds. or more allow direct loading of heavy and bulky objects in true dump and run fashion.

SSI low speed, high-torque shredders have been used in primary reduc-



Weima America, Inc.

tion applications for over 30 years. "High shear forces, long wear cycles and tramp-metal tolerance have always made low-speed shredders good candidates for primary shredding of a wide variety of unsorted, commingled materials," Ward commented.

Weima recognizes that requirements vary for each recycling operation. "We will recommend a shredder that will work best for the specific needs of our client. For processing a high volume of waste, we generally recommend the Weima

See SPOTLIGHT, Page 5



Vecoplan, LLC

Manufacturer List

American Pulverizer

James Holder
314-781-6100
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Badger Shredding

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Spotlight

■Continued from Page 4

PowerLine. This machine is large, making it possible to shred a wide range of materials. The rotor is robust in its design and can handle abrasive and inconsistent material flow, including 'uncrushable' items," Madison Burt, vice president, sales, stated. The PowerLine is available with a compact or hydraulic drive as add-on options. These features make it possible to maintain high production rates when material streams vary. The machine also comes with hydraulic access to the rotor and bed knives for preventative maintenance and routine cleaning.

Burt also noted, "Weima has been in the shredding and size reduction industry for more than 25 years, and we have been a part of the waste-to-energy sector for at least 15 of those years. We serve many other industries as well – paper, plastic, wood and more."

In their VVZ and VNZ product series, Vecoplan offers a wide range of primary reduction shredders for a broad spectrum of applications. Both product lines feature models with dual cutting rotors, engineered to process large volumes of bulky waste, constructed for durability under extreme application conditions, and designed for quick and easy maintenance.

Six models are available in the VVZ series of Hurricane primary reduction shredders and the smallest, VVZ 210, has a 67" x 83" infeed opening, and features dual 28" diameter cutting rotors. Each rotor is embedded with up to 20 cutting teeth and is driven by a 200 to 250 hp motor. The largest shredder, VVZ 310T, has a 67" x 122" in feed opening, and also features dual 28" cutting rotors. Each rotor is embedded with up to 22 cutting teeth and driven by a Vecoplan HiTorc 300 hp motor.

Vecoplan offers five models in the VNZ series of primary reduction shredders. These range from the VNZ 210 (L) to the VNZ 300. The VNZ 210 (L) has a 49" x 83" infeed opening, twin 20" diameter cutting rotors with up to 64 cutters per rotor, and a 180 to 200 hp motor driving each rotor. The VNZ 300 has a 49" x 117" infeed opening, dual 20" diameter cutting rotors with up to 92 cutters per rotor, and a 150 to 180 hp drive motor driving each rotor. The VNZ shredders utilize two patented "U" rotors with bolt on replaceable cutters and feature the exclusive Vecoplan Airspring Counter Knife. Positioned in between the dual rotors and mounted on air springs, the serrated edges of the counter knife mesh precisely with the cutting teeth on both rotors.

"This knife delivers three unique advantages over traditional shredder designs. First, it provides a smaller, much more consistent particle size. Second, it can be quickly and easily replaced when worn, eliminating costly, time consuming resurfacing. Third, the air springs impact absorption to minimize damage from foreign objects. Proximity switches on the springs shut down the machine to eliminate any further damage until the foreign object is removed," explained Kim James, marketing/communications director.

Vecoplan was founded in 1969 as a manufacturer of innovative, high quality wood chippers. The company has a global array of agencies and there are over 10,000 Vecoplan machines and systems in operation throughout the world.

Garbageman's Invitational raises funds for EREF charity

The Garbageman's Invitational Golf Tournament and Social Event was founded in 2010 by Kerry Holmes (vice president of sales, Consolidated Fabricators), Mike Melideo (owner, Consolidated Fabricators) and Ray Burke (vice president, Clean Energy). These three men set out to create a unique annual networking event for their customers and prospects in the solid waste and recycling industry throughout the U.S. and Canada. The 2014 Garbageman's Invitational will be held April 9–11 at the Pechanga Resort & Casino in Temecula, California.

The sponsors of the Garbageman's Invitational felt strongly that there should be an element of "giving back" to the industry. The Environmental Research & Education Foundation (EREF) was an easy choice as the charity to benefit from the event. EREF, with its presence throughout North America, is well aligned with the Garbageman's Invitational's goal to attract more industry leaders throughout the U.S. and Canada.

The Garbageman's Invitational is sponsored by multiple suppliers in the industry, each of whom is in attendance. The three primary sponsors for this year's event are Consolidated Fabricators, Clean Energy and Rehrig Pacific.

The support sponsors are comprised of a limited amount of non-competing suppliers that include Container Pros, Amrep, Inc., Solid Waste Insurance Managers, Sloan & Vasquez Consulting Group, Westhoff, Cone & Holmstedt, Impact Plastics, Rush Refuse Systems, Can Do Services, Agility Fuel Systems and Newport Environmental.

The invitation-only tournament includes solid waste and recycling company owners and executives including independent private haulers, regional and national haulers, and municipalities. The event has grown since its inception and the event is rapidly becoming known throughout the United States and Canada.

The Garbageman's Invitational is meant to bring industry leaders together for two days of golf and social events. It is spouse friendly and one of the highlights is the opening night reception/dinner at the ranch of Cole & Tracy Burr of Burrtec Waste Industries, Inc. The ranch features a spectacular replica of an old western town on the ranch property that is called BlackWater.

For additional information, view this article on www.AmericanRecycler.com.

AR EQUIPMENT SPOTLIGHT

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A Closer Look

by Donna Currie

Turbo Haul

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Kevin Daly's recycling started at an early age. "I grew up poor," he said, so he and his three brothers would go to the local parks to look for cans and bottles to they could sell.

Since Daly was the smallest, his brothers would hold him by his ankles while he hung upside down "fishing out cans and bottles" from the trash bins. "It gave me a fever for recycling," he said.

When he was in college, he was looking for ways to make money. "I bought a VW bus," he said, and saw that there were always notes on the college message boards looking for help with moving and hauling. Not only did he provide labor and transportation, but he also started recycling cardboard and other materials he picked up.

That's when he realized there was a real need for bulk hauling. When he was a senior in college, he put together a business plan with a college friend, Dell Kelley, who is now his business partner. They started Turbo Haul with a computer that Daly bought with a credit card. "That's all we had, really," he said.

When there was material that needed to be picked up, Daly said, "We rented and returned U-Haul trucks until we could afford to buy a used truck." From that start, the business grew. Now there are 35 full time employees, and 10 part time.

"We pride ourselves on the fact that they're all actual employees," Daly said, and that those employees can earn their keep and support their families. "I like developing my people," he said, "teaching them skills, watching them learn."

While many of the jobs at Turbo Haul are entry level positions, Daly said that he has many employees who started with the company when they were 18 years old and are still working there now that they're in their 30s.

The company picks up all sorts of non-hazardous bulk material that "doesn't fit nicely in the solid waste stream." That includes old furniture, construction debris, tires, scrap metal, appliances, and wooden crates and pallets.

A small crew accompanies the driver to pick up less-than-truckload quantities from commercial properties like malls, condos and industrial complexes as well as from construction sites, government facilities and residential areas.

But sometimes there are odd items and even some surprises. One of the more unusual items the company was asked to pick up was two tons of blueberry syrup from a bakery that has closed. Another time, they picked up six tons of frozen crabmeat from a wreck on the highway.

The most unusual, though, was when they had "the unfortunate experience of unearthing a skeleton." Just like on TV, police showed up, crime scene tape went up, and investigations ensued. "My guys were freaking out," Daly said.

Most days are not that exciting, and some of the truckloads go directly to area recyclers, while others are brought back to Daly's 3.5 acre facility for sorting and condensing for shipment to appropriate recycling facilities. In the 50 mile radius that Turbo Haul covers, Daly said there are at least 8 scrap yards where material can be delivered.

The material in all the loads that are picked up are documented, so that customers who are required to report their recycling have that information. Daly supplies those reports to his customers at no charge.

Daly said that one of his biggest challenges is the proliferation of unlicensed peddlers who drive around and pick up recyclables from the same places Turbo Haul does. He said that there are probably 10 times the number of peddlers there were 5 years ago.

Not only are businesses losing out of revenue that they'd be getting from legitimate haulers, they're also unable to report that the material has been recycled. "You can't report what you can't track," Daly said.

Turbo Haul displays its professionalism by having employees wear uniforms, and Daly said that it also helps those employees get respect on the job since they look neat, clean and businesslike.

But the company is also fun and quirky, as witnessed by the trademarked mascot, Turboman, who appears on the website and company equipment. The character sends the message that pickups are fast, and Daly said that pickups are often done on the day the call comes in and if not, by the end of the next business day.

Looking forward, Daly hopes to be able to franchise the company concept nationwide. "We already have a franchisee in North Carolina," he said. Turbo Haul fills a unique niche, so he thinks it should fit well in many different marketplaces. "We want our franchisees to make real money and build a real business," he said.

Despite Daly's business plans, he still has the essence of that kid hanging upside down to grab the recyclables. He said, "I am seldom happier than in a pile of trash, sorting recyclables."

Scholarships for solid waste research available

The Environmental Research and Education Foundation (EREF) disclosed that scholarship applications for the 2014-2015 academic year are now available. The application deadline is April 18, 2014.

Applications will be considered from those who:

- Will be this year or are now a full-time master's student, doctoral student or post-doctoral researcher, and

- Have a clearly demonstrated interest in solid waste management research.

Scholarships recognize graduate students pursuing excellence in solid waste management research and education. Recipients are chosen based on credentials and potential contributions to the solid waste industry and its scientific community.

Awards are based on:

- Academic performance;
- Professional experience;
- Relevance of one's work to the advancement of solid waste management science; and,
- Potential for success

Award amounts consider the cost of tuition at the recipient's institution and any other funds received. Full scholarships may not be awarded to students who will be receiving full-tuition schol-

arships from other sources (excluding direct university assistance such as tuition remission or assistantship income) but may still be considered for partial awards.

Doctoral and post-doctoral scholarships are awarded up to a maximum of \$12,000 per year and paid monthly. Doctoral/post-doctoral scholarships are renewable each year to a maximum of three years from the initial award date. Master's scholarships are awarded up to a maximum of \$5,000 per year and renewable each year to a maximum of 2 years from the initial award date. Scholarship renewal is dependent upon satisfactory progress as determined by the student's academic advisor.

All qualified candidates will be considered for scholarships without regard to race, religion, national or ethnic origin, citizenship or disability. Applications from students outside the United States or studying abroad will receive equal consideration. Award decisions by the EREF and its directors are final and not subject to appeal.

For additional information, view this article on www.AmericanRecycler.com.

Pennsylvania DEP fines Halliburton for waste violations

The Department of Environmental Protection (DEP) is fining Halliburton Energy Services \$1.8 million for 255 violations of the Solid Waste Management Act between 1999 and 2011.

DEP became aware of the violations in 2011 during an inspection of the facility, and further investigation revealed violations dating back to 1999.

The violations occurred when the company, at its Homer City facility in Indiana County, stored, treated and transported waste hydrochloric acid without obtaining proper permits from DEP.

During the 12 year time period, Halliburton transported acidic waste, which had originated from various gas well sites, without identifying the waste as "haz-

ardous waste," without proper hazardous waste trucking records and without using a licensed hazardous waste transporter. In addition, the company sent the hazardous waste to an unauthorized treatment and disposal operation.

While there is no evidence that Halliburton's handling of the hazardous waste caused any actual harm to the public or the environment; Halliburton violated state regulations governing the handling, storage, transport and disposal of hazardous waste on hundreds of occasions.

The Consent Assessment of Civil Penalty (CACAP) which assesses the fine was signed by DEP and the company on February 7. By signing the CACAP, the company agreed not to appeal the penalty.

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Scale tips

■Continued from Page 2

ground rod connection, it surely is grounded through other components. Disrupting the ground connection shunts power surges to other places, like your load cells or electronics. Damaged electronics can cost thousands of dollars in repairs.

Monitor your scale's use

You probably don't have the time to monitor how fast traffic enters and exits the scale. However, keep in mind that while the scale is designed to slightly move with traffic, abusive and aggressive entrance and exiting of traffic accelerates wear. Again, taxing the scale means more wear and more dollars spent in repairs.

Many scale manufacturers offer accessories to promote traffic discipline while entering and exiting your scale. Traffic signals and guide post kits at the approach and exit can manage traffic flow and truck speed very effectively for a small investment.

Install accessories where necessary

Consider the accessories below, developed

from real-world experience, to prevent issues with your truck scale altogether.

Riser plates – Riser plates elevate your weighbridge, reducing the risk of debris accumulation and providing clearance for cleaning and inspection.

Load cell boots – Exposed to debris, weather, moisture and even product that has migrated below the deck, your load cells operate in the worst environment possible. Load cell boots act like a protective glove and prevent debris from interfering with proper load cell operation.

Steel and EPDM rubber belting – At each end of your scale, there is a small gap between the scale and foundation. This gap is a great place for dirt, debris and product to fall under the scale and accumulate. Installing T-belting along this gap between the scale and foundation wall is a good step to preventing this accumulation.

Conclusion

In the end, how you implement these best practices is up to you. You can partner with a qualified service provider to manage these tasks, or you can go it alone. One thing is certain – neglecting your scale costs you profit.

Progressive Waste acquires interest in TerraCycle Canada

Progressive Waste Solutions Ltd. has acquired a 19.9 percent interest in TerraCycle Canada. TerraCycle Canada collects and recycles pre- and post-consumer waste streams ranging from cigarette butts to coffee capsules to drink pouches – that are otherwise sent to landfill or incinerated. The companies are beginning to cooperate on a range of recycling initiatives throughout Canada to bring more recycling options to Progressive Waste Solutions' commercial, governmental and residential customers.

Joseph Quarin, president and chief executive officer of Progressive Waste Solutions, commented, "We expect that this partnership will enhance the range of recycling options Progressive Waste Solutions can offer its customers."

This partnership will include Progressive Waste Solutions offering TerraCycle's recycling services in many of their contract bids – thereby providing Progressive Waste Solutions customers with options

for recycling otherwise non-recyclable waste streams.

TerraCycle Canada already operates a significant network of individuals and organizations across Canada. Through the corporate sponsorship of companies such as Maple Leaf Foods®, Mr. Christie's®, Nespresso® and Garnier®, TerraCycle runs free recycling fundraisers at over 20,000 schools and community groups across Canada. In addition, TerraCycle partners with retailers such as London Drugs and Staples Canada to collect waste at their store locations and with the City of Vancouver to collect cigarette butts in recycling receptacles installed across the city.

Globally, TerraCycle has repurposed more than 2.6 billion pieces of food and beverage, office and school supply, personal care and beauty packaging and other hard to recycle waste streams such as cigarette butts. These collections helped raise more than \$8 million dollars to charity.

Landfilling

■Continued from Page 1

would continue to expand strongly, rather than staying flat or even declining. So it seems that one effect of the moderation of waste would be to extend the lifespans of existing landfills.

According to Kneiss, that's happening. "Recycling, composting and other changes in waste management have clearly extended existing landfill lifespan," she said. "We do not have specific data on the extent, but anecdotal evidence shows fewer new facilities being

sited and delays in opening new cells at permitted facilities."

Don't look for landfills to go away, or for new landfills to stop being sited and built, however. "Additional landfills will always be in the mix," Kneiss said. "Even though landfilling is declining, we continue to landfill more than 135 million tons of MSW and a large amount of C&D and industrial non-hazardous waste. America will need disposal capacity for a long period of time."

One thing observers can expect to see is a more diverse look to the waste management industry. At one time, it was all about landfilling, but no more.

"Solid waste management companies are increasingly involved in all aspects of materials management and are continuing to seek innovations in waste management, including recycling, composting and anaerobic digestion and are working with customers on better management of their waste streams," Kneiss said. Organic waste is one area seeing a lot of activity today.

A look at the recent past of the solid waste and recycling industry suggests that current levels of waste generation will continue to stagnate or decline, while recycling is almost certain to

increase. That's going to mean yet more change for members of those fields.

"In a market economy, companies evolve to meet the needs of their customers," Kneiss said. "The waste and recycling industry will continue to meet this challenge. And they will continue to look for opportunities to address the challenges in recycling, including getting a handle on the fluctuating economics, finding new markets for recycled material, educating consumers about putting only the right materials in the stream, meeting customer demands and ensuring high quality products."

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