



WI DNR

MRF Stakeholder Group

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Overview of Today's Presentation:

1. WM Corporate: Recycling

2. Germantown MRF Retrofit

2. Lithium Batteries

-National NWRA Resource Recycling Systems
(RRS 2023 Study)

-Illinois Legislation

**3. Contamination/Problem Materials at
WM Germantown**

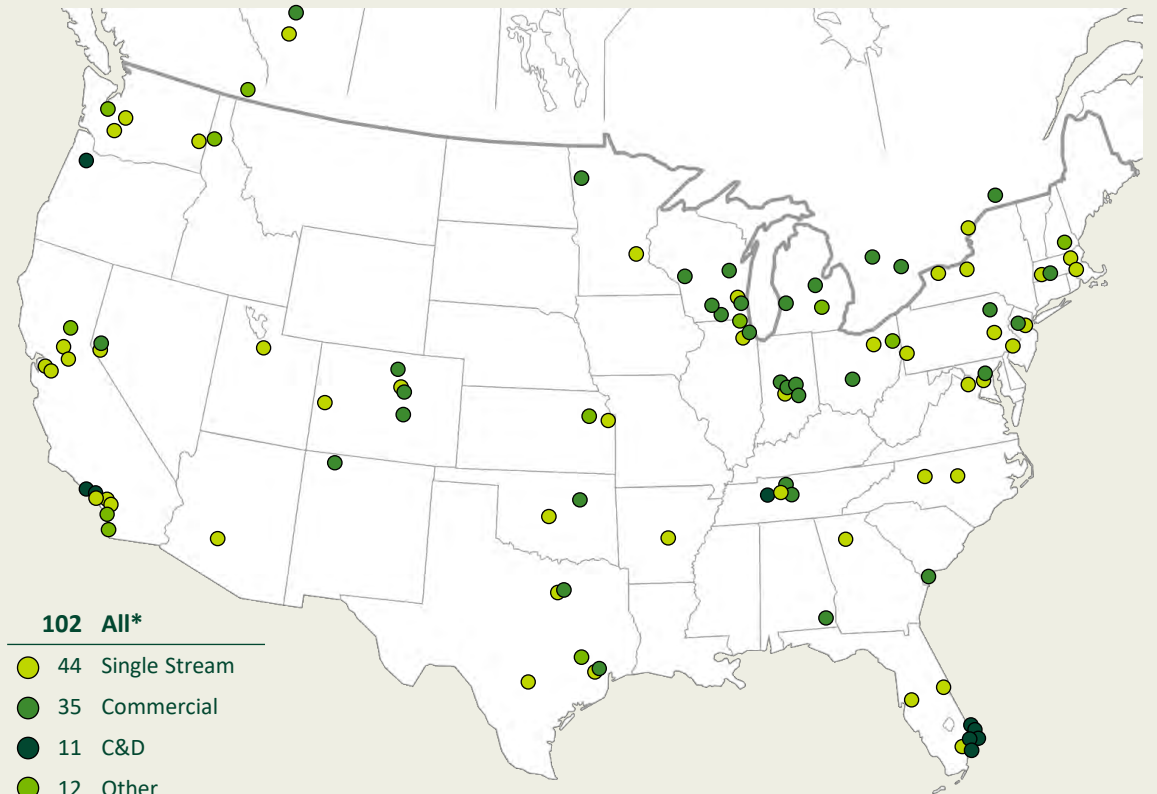
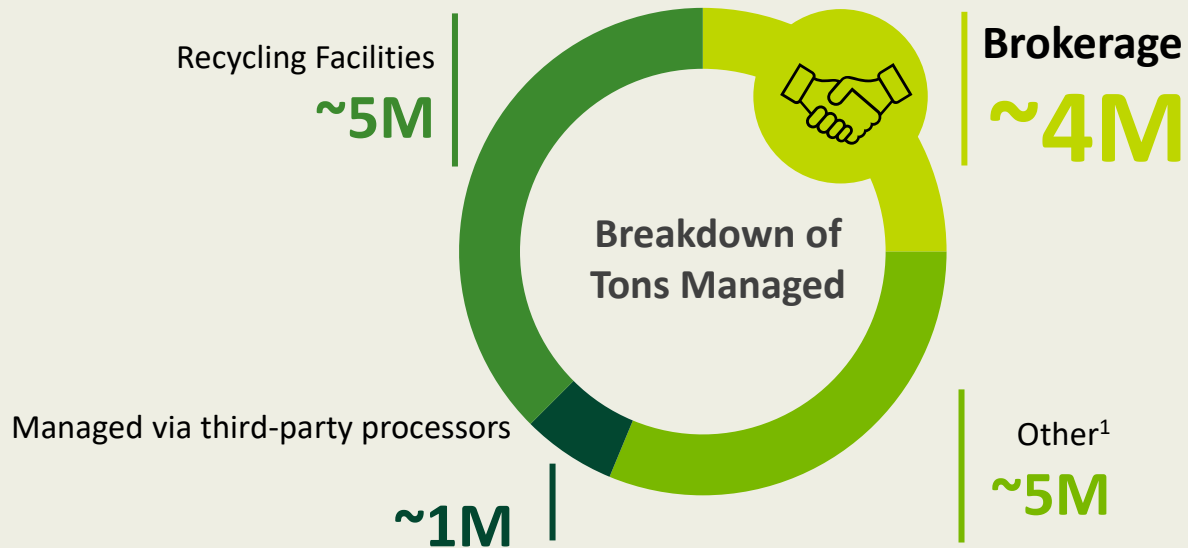


WM is the Largest Recycler in North America

15.2M tons of material recovered in 2023

Our Recycling Facilities Process 5M Tons²

Providing Critical Solutions for Key End-Market Users



¹ Other includes fly ash, construction & demolition wood, e-waste and other specialty materials.

² All data based on tons in 2023.

* Not included in map is facility in Netherlands



State-of-the-Art Recycling Facility Overview



State-of-the-Art Recycling Facilities Expected to Accomplish the Following:

- **Increase** capacity/throughput
- **Reduce** labor costs
- **Improve** commodity recovery and material quality
- **Maximize** material values

Increasing Commodity Capture to Help Boost Revenue

Generating higher quality material from inbound feedstock

- **Fiber:** separating higher-value paper products
- **Plastics:** further separating resin types by grade/color
- **Glass:** producing higher quality 3-mix product for end-markets
- **Residue:** reducing recyclable content within residue

Germantown Retrofit

- \$36M retrofit: up to 230K TPY
- Began late Fall 2024, material diversion
- Completed January 2024
- More efficient, more material types
- Additional OS, fiber screen, film recovery system
- Performing above expectations



Germantown Retrofit

Open House: April 19

Governor Ever's visit on Earth Day 2024



Lithium Batteries

2023 National NWRA Study by RRS:

- Surveyed hundreds of MRFs
- Frequency of fires varies: weekly to monthly
- Cost of fires= \$1500 to \$50M
- Insurance rates increasing
- Deductibles Increasing
- Collection/Fleet: thousands of incidences



Lithium Batteries

Illinois Legislation:

- Model legislation for other states/Council of State Governments in July 2024
- EPR = battery manufacturers pay for the program
- Stewardship Plan/Progress Reports to DNR
- Sets up Drop Sites, Public Education
- Embedded not included
- Begins 7/1/2025 with PRO submittal of Stewardship Plan to IDEQ

Contamination/Problem Materials

Not Recyclable, Drives up Recycling Costs

Propane Tanks

Chemicals

Syringes/needles

Diapers

Bagged recyclables, time = money/cost



Need for public education from state and local level.

Thank You!