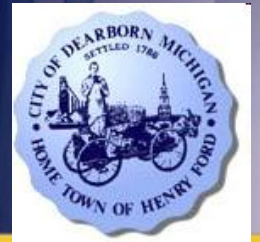




DEARBORN



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Michigan Green Communities

Pilot to Program

Managing the Change

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Evergreen Team



**A
trash
bag**



Waste Reduction

Average One Office Suite

= 1,225 Trash Bags Per Year

- **Modified Practice Saves**

= 917 Bags Per Year

- **Carbon Equivalent = 65 miles**

- **Savings = \$100- \$180 Annually**



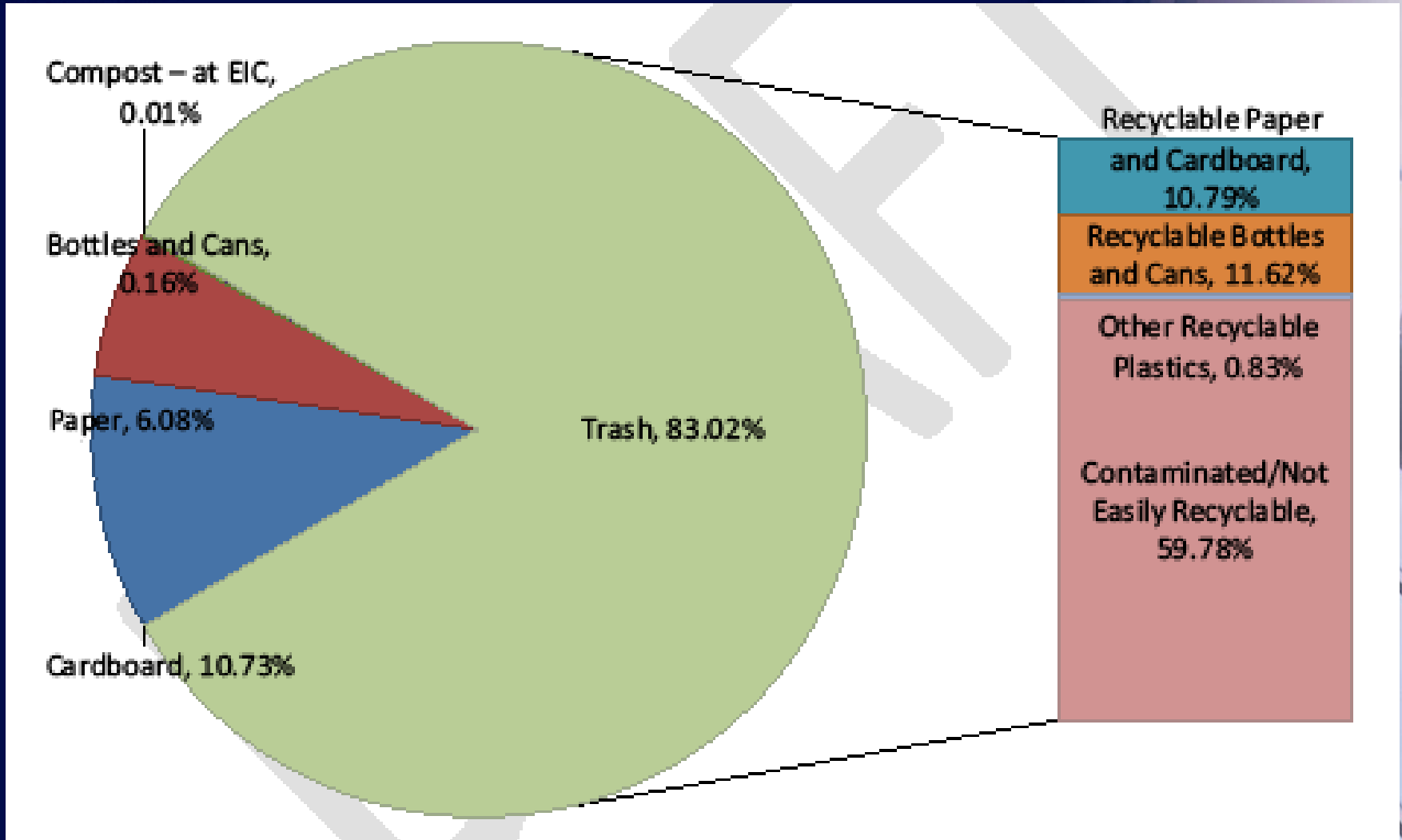
Modifying our Waste Stream

- Quantify Existing Waste Stream
- Define Internal Management Practices
- Explore Recycling Options
- Recommend Modifications
- Implement Pilot Program
- Develop Communications Plan
- Expand Program to Campus



Waste Stream Composition

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FIVE YEAR PROJECTION PILOT BUILDING ONLY

	Year 1 2011 (May-Dec)	Year 2 2012	Year 3 2013	Year 4 2014	Year 5 2015
Amount Recycled (Lbs)	51,125	81,800	81,800	81,800	81,800
Expenditures*					
Total Start-Up Costs	\$ 4,859.60	\$ -	\$ -	\$ -	\$ -
Total Ongoing Costs	\$ 2,000.00	\$ 3,075.00	\$ 3,151.88	\$ 3,230.67	\$ 3,311.44
Avoided Costs:					
Reduced trash service costs	\$ -	\$ (1,377.60)	\$ (1,412.04)	\$ (1,447.34)	\$ (1,483.52)
25% reduction in use of small trash liners	\$ -	\$ (283.23)	\$ (290.31)	\$ (297.57)	\$ (305.01)
Total Avoided Costs	\$ -	\$ (1,660.83)	\$ (1,702.35)	\$ (1,744.91)	\$ (1,788.53)
Total Expenditures	\$ 6,859.60	\$ 1,414.17	\$ 1,449.53	\$ 1,485.76	\$ 1,522.91

*Assumes 2.5% annual inflation



FIVE YEAR PROJECTION

DEARBORN

	Year 1	Year 2	Year 3	Year 4	Year 5
	2011	2012	2013	2014	2015
Amount Recycled (Lbs)	81,800	81,800	81,800	81,800	81,800
Expenditures*					
Total Start-Up Costs	\$ 4,859.60	\$ -	\$ -	\$ -	\$ -
Total Ongoing Costs	\$ 2,000.00	\$ 3,075.00	\$ 3,230.67	\$ 3,230.67	\$ 3,311.44
Avoided Costs:					
Reduction in service costs	\$ -	\$ (1,377.60)	\$ (1,412.04)	\$ (1,447.34)	\$ (1,483.52)
25% of small trash line	\$ -	\$ (283.23)	\$ (290.31)	\$ (297.57)	\$ (305.01)
Total Avoided Costs	\$ -	\$ (1,660.83)	\$ (1,702.35)	\$ (1,744.91)	\$ (1,788.53)
Total Net Cost	\$ 6,859.60	\$ 1,414.17	\$ 1,449.53	\$ 1,485.76	\$ 1,522.91
<i>*, annual inflation</i>					



Environmental Benefits

Waste Diverted from Landfill:

378,327 lbs

Avoided CO2 Emissions:
or the equivalent of taking:

540 metric tons CO2 equivalent
20 cars off the road for 5 years

Avoided Resource Use:

1,211,513 gallons of water saved
959,548 kWh energy saved
2,819 trees saved



Pilot Program

DEARBORN

- **Replace trash cans in offices**
- **Centralize food waste disposal**
- **Engage and Educate Supporters**
- **Make recycling most convenient option**
- **Gain Credibility**
- **Build Constituency**
- **Full cost disclosure (ROI)**



Expanded Program Benefits

BUDGET FOR EXPANDED PROGRAM

	Year 1 2011 (May-Dec)	Year 2 2012	Year 3 2013	Year 4 2014	Year 5 2015
Amount Recycled (Lbs)	51,125	322,110	322,110	322,110	322,110
Expenditures*					
Total Pilot Start-Up Costs	\$4,859.70**	\$0.00	\$0.00	\$0.00	\$0.00
Total Full Program Start-Up Costs	\$0.00	\$66,688.63	\$0.00	\$0.00	\$0.00
Total Ongoing Costs	\$2,250.00 **	\$12,742.80	\$13,061.37	\$13,387.90	\$13,722.60
Avoided Costs:					
Reduced trash service costs	\$0.00	(\$5,388.90)	(\$5,523.63)	(\$5,661.72)	(\$5,803.26)
25% reduction in use of small trash liners	\$0.00	(\$1,690.52)	(\$1,732.78)	(\$1,776.10)	(\$1,820.50)
Removal of Doc-U-Shred subcontract	\$0.00	(\$10,550.00)	(\$11,556.88)	(\$11,845.80)	(\$12,141.94)
1 FTE savings for Eurest contract	\$0.00	(\$25,334.93)	(\$28,329.05)	(\$29,037.28)	(\$29,763.21)
Total Avoided Costs	\$0.00	(\$42,749.76)	(\$47,142.33)	(\$48,320.89)	(\$49,528.91)
Total Expenditures	\$7,109.70**	\$36,681.67	(\$34,080.96)	(\$34,932.99)	(\$35,806.31)

* Assumes 2.5% annual inflation

** Adjust based on actual expenditures

←----- ---net savings--- -----→



5Yr Environmental Benefits

Waste Diverted from Landfill:	1,339,566	lbs
Avoided CO2 Emissions:	1,913	metric tons CO2 equivalent
or the equivalent of taking:	69	cars off the road for 5 years
Avoided Resource Use:	4,289,687	gallons of water saved
	3,397,536	kWh energy saved
	9,982	trees saved



Live Green – GO BLUE!

