

RUMPKA



Recognizing private company success

Expansion of Plastic Recycling

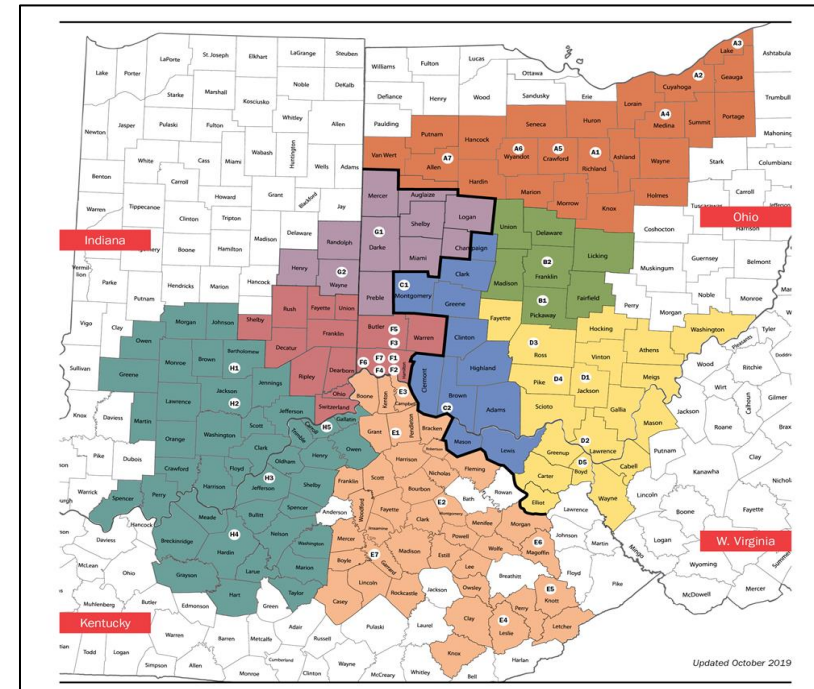
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April 8, 2021

About Rumpke ...

Approach to Recycling is Market-based

Rumpke today

- Balanced approach with 3600 employees, 14 landfills and 12 recycling facilities
- Must respond to our customer's demand for a circular materials economy
- Moved us into glass, scrap tire recycling & commercial MSW recovery as examples
- As we expand our plastic recycling efforts in Ohio, the same market-based approach applies



What makes recycling successful ?

From the Processor's Perspective ...

Sustainable Long-Term Markets

- Actual demand as a raw material
- Multiple consumers of the item
- Can the item be incorporated into existing collection system
- Can the item be effectively separated in the recycling process into a marketable form

Good Example



- Carton Council and Tetra-Pak introduced program
- Provided markets & grant
- In 2011, received \$420k matching grant for Columbus MRF
- Offered aseptic recycling to 1.91M population base

Expansion of Plastic Recycling – WHY NOW?

Rumpke accepts #5 Polypropylene containers

Recycle These

PAPER



Cardboard should fit inside cart.

GLASS BOTTLES & JARS



Any color.

PLASTIC BOTTLES, JUGS & TUBS



Reattach lid. Yogurt and fruit cups OK.

METAL CANS



Non-hazardous, non-flammable material only.

CARTONS



Remove caps and straws.

DON'T RECYCLE

- Plastic bags
- Hazardous material such as batteries
- Tangles such as clothing, dog leashes & garden hoses
- Scrap metal, including pots & pans

Visit www.rumpke.com to learn more about our recycling program. Visit your local Solid Waste District to find where you can dispose of hazardous material.

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We at Rumpke are always looking for long-term sustainable markets. Polypropylene came to the forefront for several reasons.

- PP is the most commonly used plastic in the US.
- Packaging companies are demanding Post Consumer Resin in their products
- Technology has been developed to make PP resin odorless and colorless so it can be put into more products and not just used as a filler or put into park benches. Demand is up!
- Dollars became available to help with infrastructure to get the material segregated out of the stream.

Expansion of Plastic Recycling – First Steps

Rumpke accepts #5 Polypropylene containers



- Rumpke services 1.7 million customers in the tri-state area.
- Most of the material comes to a Rumpke facility for sorting
- Our recycling partners in areas we don't have plants blend the PP into a 3-7 grade to be sorted again at a PRF (Plastics Recovery Facility)
- Our analysis showed that we already had 256 PP containers per minute coming through our system.
- Equipment designed to handle current amount of PP coming through the line as well as expected new volume. Wanted the equipment to produce a quality product to take to market.

Expansion of Plastic Recycling

Cincinnati MRF to add Robotic Separation



- The project is being funded through the Recycling Partnership grant and Rumpke capital for a total of 1.6MM.
- New conveyors are being installed along with 3 robots to positive sort the PP off the line.
- Machinex Samurai robots will be installed in our Cincinnati MRF in May for a mid-June start-up.
- We have put a pick station in our Columbus MRF to hand sort the PP.



Expansion of Plastic Recycling

Rumpke accepts #5 Polypropylene containers



Milestone for Rumpke

- Polypropylene container questions far exceed any other material
- Sorting technology now available to effectively sort PP containers
- Market makers like PureCycle give confidence sustainable markets
- Next step - Educating our customers