



Best Practices

The Science of Waste & Recycling Programs



Let's Start with a little survey

How many of you are directly involved in your communities recycling program?

What other services are offered in your program?

Recycle Only, Trash, Yard Waste, Food Waste, etc.

How does the resident pay the bill?

DPW, Hauler, Authority, Millage, General Fund, etc.

What Equipment is used?

Drop-Off, 64g or 96 g Carts or 18g-Bins/Totes

Why was that program type selected?



Don't go it alone!

Use a subcommittee that includes all stakeholders.

Gov't Officials
Residents
Hauler(s)

MRF Leadership
Other Trusted Sources



Recruiting the experts to your committee

Michigan Department of Environmental Quality **DEQ**
Office of Waste Management and Radiological Protection

Recycling and Waste Minimization Specialists



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Coverage
Kalamazc

U.S. ENVIRONMENTAL PROTECTION AGENCY
Region 4: Municipal Government Toolkit
Improving Your Recycling Program

mrc
michiganrecyclingcoalition
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RECYCLING DIRECTORY

A directory of companies throughout Michigan that collect and process large quantities of recycled materials



THE RECYCLING PARTNERSHIP



REPUBLIC SERVICES

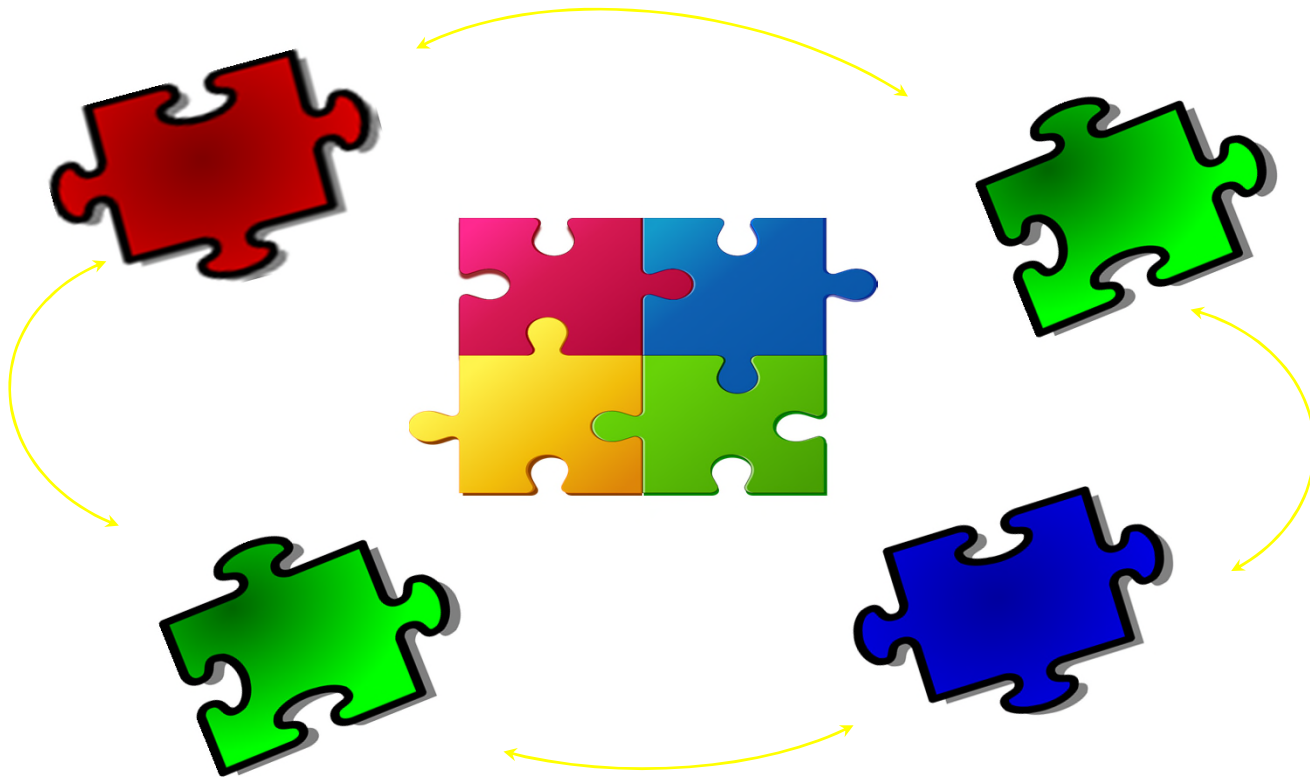


Open Market aka Subscription Services will allow all haulers to market selective services at unregulated price points which fluctuate over time.

Franchise programs establish defined services to be offered within the controls of a contracted agreement between a *Municipality, Hauler & MRF*. Typically pricing is uniform between all homes and/or can be set up through a **pay as you throw** system.



Bundling of Services



Making the Pieces Fit

- Trash
- Recycling
- Yard Waste
- Downtown Areas
- Festivals
- HHW
- S-Waste Events
- Education
- Outreach



Designing The Platform = The Participation





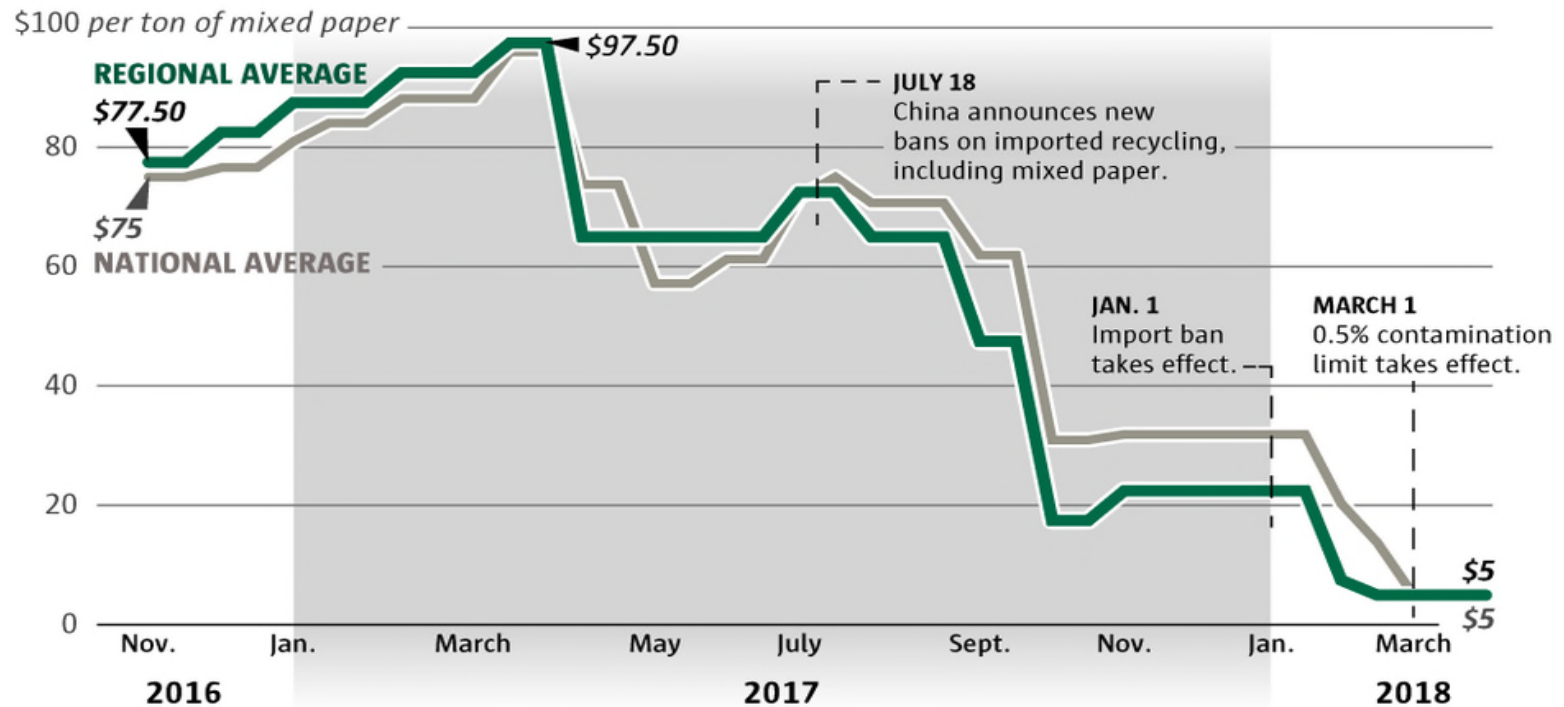
UPDATE: CHINA'S NATIONAL SWORD



Market Impacts of China Sword

China closes the door, prices crash

The average price paid to recyclers for a ton of mixed paper in the Pacific Northwest and across North America has plummeted in the last year.

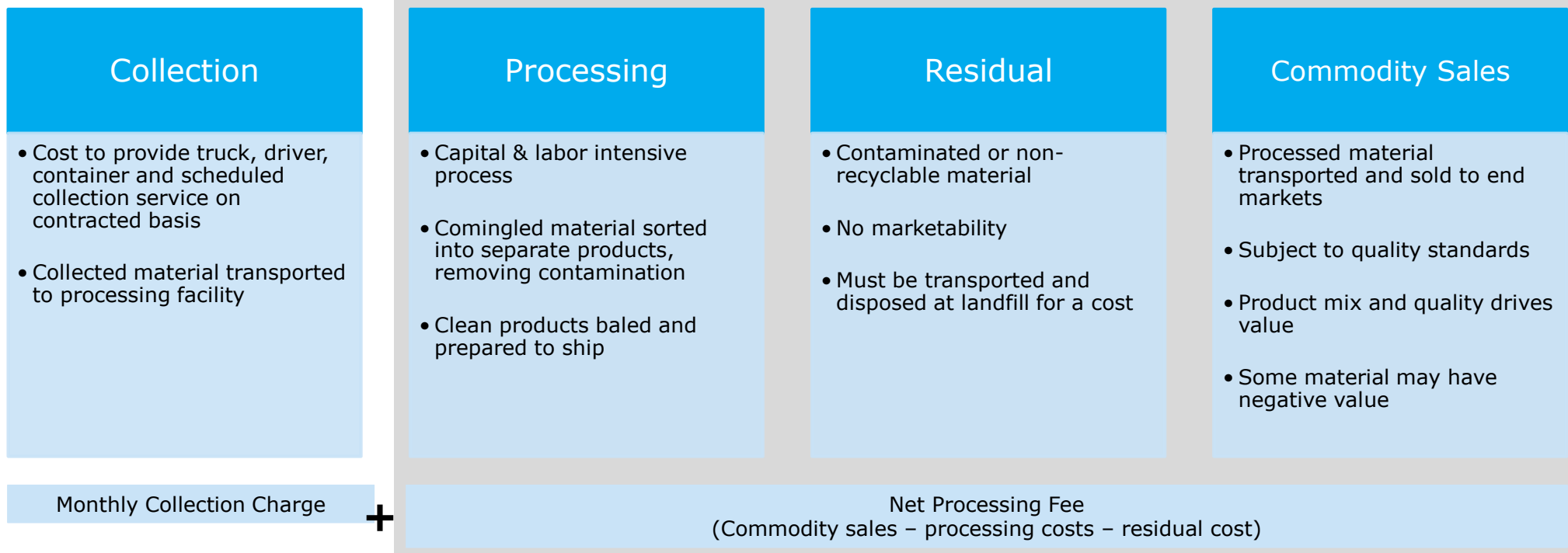


Source: RecyclingMarkets.net

EMILY M. ENG / THE SEATTLE TIMES

New Recycling Business Model

The Cost of Recycling



The cost of a recycling collection program is the sum of the **Collection Charge** and the **Net Processing Fee**

The Right Documents

CHAPTER 50: SOLID WASTE ORDINANCE

- Section
- [50.01](#) Short title
- [50.02](#) Authority
- [50.03](#) Purpose and intent
- [50.04](#) Interpretation and conflict
- [50.05](#) Definitions
- [50.06](#) Administration
- [50.07](#) Accumulation of solid waste, litter penalty
- [50.08](#) Solid waste, litter and construction
- [50.09](#) Solid waste containers
- [50.10](#) Damage to solid waste containers
- [50.11](#) Toxic, corrosive, ignitable, flammable
- [50.12](#) Construction sites and transportation
- [50.13](#) Scavenging prohibited
- [50.14](#) Regulations adopted
- [50.15](#) Solid waste disposition fee
- [50.16](#) Responsibility for fee
- [50.17](#) Powers of the county
- [50.18](#) Solid waste collection authorization
- [50.19](#) Solid waste pre-collection practices
- [50.20](#) Ownership of solid waste
- [50.21](#) Storage of solid waste for commercial purposes
- [50.22](#) Solid waste collection practices
- [50.23](#) Service fees
- [50.24](#) Injunctive relief
- [50.25](#) Conflict
- [50.26](#) Construction and Demolition Debris
- [50.27](#) Disposal of solid waste

REQUEST FOR PROPOSAL

**CONSULTANCY SERVICES FOR IMPLEMENTATION OF PROPERTY
BASED DATABASE SYSTEM USING GEOGRAPHICAL INFORMATION
SYSTEM TECHNOLOGY FOR MUNICIPAL CORPORATION OF
JALANDHAR**

TENDER NUMBER:

**MUNICIPAL CORPORATION OF
JALANDHAR**
March 2012

- 1 -

Second Amendment

GARBAGE AND REFUSE FRANCHISE AGREEMENT

THIS AMENDMENT, hereinafter referred to as "Second Amendment," is made and entered into this ___ day of June 2012, by and between the CITY OF LIVINGSTON, a MUNICIPAL CORPORATION (hereinafter referred to as "City"), and GILTON SOLID WASTE MANAGEMENT, INC., a CALIFORNIA CORPORATION (hereinafter referred to as "Gilton").

RECITALS

WHEREAS, City and Gilton entered into a Garbage and Refuse Franchise Agreement (attached hereto as Exhibit A) hereinafter referred to as "Agreement," for the collection and disposal of garbage, refuse, and waste, dated March 4, 1986 wherein Gilton agreed to provide garbage collection and disposal services for the City; and

WHEREAS, on April 1, 1997, the City and Gilton made minor amendments to the Agreement related to the term and renewal provisions ("First Amendment"); and

WHEREAS, the Agreement is set to terminate on June 30, 2012, however, the City and Gilton have agreed to extend the Agreement for a period of six (6) months. This Second Amendment and the Agreement will expire on December 31, 2012; and

WHEREAS, Gilton will continue to provide the City with services in the same manner, and at the same cost as currently provided under the Agreement, until December 31, 2012.

NOW, THEREFORE, the City and Gilton agree as follows:

AGREEMENT

1. TERM AND TERMINATION DATE

The Garbage and Refuse Franchise Agreement between the City and Gilton shall terminate on June 30, 2012. Pursuant to this Second Amendment, the term

Contract Terms for Recycling

Rates. The rates for all Services shall be as shown on Exhibit X, subject to the rate adjustments and additional fees and costs as set forth herein.

Annual Rate Adjustments. Republic shall increase the rates for all Services effective on each anniversary of the Effective Date of this Agreement in an amount equal to the greater of (a) three (3) percent or (b) the percentage increase in the Consumer Price Index for All Urban Consumers (Water, Sewer and Trash Collection Services) U.S. City Average, as published by United States Department of Labor, Bureau of Statistics (the "CPI"). For the CPI calculation, rates will be adjusted using the most recently available trailing twelve (12) months average CPI compared to the twelve (12) months preceding.

Additional Terms for Recycling Services.

(a) Rates. The rates for Recycling Services shall consist of a Monthly Collection Charge, as set forth on Exhibit X, plus the Recycling Processing Charge. The "Recycling Processing Charge" is derived by subtracting Republic's Processing Rate and Residual Costs from its Commodity Sales, which are also set forth on Exhibit X.

Monthly Collection Charge + Recycling Processing Charge (Commodity Sales – Processing Rate – Residual Costs)

"Commodity Sales" means the average amount Republic receives per 12-month period on the sale of Recyclable Materials processed at the facility receiving the City's Recyclable Material. "Processing Rate" means the current rate Republic charges to process Recyclable Materials. "Residual Cost" means the average amount it costs Republic per 12-month period to transport and dispose of the non-recyclable, residual material pulled out of the collected stream of Recyclable Materials received at Republic's processing facility.

(b) Annual Recycling Adjustment. In addition to the Annual Rate Adjustment, on each anniversary of the Effective Date of this Agreement, Republic shall evaluate, and adjust if needed, the Recycling Processing Charge based on any changes in Commodity Sales, Processing Rates and/or Residual Costs. The Recycling Processing Charge over the most recent twelve month period shall be compared to the last identified Recycling Processing Charge to determine any change. A reduction in Recycling Processing Charge shall result in a decreased price for the Recycling Services for the twelve months after the effective date of the Annual Recycling Adjustment. An increase in Recycling Processing Charge shall result in an increased price for the Recycling Services for the twelve months after the effective date of the Annual Recycling Adjustment. Should unforeseen circumstances cause at least a 20% change in Republic's Recycling Processing Charge, both parties agree to implement a mid-year adjustment to the Recycling Processing Charge. In the event of any Recycling Adjustment, the City shall have sole discretion to make a lump sum payment to Republic (or receive a lump sum credit) or to pass the Recycling Adjustment through to the rate payers in the City.

(c) Specifications for all Recyclable Materials. Recyclable Materials shall comply with any and all specifications provided by Republic in order to meet quality thresholds for commodity markets and be free of contamination. To the extent any type of Recyclable Material received within the City limits is rejected by the recycling facility or is not of the intended quality or grade, Republic will notify the City and the City shall pay any damages, costs, and penalties incurred by Republic due to such rejection or lesser quality or grade, to include transportation and disposal costs for the residual material. If market conditions develop that limit or inhibit Republic from selling some or all of the Recyclable Materials, Republic may (i) suspend or discontinue any or all Recycling services, or (ii) dispose of the Recyclable Materials in a landfill and update the City's rates accordingly.

Zero Commodity Risk – Based on Kent County MI

Net Processing Value/Charge - Model for Annual Rate Review

Number of Homes	2,578
Pickups per Month	4.33
Pounds per set out	12
Tons per Month	67.0

Recycle Processing Rate per Ton (from local MRF) \$ 40.00

Commodity Value (Average of Processed Commodities and Residual) \$ (5.40)

Assumes zero commodity market

	%	Tons	Rate
Tons sold	88%	58.94	-
Residual tons	12%	8.04	\$ (45.00)

Net Processing Position \$ (45.40)

Share with City (if commodity value exceeds processing costs) 50%
 City Rebate (per Ton) \$ -

Monthly net processing value	\$ (3,041)
Rate Adjustment to Reconcile Commodity Market Value	\$ 1.18

Long Term - Public Education

1. Public Education – *WHAT* to Recycle

ALWAYS Recyclable	NEVER Recyclable	SOMETIMES Recyclable (Select Markets)
<p>Paper</p>  <p>Plastic</p>  <p>Metal</p>  <p>Cardboard</p> 	<p>Diapers</p>  <p>Garden Hoses</p>  <p>Shoes/Clothing</p>  <p>Food Waste</p>  <p>Yard Waste</p> 	<p>Plastic Bags</p>  <p>Glass</p> 

2. Public Education – *HOW* to Recycle

Empty. Remove any remaining food or liquid contents from your recyclable item before placing it in a recycling container;

Clean. Lightly rinse the recyclable item to remove any remaining residue; and

Dry. Gently shake out excess water or let the recyclable item air dry before placing it in a recycling container.



Empty.



Clean.



Dry.

ELEMENTS OF A BEST-IN-CLASS RECYCLING PROGRAM

The Michigan Recycling Coalition (MRC) urges the State of Michigan to adopt a comprehensive approach to recycling. This includes making the investment necessary for Michigan to accomplish adopted State goals and providing the leadership necessary to realize the economic and environmental benefits of achieving those goals. In the report *“2011 State of Recycling in Michigan: A Way Forward”*, the MRC documents the significant return on investment offered by addressing the funding needs associated with the components of a comprehensive, and successful statewide recycling program.

Learn About The Six Steps:

Measurement and Data Collection
Community Services and Infrastructure
County Planning
Administration

Education and Technical Assistance
Market and Economic Development
State Solid Waste Policy

<http://www.michiganrecycles.org/images/pdf/recycling%20elements%20fact%20sheet.pdf>

Questions – Comments – Discussion



Presented by:

Matt Biolette / Republic Services
616-212-9348



USER GUIDE

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2. Page numbers are in black and aligned in the bottom right corner.
3. If adjusting placement, align everything to the left under the header.
4. Use a takeaway box at the bottom of the page for brief and impactful messaging as appropriate.

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