

Waste Management 2017 Annual Recycling Report and Current Trends

The background of the slide is a decorative geometric pattern composed of various shades of green and yellow triangles. The triangles are arranged in a grid-like fashion, with some triangles pointing upwards and others downwards, creating a complex, tessellated effect. The colors range from light yellow-green to dark forest green.

Commerce City

Anthony Howard
Public Sector
Solutions Manager



PROMOTING RECYCLING IN COMMERCE CITY IN 2017

- PILOT PROGRAM
- ANNUAL MAILER
- COMMUNITY ENGAGEMENT



Addressing Contamination in Target Areas with Cart Tagging Pilot

Follow these simple rules to ensure you are putting the right items in your recycling cart.

Siga estas reglas sencillas para asegurarse de que coloca los artículos correctos en el carrito de reciclaje:

1



Recycle all empty bottles, cans and paper.

Recicla todas las botellas, latas vacías y todos los papeles.

2



No food or liquids in recycling.

No tires comida o líquidos en el reciclaje.

3



Keep plastic bags out.

NO BAGGED RECYCLABLES.

NO COLOQUES BOLSAS DE PLÁSTICO en el reciclaje (sueltas o llenas de artículos reciclables)

Help keep Commerce City clean & green by recycling right!

Ayuda a mantener Commerce City limpia y verde efectuando correctamente el reciclaje

Empty recyclables directly into your recycling cart - do not bag recyclables!

Take any loose plastic bags to a local retailer to recycle.

¡Vacíe los materiales reciclables directamente en su carro de reciclaje - no empaque los materiales reciclables!
Lleve las bolsas sobrantes a cualquier tienda de su localidad para su reciclaje.



**RECYCLE OFTEN.
RECYCLE RIGHT.**

For more information, visit RecycleOftenRecycleRight.com
Por información adicional, visita RecycleOftenRecycleRight.com
(sitio de web en inglés)



Annual Mailer

Communicating trash and recycling information to all residents for 2018



**BE A
CAN FAN**

2018 Commerce City Waste Management Program

Trash and Recycling Made Easy

Commerce City's fully automated trash collection program provides standard trash and recycling services to all homes located in Commerce City at no additional cost. This program does not cover homes located in Unincorporated Adams County. The fully automated system reduces environmental impacts and improves neighborhood appearance while providing quality pick-up service.

Every Commerce City household is automatically provided with two 96-gallon Waste Management containers: one with a green lid for trash and one with a yellow lid for recycling. The program includes five large-item pickups per year for each household.

Follow the Game Plan

- Bag your trash, but not your recycling.
- Items beside or on top of the can will not be picked up - make sure everything fits inside the can with the lid closed.
- Put cans out for service by 7 a.m. (even if your truck normally picks up later in the day).

Have Questions?

Go online to c3gov.com/trash to find:

- A map showing pickup days/recycling weeks in the city
- A list of accepted recyclables and recycling tips
- Special waste disposal event dates

Contact Waste Management at 800-482-6406 to:

- Order additional cans or request a different size
- Schedule large-item pickups
- Report damaged cans
- Ask general trash and recycling questions

Contact Commerce City at 303-289-8160 to:

- Set up service at a new home
- Confirm eligibility to participate in Commerce City's Trash and Recycling Program



Keep in Mind

Trucks will not return to collect cans that are placed out late, blocked, too close to obstructions or contain unauthorized material. Extra charges will apply for additional service.

Learn more at c3gov.com/trash



1

Commerce City Recycling Rules and 2018 Recycling Calendar



- Recycling collection occurs every other week on the same day as your trash collection.
- Find your pickup day and recycling week on the interactive map at c3gov.com/trash.
- Make sure that all recyclables fit in your recycling container with the lid shut.
- Place your recycling and trash containers at the curb between sundown on the day before collection and 7 a.m. the day of collection.



Accepted Items (Clean & Empty)



Empty Food & Beverage Cans



Empty Plastic Bottles & Containers



Empty Glass Bottles & Jars



Clean Paper



Clean Cardboard & Paperboard



Recycling is collected every other week.

Items Not Accepted*



NO Food or Liquids



NO Plastic Bags or Film



NO Clothes or Bedding



NO Foam Cups or Containers



NO Yard Waste



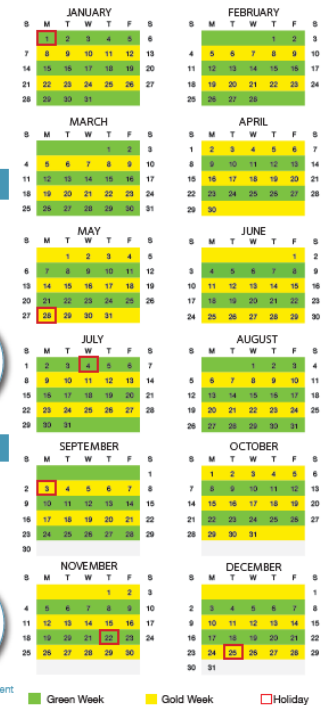
Visit c3gov.com/trash for special waste disposal event dates.

*Unacceptable items are not limited to those above. Call Waste Management at 800-482-6406 if you have any questions about what is recyclable.

Holiday Schedule Information

During a holiday week when a service day falls on a holiday or the day after, collection may be delayed by one day. The normal schedule will resume the following week.

Visit c3gov.com/trash for dates and details.



New Year's Day
Memorial Day
Independence Day
Labor Day
Thanksgiving Day
Christmas Day

Monday, January 1
 Monday, May 28
 Wednesday, July 4
 Monday, September 8
 Thursday, November 22
 Tuesday, December 25





COMMUNITY OUTREACH

Touch-a-truck at Public Works
Outreach at Pioneer Park





Waste Management is committed to a green future, together.

2017 Environmental Impact

In Colorado, we recycled 174,420 tons of bottles, cans, paper and cardboard.



were offset by recycling.



saved by recycling.



by our local landfill
gas-to-energy efforts.



saved by recycling.

COMPRESSED NATURAL GAS (CNG) TRUCKS

Our CNG fleet saved 1.1 million gallons of diesel fuel and cut greenhouse gas emissions by 1,862 metric tons.





Overview of Recycling in the City of Commerce City

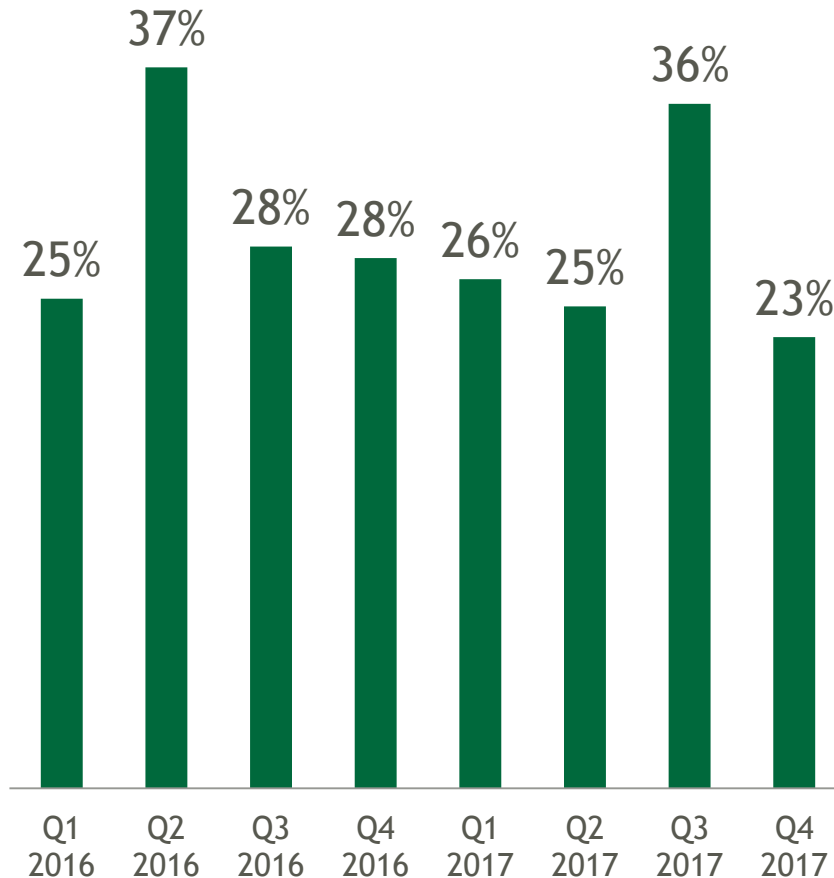




27.9% Average Contamination

Verified through 4 quarterly audits in 2017

Contamination by Quarter (since 2015)



Confidence in audit results:
85%

City of Commerce City
residents recycled 3,579.5
tons in 2017.

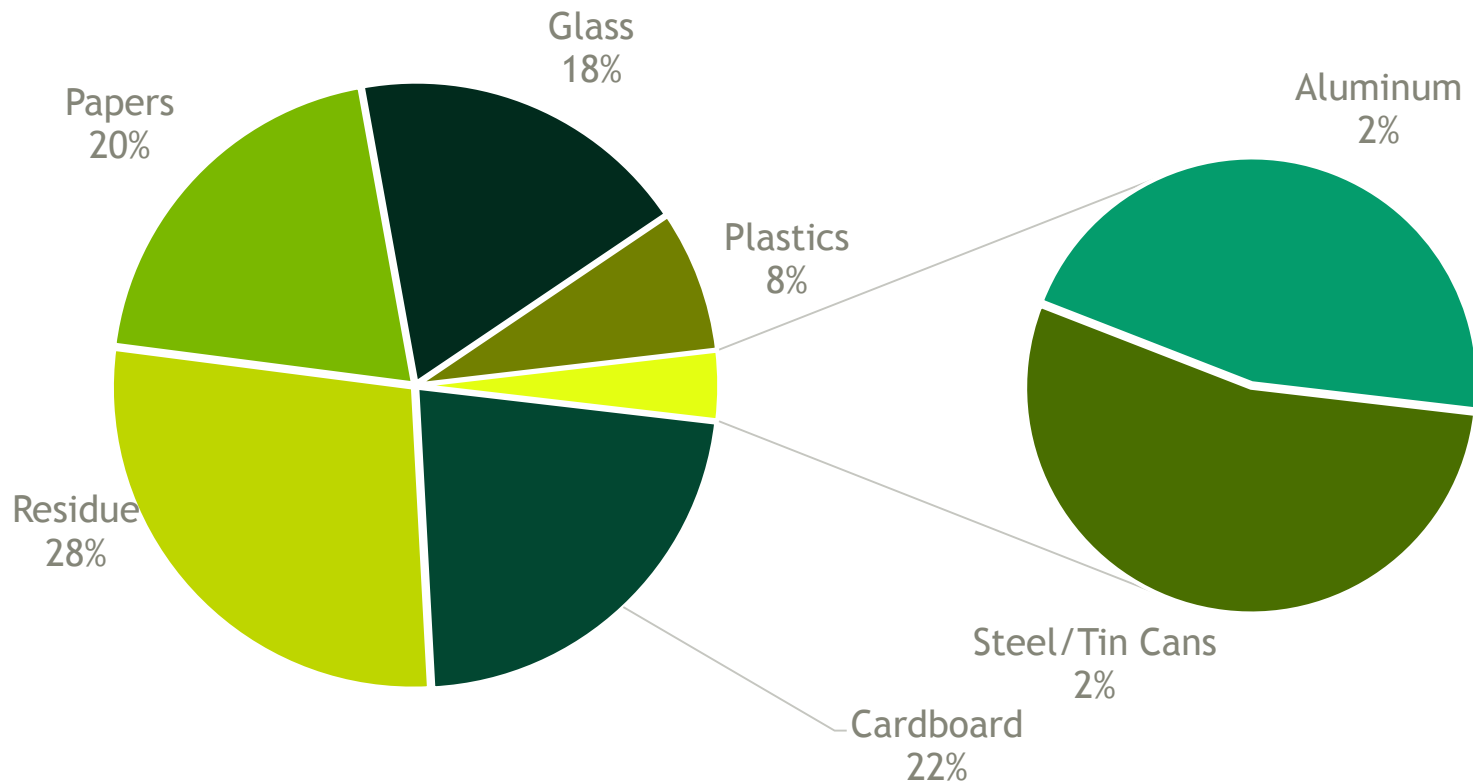
Approximately 998 tons sent to
be recycled were actually
trash. Commerce City can do
better.

WM would like to work with
you to reduce contamination.
Let's aim for 10%.



Cardboard & Contamination Dominated the Recycling Mix

Materials in Recycling Stream for 2017*



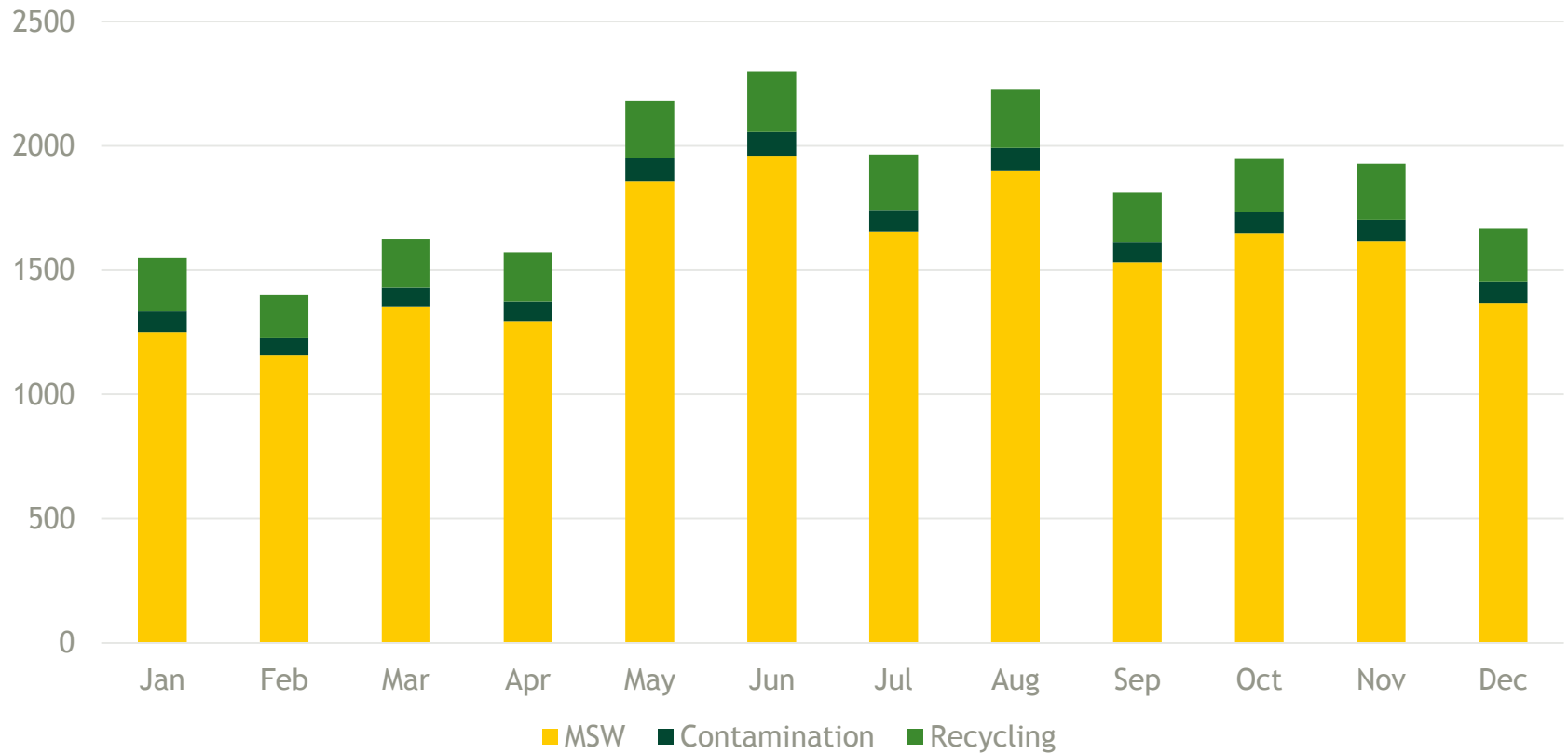
*Material makeup based on material audits in 2017



Volume Peaks in Warmer Months

Average diversion is 26%

Commerce City Residential Material Discarded 2017

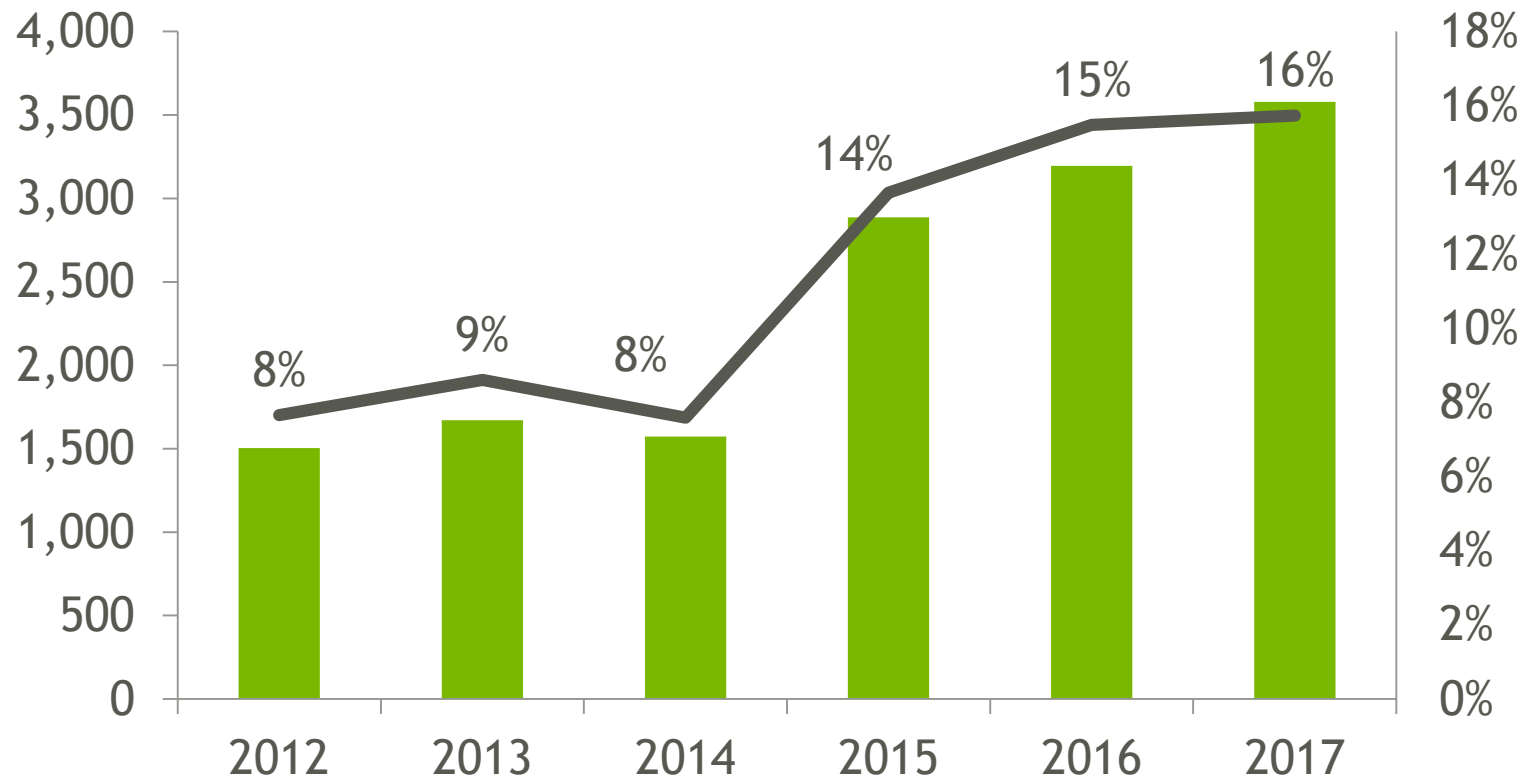




Tons Recycled Increase Annually

Recycling carts led to increase in recycling since 2015

Residential Annual Diversion
(Tons, % of Total)





Recycling Impacts



Diverse Benefits Created

Recycling 2,580.8 tons in 2017 saved:



Enough
electricity to
power 530
homes for a year



Water to meet
daily fresh water
needs of 149,925
people



20,112 mature
trees



NOTE: 28% average contamination rate in 2017. Of the 3,579.5 tons sent to recycling facility, 998.7 tons were trash and 2,280.8 tons were recycling



Reducing Emissions for Cleaner Air

Commerce City residents recycled 14,407 tons since 2012.

That's equal to conserving
over 31,687 metric tons of
CO₂ equivalent.

As calculated by the US EPA WARM Model

NOTE: Contamination not factored into calculation. 31% average contamination rate since 2012. Of the 14,407 tons sent to recycling facility, we assume 4,466 tons were trash and 9,901 tons were recycling





14,407 tons of material is...

...enough to
fill almost
10 hot air
balloons.

... or enough
fill almost 9
Olympic
swimming
pools.

NOTE: Contamination not factored into calculation. 31% average contamination rate since 2012. Of the 14,407 tons sent to recycling facility, we assume 4,466 tons were trash and 9,901 tons were recycling



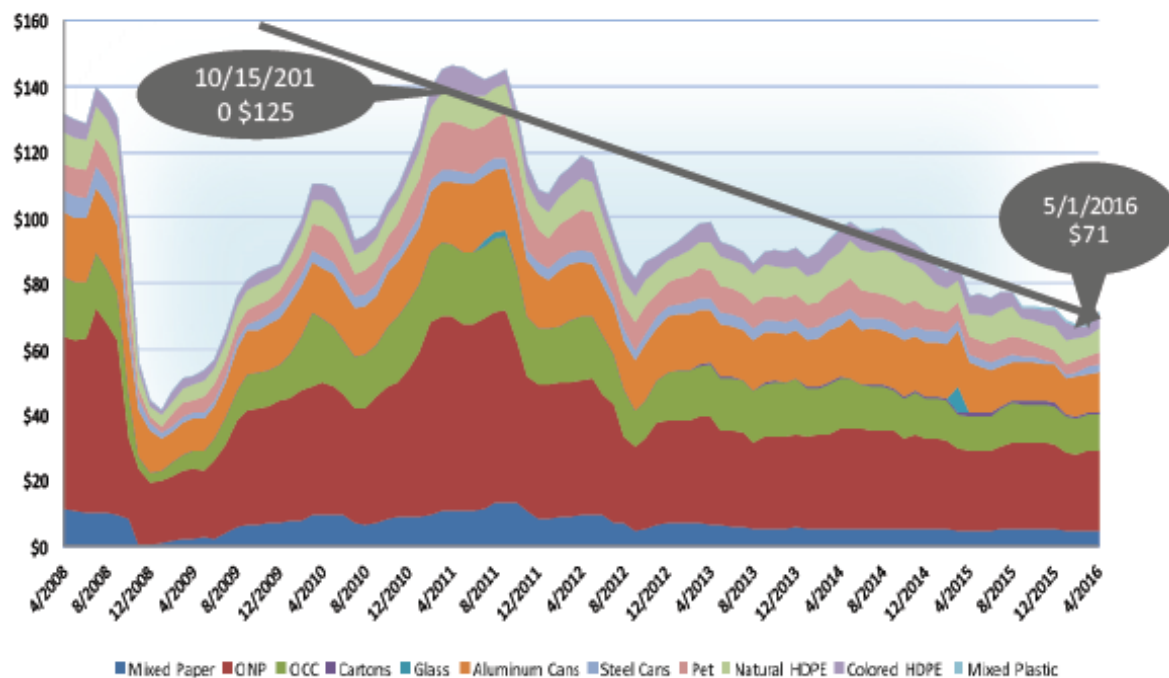


Why Is Reducing Contamination Important?

State of Recycling

Commodity prices

- Almost 45% lower than they were at their peak five years ago.
- While they have stabilized, they are not expected to improve dramatically in the near future.
- Paper, plastics and metals markets are all low for various reasons beyond our control.





Changes to China's Import Policies

Ban of all Mixed Paper and Mixed Plastics

The Ministry of Environmental Protection of the People's Republic of China (MEP) imposed a ban on the import of 24 recyclable commodities, including “unsorted mixed paper” and “mixed plastics” effective January 1, 2018.

Reduction of Contamination Threshold to .5%

On January 11, 2018, China finalized its contamination standard limiting contamination for any imports **from 5% to less than 0.5%.**

If the 0.5% rule is strictly enforced then no OCC or residential bulk grade materials can be shipped to China!

.5% = 10 pounds of contamination
in a ton of recyclables
(China threshold)

22% = 440 pounds of
contamination
(Village current levels)

Suspension of all New License Approvals

They began limiting the flow of material last May by restricting the issuance of required import licenses to mills. We expect ongoing volatility in the approval of import licenses in 2018.



Global Impacts

- China is largest importer of recyclables in the world.
 - Chinese Government import restrictions have implications to all countries with recycling programs. The US and the EU were the largest importers of paper grades into China.
- China is the single largest consumer of recyclable materials generated in North America.
 - One-third of all scrap material collected in the U.S. is shipped overseas, with the large majority of this material going to China.
 - In 2016, the US exported \$5.6 billion in scrap commodities to China



Impact of Contamination

Here's what's happening...

-More contamination = Increased Labor Costs

- Locally, the MRF has had to add extra people per shift, and the sorting process has been slowed down.

-More contamination = Less Recycling Materials per Load

- We must pay to dispose of contaminated recycling as trash
- This is likely to increase as commodity prices continue to fall
- Reducing contamination can help offset some of these increases



Recycling Industry Trends

- Uncertainty and volatility are expected to continue into 2018 & 2019
- WM continues to move commodities, although at lower prices and to a broad variety of customers across the globe
 - Our primary goal is to move material - avoiding landfilling/warehousing
- Quality rules
 - With supply exceeding demand, all buyers will demand the highest quality
 - We are working to improve inbound quality to reduce our cost





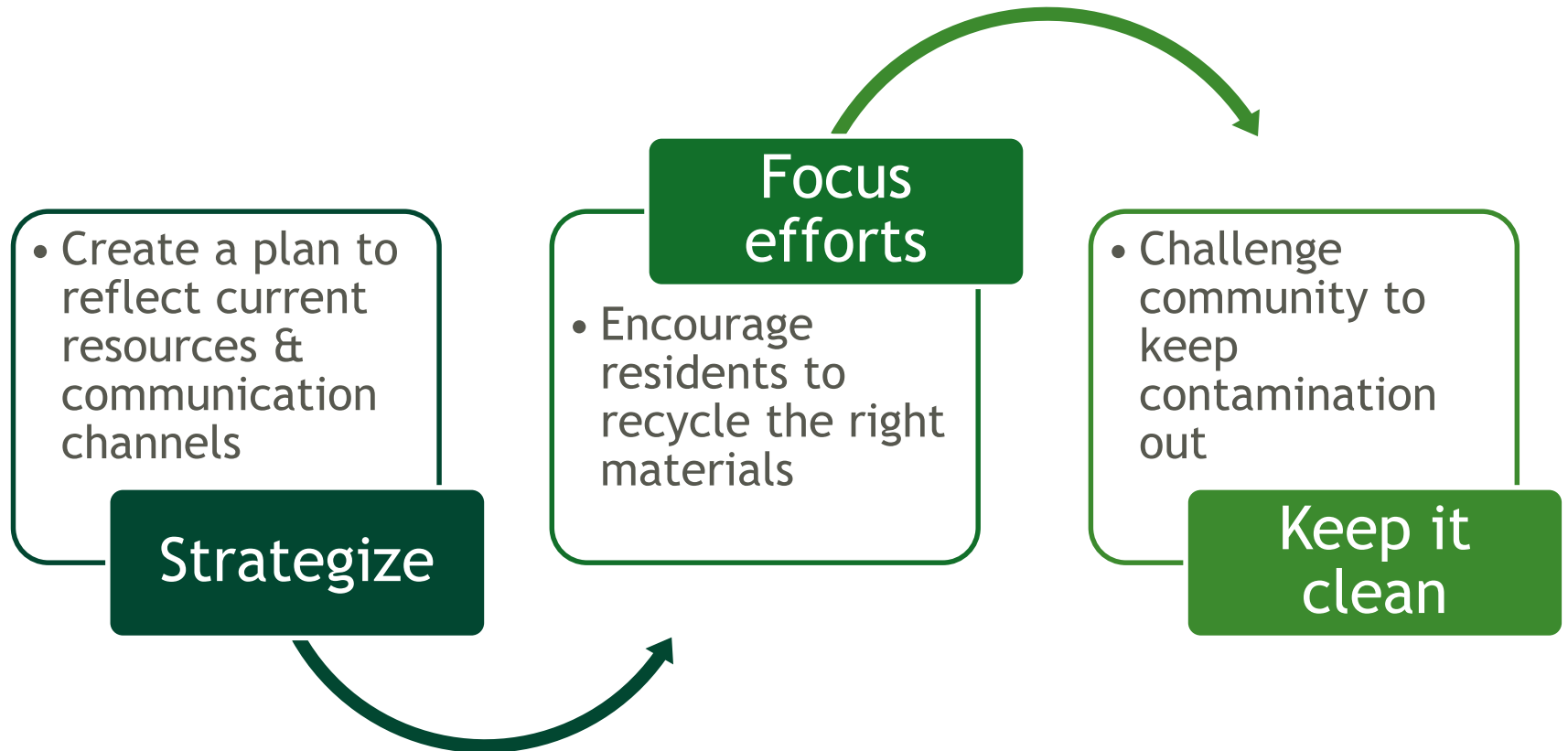
Inspiration for Your Community





The 2018 Challenge

Let's work together to encourage the right recycling habits!





Recycling Right, Every Time

Educate and inspire residents easily



RECYCLE OFTEN.
RECYCLE RIGHT.

Myths

Resources

Get Started

Newsroom

Social



Recycle all my empty
bottles, cans, and paper.



Keep foods and liquids
out of my recycling.



Keep plastic bags out of
my recycling.

Free material to download, distribute, and raise awareness of recycling basics available at RecycleOftenRecycleRight.com.





Free Marketing Tools

We Make It Simple



**RECYCLE OFTEN.
RECYCLE RIGHT.™**

WM
WASTE MANAGEMENT

Always recycle:


Empty Plastic Bottles & Containers


Empty Food & Beverage Cans


Flattened Cardboard & Paperboard


Clean Paper

Do NOT put in your recycling cart:


NO Food or Liquids


NO Plastic Bags
Do not bag recyclables.


NO Clothes or Bedding


NO Glass

RecycleOftenRecycleRight.com
2017

**RECYCLE OFTEN.
RECYCLE RIGHT.™**

WHY recycle?

**Plastic bottles**
can turn into clothing

**Aluminum cans**
can turn into new ones in 60 days

**Today's news**
can become a new cereal box

How to recycle:


**Recycle all bottles, cans and paper**

**Keep items clean and dry**

**No plastic bags**


WM
WASTE MANAGEMENT


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**RECYCLE OFTEN.
RECYCLE RIGHT.™**


WM
WASTE MANAGEMENT

Always recycle:



Plastic Bottles & Containers



Food & Beverage Cans



Paper



Cardboard & Paperboard

Do NOT include in your recycling cart:


NO Food Waste


NO Plastic Bags & Film


NO Foam Cups & Containers


NO Needles

To Learn More Visit:
RecycleOftenRecycleRight.com
#RORR

RecycleOftenRecycleRight.com





Easy to Share, Easy to Inspire

Pre-made material for social media



Let's sort this out. #Recycling101 <http://rorr.com> pic.
twitter.com/qUbV1mQEDG

Tweet This



Answer

Yes. Clean pizza boxes (without food or paper liners) are acceptable. At one point, these were made with a wax coating that prevented recycling.

#Recycling101 Quiz: Can pizza boxes go in your curbside bin?
Learn more via @WasteManagement <http://rorr.com>

Tweet This

Thank you for being a
loyal Waste Management
customer. We appreciate you!





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