





Residential Cost/Benefit (for discussion 7-16-18)

For this analysis, we are presenting the sector-specific diversion rates and the assumptions are based on average, industry standard, costs. The City's current costs for residential collection vary based on contract provisions and bid specifications.

AI.	Residential and Commercial Organics Diversion Reuse Collection and Facilities	39,000	4.00/			Per Month
A2.	Pause Collection and Facilities		16%	\$2,193,000	\$56	\$0.80
	Neuse Collection and Lacilities	6,000	2%	\$64,000	\$11	\$0.00
A3.	Residential Collection System	28,000	12%	\$1,578,000	\$56	\$0.50
A4.	Neighborhood Drop-off Centers	4,000	2%	\$560,000	\$140	\$0.20
A5.	Zero Waste Research Initiative	1,000	1%	\$20,000	\$20	\$0.00
A6.	City Leads by Example	-	-	-	-	-
	City-Owned Transfer and Processing Facilities	-	0%	\$520,000		\$0.20
	Rules	Diversion Tons	Diversion Rate	Total Net Annual Cost	\$/Ton Diverted	Net New Cost Per Household Per Month
	Waste Reduction and Recycling Requirements	34,000	14%	\$371,000	\$11	\$0.10
B2.	Commercial Hauler and Generator Requirements	-	-	-	-	-
	Product and Packaging Waste Reduction	6,000	2%	\$64,000	\$11	\$0.00
B4.	Environmentally Preferable Purchasing	-	-	-	-	-
B5.	Zero Waste Venues & Events	1,000	0%	\$33,000	\$33	\$0.00
B6.	Reusables Disposal Ban	2,000	1%	\$22,000	\$11	\$0.00
	Deconstruction, Construction and Demolition Requirements	1,000	0%	\$31,000	\$31	\$0.00
	Outreach & Education	Diversion Tons	Diversion Rate	Total Net Annual Cost	\$/Ton Diverted	Net New Cost Per Household Per Month
C1.	Outreach and Technical Assistance	4,000	2%	\$248,000	\$62	\$0.10
C2.	Behavior Change Marketing	6,000	2%	\$268,000	\$45	\$0.10
C3.	Awards and Certifications	-	-	-	-	-
	Community Waste Prevention and Recycling Grants	2,000	1%	\$26,000	\$13	\$0.00
C5.	Zero Waste Market Development	2,000	1%	\$46,000	\$23	\$0.00
	Total	136,000	57%	\$6,044,000	\$44	\$2.10

Assumptions:

There are 239,528 households in Boston
The residential sector is 21% of total generation
Staff costs are \$50 per hour
Capital costs are amortized over 20 years

Equipment costs are amortized over 10 years Processing costs are \$25 per ton for recyclables Processing costs are \$40 per ton for organics Collection costs are \$50 per ton Disposal costs are \$65 per ton







Commercial Cost/Benefit (for discussion 7-16-18)

For this analysis, we are presenting the sector-specific diversion rates and the assumptions are based on average, industry standard, costs. The costs per business are based on dividing total costs evenly by business. However, actual costs would be based on service volumes (large generators would pay more and smaller generators would pay less).

	Services	Diversion Tons	Diversion Rate	Total Net	\$/Ton	Net New Cost Per Business
		10110	rtato	Annual Cost	Diverted	Per Month
A1.	Residential and Commercial Organics Diversion	147,000	16%	\$3,889,000	\$26	\$12.00
A2.	Reuse Collection and Facilities	16,000	2%	\$176,000	\$11	\$0.50
A3.	Residential Collection System	-	-	-	-	-
A4.	Neighborhood Drop-off Centers	-	-	-	-	-
A5.	Zero Waste Research Initiative	5,000	1%	\$90,000	\$18	\$0.30
A6.	City Leads by Example	7,000	1%	\$130,000	\$19	\$0.40
A7.	City-Owned Transfer and Processing Facilities	-	0%	\$1,980,000		\$6.10
	Rules	Diversion Tons	Diversion Rate	Total Net Annual Cost	\$/Ton Diverted	Net New Cost Per Business Per Month
B1.	Waste Reduction and Recycling Requirements	127,000	14%	\$1,389,000	\$11	\$4.30
B2.	Commercial Hauler and Generator Requirements	110,000	12%	\$1,250,000	\$11	\$3.90
B3.	Product and Packaging Waste Reduction	13,000	1%	\$146,000	\$11	\$0.50
B4.	Environmentally Preferable Purchasing	10,000	1%	\$120,000	\$12	\$0.40
B5.	Zero Waste Venues & Events	4,000	0%	\$127,000	\$32	\$0.40
B6.	Reusables Disposal Ban	4,000	0%	\$48,000	\$12	\$0.10
B7.	Deconstruction, Construction and Demolition Requirements	5,000	1%	\$129,000	\$26	\$0.40
	Outreach & Education	Diversion Tons	Diversion Rate	Total Net Annual Cost	\$/Ton Diverted	Net New Cost Per Business Per Month
C1.	Outreach and Technical Assistance	14,000	1%	\$932,000	\$67	\$2.90
C2.	Behavior Change Marketing	20,000	2%	\$992,000	\$50	\$3.10
C3.	Awards and Certifications	3,000	0%	\$60,000	\$20	\$0.20
C4.	Community Waste Prevention and Recycling Grants	7,000	1%	\$94,000	\$13	\$0.30
C5.	Zero Waste Market Development	10,000	1%	\$199,000	\$20	\$0.60
	Total	502,000	55%	\$11,751,000	\$23	\$36.30
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Assumptions:

There are 27,000 businesses in Boston
The commercial sector is 79% of total generation
Staff costs are \$50 per hour
Capital costs are amortized over 20 years

Equipment costs are amortized over 10 years Processing costs are \$25 per ton for recyclables Processing costs are \$40 per ton for organics Collection costs are \$50 per ton Disposal costs are \$65 per ton