

# MATERIALS MANAGEMENT BRIEFING TO CITY COMMISSION

SEPTEMBER 24, 2024



# Purpose of the Briefing

- Introduction of Materials Management Services
- Brief History of Trash/Recycling Disposal
- Key policy and Operational considerations
- Rate Study Presentation
- Next Steps



# What is Materials Management?

- Refuse Collection and Disposal
- Recycling Collection and Disposal
- Yard Waste Collection and Disposal
- Compost Facility



#### **Cost of Service Summary**

Service Fees	Revenue Source		Expenses	%
PAYT	Rates	\$	8,200,616	41.9%
Recycling	Millage	\$	5,272,228	26.9%
Yard Waste	Rates	\$	1,706,277	8.7%
Bulk	Rates	\$	239,225	1.2%
Dumpsters	Rates	\$	212,804	1.1%
Dead Animal Collection	Millage	\$	14,036	0.1%
Illegal Dumping	Millage	\$	11,668	0.1%
Graffiti Abatement	Millage	\$	154,739	0.8%
ROW Cleanup	Millage	\$	56,642	0.3%
Street Sweeping	Millage	\$	892,033	4.6%
Neighborhood Cleanups	Millage	\$	242,123	1.2%
Special Events	Millage	\$	44,136	0.2%
Compost/Yard Waste Site	Millage/Revenue Reimbursement	\$	1,255,660	6.4%
Closed Superfund Site	Millage	\$	92,637	0.5%
Trash Reduction Program	Millage	\$	455,204	2.3%
Cart Maintenance	Rates	\$	451,532	2.3%
Forestry Support	Millage	\$	285,305	1.5%
Total Service Fees		Ś	19.586.867	100.0%

### **17 Core Activities**

#### **Enhancements:** 0

- o <u>ROW Cleanup</u>
  - Corridor Cleaning
- Neighborhood Cleanups Ο (Dumpster Days)
- Addition Cleanups
- Recycling Ο
- Scrap Metal Collection
- Textile Recycling 0
- Styrofoam Recycling

**\$ 19,586,867** 100.0%

# Refuse Collection

#### **•** Pay as You Throw

- Open market (open to the City and private haulers)
- City has ~80% of the residential market 52,500 customers)
- Customizable to the needs of each household (3 cart sizes)
- Self managed accounts (pay for service only when needed)
- Income Based Service Home Repair Services of WM (~900 customers)
- RFID Technology 98.5% to 99% accuracy
- Commercial Service (~35 customers)
- Bulk Items
- Illegal Dumping
- Dead Animal Clean-up



32 Gal.

### Disposal:

### Waste to Energy Facility

Kent County Department of Public Works





### Historical Context: Waste to Energy

- •1950s to 1973 waste material generated in the City disposed of at the City of Grand Rapids Butterworth landfill.
- •1973 1990 waste material transported to Kent County landfill.
- •1985: City entered Combustible Waste Agreement with Kent County Board of Public Works.
- •Partnership with the core six cities (Grand Rapids, Kentwood, Wyoming, Grandville, Walker and East Grand Rapids) and Kent County Board of Public Works. Each adopted ordinances that require "Flow Control" as part of the agreement with Kent County. Regardless of waste hauler, all refuse collected within the six cities is required to go the Waste To Energy facility.
- •Construction completed in 1990 and facility accepted trash at \$39.07/ton.
- •40-year agreement that expires in 2025.



## Historical Context: Waste to Energy

- •WTE tip fees steadily increased up to \$79.37/ton in 2008, primarily due to debt service, and then decreased to \$45/ton in 2013.
- •Current WTE Tip Fee increased in 2022 to \$74/ton plus a landfill legacy surcharge of \$1.68/ton.
- •Approximately 31% of material received at WTE is transported to South Kent Landfill due to overcapacity.
- •\$42 million in capital improvements currently underway at facility.
- •Sustainability Park Kent County is still considering a sustainability park built in phases, including some type of County wide "Flow Control."

# **Recycling Collection**

- Millage Funded
- No direct cost to resident
- Approximately 56,000 customers
- Challenges with contamination
- Multi-family recycling grant
  EGLE
  - Recycling Partnership
  - Prairie Robotics



### Disposal:

Material Recovery Facility

Kent County Department of Public Works RECYCLING GUIDE



**RECYCLE THESE ITEMS** 

CLEAN, EMPTY & LOOSE (NOT BAGGED OR BUNDLED)

**CARDBOARD & PAPER** 







PLASTIC BOTTLES, CUPS

& CONTAINERS

MILK, JUICE & SOUP CARTONS



**GLASS BOTTLES & JARS** 





If the cap/lid and container are the same material, keep them attached. If they're different materials, detach and recycle separately.

#### **KEEP OUT OF RECYCLING CONTAINERS!**



Have an item you'd like to recycle that's not on this guide? We can help! www.reimaginetrash.org | recycle@kentcountymi.gov | 616-632-7920





# Historical Context: Material Recovery Facility

- •2010 Established partnership agreement with Kent County thru 2030, unless terminated by either party.
- •2010 Kent County Single-Stream Material Recovery Facility (MRF) opens - \$0 tip fee
- •2016 MRF implements a recycling tip fee \$10/ton
- •2017 Tip fee increases to \$35/ton (71% increase)
- •2019 Tip fee increases to \$65/ton (46% increase)
- •2022 Tip fee increases to \$70/ton (38% increase) annual increase of approximately \$200,000

# Curbside Yard Waste and Composting

- Carts, bags, and tags
- Millage support
- Storm Debris
- o Street Sweeping
- Leaves
- Organics Collection Pilot
- Contract with WeCare Denali



# Establishing future strategy

- Conducted operational analysis in 2019-2020
- Historically, rate changes have been reactionary to changes in the market vs. based on long-term strategy & community goals
- 2024 rate adjustment based on equipment/technology & labor costs as well as forecast disposal costs for Sustainable Business Park
- Community expectations continue to increase, particularly around bulk collection, "clean community" services, yard waste and organics collection
- Rate study can be paired with operational analysis to chart future path for materials management aligned with the City's sustainability goals

# Establishing future strategy

# Key policy and operational considerations examined through the rate study:

- Current model vs. exclusive hauler for residential service
- Per-tip fee vs. more traditional monthly/quarterly billing
- Ready-to-serve charge to distribute fixed costs
- Rebalancing revenue for new/updated services
- On-Board truck technology updates
- Kent County Sustainable Business Park

# Rate Study

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## Financial Plan Process



#### SCS ENGINEERS

## Key Issues

• RFID technology expensive

• Potential 25% disposal cost increase in FY 2026

• Yard Waste and Bulk subsidized by millage

### Study Objectives



#### **Revenue Sufficiency**

Financial Policies Operations, Fleet, Hiring, etc. 10-Year Projection



Cost of Services Residential Carts Bulk and Yard Waste Dumpsters Other millage funded services



#### Rate & Fee Structure

Based on Cost of Services

Equitable Rates

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### Data

- Fund balances
- Historical Budget vs Actuals
- FY 2024 Budget
- 10-Year Capital Expenditure Program

### This data was then brought into our Revenue Sufficiency Model ...

Cash In > Cash Out Cash Flow Surplus Fund Balance Increases

SUSTAINABLE

Cash In < Cash Out Cash Flow Deficit Fund Balance Decreases

NOT SUSTAINABLE Cash Flow Analysis

#### SCS ENGINEERS

## Financial Outlook – Baseline Scenario

Rate increase of City of Grand Rapids, MI											
10.00% for Carts and Solid Waste Revenue Sufficiency Analysis											
5.75% for Bags/Tags	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Revenue Adjustment \$M	\$0.0 <b>U</b>	¢0.00	\$0.88	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Revenue Adjustment % - Carts	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Revenue Adjustment % - Bag/Tag	0.00%	0.00%	5.75%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Revenue Adjustment % - Taxes	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
64-Gallon Container (per Tip)	\$5.50	\$5.50	\$6.05	\$6.05	\$6.05	\$6.05	\$6.05	\$6.05	\$6.05	\$6.05	\$6.05
Millage	1.60	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
Fund Balance \$20.0 \$15.0		Fun	d Balance				- Minimum	Reserve Ta	r <sub>i</sub> Fur me target	nd balan ets reser t in each	ce ve year
\$10.0											
suo \$-											
Σ 22	23	24	25	26	27	28	29	30	31	32	33

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Scenario 1 Exclusive Residential Hauler

### Assumptions

- 23% increase in customer base
- 8 Full-Time Equivalent Employees (FTEs)
- 4 sideload trucks
- 12,500 additional refuse carts
- Replacement costs for new carts

## Scenario 1 – Exclusive Residential Hauler



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## Scenario 2 – Disposal Cost Increase



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# Cost of Service Analysis

- Uses results of Revenue Sufficiency Analysis
- Allocates costs to solid waste functions
- 17 functions identified

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Rate Structure Analysis

### **Benefits of PAYT**

- •Equitable way of charging customers
- Protects affordability
- Guarantees City revenue
- Provides freedom to customers
- Efficient routes

# Rate Structure Analysis

- Uses results of Cost of Service Analysis
- Compares current rates with cost to serve customers

## Residential Rate Comparison

### **Residential Collection**

Service Level	32-Gallon Refuse	64-Gallon Refuse	96-Gallon Refuse
Current			
Rate per Tip	\$3.30	\$5.50	\$7.70
Proposed			
Collection Charge	\$2.90	\$2.90	\$2.90
Disposal Charge	\$1.75	\$3.45	\$5.15
Total Proposed Rate	\$4.65	\$6.35	\$8.05
% Change	41%	15%	5%

### Monthly Residential Bill - 64 Gallon (per tip based on 4 tips per month)

City of Fort Collins, CO	\$9.28
City of Aurora, IL	\$8.32
Austin, TX	\$7.84
Grand Rapids, MI - Proposed Rate	\$6.35
Grand Rapids, MI - Current	\$5.50
Des Moines, IA	\$3.64
Lexington, KY	\$1.13
7	

#### Notes:

Austin, TX: Weekly trash, recycling and yard waste and 2 bulk collections/year; base fee of \$20.45
 City of Aurora: Charges \$2.75 per yard waste sticker
 City of Fort Collins: Receive 2 bulk pickups/year included
 Des Moines, IA: Must purchase yard bags/stickers
 Ann Arbor: Charged on the tax bill, however, charge \$44 to upgrade to 96 gallon cart

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### Other Considerations

### **Readiness to Serve Charge**

- Calculated using 50% of FY 2025 fleet costs
- 56,500 annual customers billed

#### **Readiness to Serve Charge**

FY 2025 Fleet Costs % of Costs Used for Charge	\$4,966,728 50%	
Total Fleet Costs	\$2,483,364	-
Annual Customers Billed	56,500	
Annual Cost/Customer	\$43.95	-
Monthly Cost/Customer	\$3.66	-
Collection	Ea rea m	ach customer would pay the diness to serve charge once a nonth plus lower rate per tip
Lonection		
32 Gallon Refuse	64 Gallon Refuse	96 Gallon Refuse

Service Level	32 Gallon Refuse	64 Gallon Refuse	96 Gallon Refuse
Current Rate	\$3.30	\$5.50	\$7.70
Proposed Rate	\$3.10	\$4.55	\$6.00
% Change	-6%	-17%	-22%

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Recommendations & Next Steps

### Recommendations

- City should become the exclusive hauler
- Align rates with the costs to provide services
- If the City considers a readiness to serve charge as part of its rate structure, it should consider how this charge would be billed and the costs associated with collecting this revenue.

### **Next Steps**

- Adopt selected rate plan
- Update revenue sufficiency analysis every 1-2 years
- Update the structure of rates every 3-5 years



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# Next Steps

- Continue engagement with neighborhood representatives to discuss options and alternatives for service
- Evaluate options and propose alternatives to current bag/tag programs
- Determine if a change is desired in current waste hauler model