



TECHNICAL MEMORANDUM NO. 1

DATE: April 20, 2015
TO: Jeff Cole, Recycling and Trash Collection Director
City of Fayetteville, AR
FROM: Robin Mitchell, Project Manager
SUBJ: **Waste Composition Study**
PROJ #: 173-00.00

1. Introduction

This technical memorandum provides the results of the Waste Composition Study (WCS) conducted by Kessler Consulting, Inc. (KCI) for the City of Fayetteville (City). The purpose of the WCS was to determine the percentage by weight of various types of materials found in solid waste disposed by the City's residents and businesses. In addition, the WCS included roadside litter samples as well as out-of-city materials received at the City's transfer station for disposal. It did not include waste collected by franchisees and delivered to facilities other than the City's transfer station. This information will assist in identifying opportunities for expanding and enhancing waste diversion.

Field work took place at the City's transfer station from January 26-30, 2015. During the study, KCI pulled and manually hand-sorted samples from 32 loads of City-collected residential and commercial solid waste, 6 loads of out-of-city waste, and 4 litter samples. In addition, KCI conducted visual audits of 24 loads of drop box waste received at the transfer station. Drop box waste is primarily bulky waste and construction and demolition (C&D) debris collected in roll-off containers. Because of size and weight, drop box waste is not conducive to hand-sorting.

KCI also conducted a WCS of waste disposed by the University of Arkansas. The results of this study will be provided in a separate technical memorandum.

2. Methodology

KCI worked with City staff to develop a list of 36 material categories into which waste would be sorted (see Attachment A). To develop this list of material categories, KCI considered the following:

- Recyclable materials accepted in the City's recycling program.
- Additional types of materials that might potentially be recovered for recycling or composting in the future.

KCI provided a Study Supervisor, Sorting Supervisor, additional labor to assist with sorting activities, all sorting equipment, and safety gear. The City's transfer station staff provided the services of a loader and operator to pull samples at the direction of the Study Supervisor and remove waste upon

completion of sorting activities. KCI prepared and City staff reviewed and approved a site safety plan and sampling and sorting protocol, which were followed throughout the field work.

Four generator sectors were included in the manual sort: residential, commercial, out-of-city, and litter. Residential loads of waste included waste from multi-family residents using carts and commercial loads included waste from multi-family residents with dumpster service.

KCI determined the number of samples to be pulled from each generator sector based on scale house records for the period of October 20 – November 1, 2014 (see Table 1). During the 5-day sorting event, KCI pulled and manually sorted a total of 42 representative samples.

Table 1: Number of Samples by Generator Sector

Generator Sector (scale house code)	Tons	% of Sector tons	% of all MSW tons	# Samples
City Residential (100)	522.54	100.0%	26.9%	14
Residential Totals	522.54	100.0%	26.9%	12
City Commercial (110)	1020.04	98.2%	52.5%	19
City High School (514)	9.42	0.9%	0.5%	1
Trinity MF (545)	4.75	0.5%	0.2%	0
Domain Apartments (591)	4.05	0.4%	0.2%	0
Commercial Totals	1038.26	100.0%	53.4%	20
4D Sanitation (522)	131.21	34.3%	6.8%	1
Trash Away (512)	103.2	27.0%	5.3%	3
Cash Customers (000)	87.7	22.9%	4.5%	0
Madison County (515)	42.82	11.2%	2.2%	2
Courtesy Sanitation (County) (508)	13.89	3.6%	0.7%	0
Backwoods Trash (County) (531)	3.93	1.0%	0.2%	0
Out-of-City Totals	382.75	100.0%	19.7%	6
Total Waste Received	1943.55		100.0%	38
Roadside Litter Clean-up				4
Total Samples				42

Following the field work, KCI analyzed the data as outlined in the *ASTM Standard Test Method for Determination of the Composition of Unprocessed Municipal Solid Waste (D5231-92; reapproved 2008)* to determine the percentage, by weight, of each material category for each of the four generator sectors. In addition to the weighted average, the 90 percent confidence interval was calculated for each material category. The confidence interval indicates that, with a 90 percent level of confidence, the actual arithmetic mean (the arithmetic mean obtained if an infinite number of samples were sorted) is within the upper and lower limits shown. This provides an understanding of how much variation occurred in the quantity of that material category in the samples sorted. Generally, the more homogeneous the waste stream and the greater the number of samples sorted, the higher the level of accuracy achieved and the narrower the margin between the upper and lower bounds of the confidence interval.

Data for the residential and commercial generator sectors was then combined, based on the quantity of waste each contributed to the waste stream in 2014, to calculate the overall composition of the City waste that is disposed, excluding drop box waste. This is referred to throughout this memorandum as the City Aggregate Waste.

In addition to the manual sorting activities, visual characterizations were made of 24 loads of drop box waste over the course of the 5 days of field work. The same person conducted all of the visual characterizations to ensure consistency. These audits were also conducted as specified in the sampling and sorting protocol approved by City staff.

The visual characterization data was then analyzed to calculate the volumetric average of each material category, as well as the 90 percent confidence interval using a standard statistical t-test. The percent by volume of each material type present in the samples was then converted to percent by weight using industry-accepted conversion factors.

3. Results

The following tables and figures present the results of the manual sorting event for each individual generator sector, as well as for the City Aggregate Waste. Material categories are grouped by their potential to be recycled through the City's existing recycling program, other potentially recyclable materials, organics, and all other waste.

- **Residential Waste** (Table 2 and Figure 1; Attachment B provides the individual sample data) – More than 26 percent of residential waste consisted of paper and containers that could be recycled through the City's existing program. The percentages of newspaper (2.2 percent), recyclables containers (8.4 percent), and yard waste (1.4 percent) were lower than what is typically found in the residential waste stream. Seasonality likely played a factor; fewer cold drinks are generally consumed in colder weather and less yard waste is generated. Food waste comprised 18 percent of residential waste, and other types of potentially compostable material made up an additional 11 percent.
- **Commercial Waste** (Table 3 and Figure 2; Attachment C provides the individual sample data) – More than 30 percent of commercial waste consisted of paper and containers that are readily recycled. Food waste comprised 17 percent of commercial waste, and other types of potentially compostable material made up an additional 11 percent.
- **City Aggregate Waste** – Table 4 presents the combined composition of City residential and commercial waste disposed based on the relative amount of each stream disposed in 2014, as well as the estimated tons of each material type disposed in 2014.
- **Out-of-City Waste** (Table 5 and Figure 3; Attachment D provides the individual sample data) – Out-of-city waste received at the transfer station also contained significant quantities of materials that could potentially be recycled or composted; however, the City does not have direct control over this waste until it is received at the transfer station.
- **Litter** (Table 6 and Figure 4; Attachment E provides the data for the individual samples) – The litter sorted during the study consisted of materials collected by road crews. This table also contains the results of the October 2014 litter sort conducted by the City during the Lake Fayetteville clean-up. Both this study and the October study revealed substantial quantities of recyclable containers (27 percent and 23 percent respectively), the majority, by weight, of which was glass. Litter sorted during this study contained larger quantities of paper and yard waste,

whereas litter from the Lake Fayetteville clean-up contained more tires and rubber and plastic bags, reflective of the different sources of the litter.

Table 7 and Figure 5 provide the results of the visual characterization of the drop box waste. Attachment F provides the data from individual samples. Untreated and treated wood waste comprised the largest amount, both by volume and by weight, of drop box waste audited. Nearly 75 percent by weight of drop box waste audited has the potential to be recycled, including untreated wood, drywall, roofing shingles, corrugated cardboard and other paper, carpet and padding, metals and appliances, rigid plastics, and rock/brick/gravel. The composition of C&D debris and bulky waste can vary significantly over time; therefore, the City might want to periodically conduct additional visual audits.

Specific loads in particular offered the potential for diverting materials from disposal. A load from McBride Distributers consisted of 10.5 tons of expired beer in aluminum cans and glass bottles. Another load from Pinnacle Foods contained several Gaylord boxes of new aluminum catering trays.

Figure 6 depicts the overall composition of materials discarded in the City in 2014 based on tonnage data provided by City staff and results of the WCS. It includes materials that were recycled, composted, and disposed. As mentioned previously, some material categories might be underestimated due to seasonality. For example, more yard waste and recyclable containers would likely be found during warmer months. The City might want to consider a second composition study in the spring or summer, even if it is shorter or more limited in scope.

Even with the potential effect of seasonality, Figure 6 identifies the greatest opportunities for increasing waste diversion. Based on this analysis, if all recyclable paper and containers (19 percent of waste generated), other potentially recyclable materials (7 percent), compostable materials (19 percent), and potentially recyclable materials in the bulky waste stream (75 percent of 15 percent, or 11 percent) were diverted from disposal, the City would achieve a 76 percent diversion rate. This demonstrates the tremendous effort and progressive programs and policies that will be needed for the City to strive to achieve its 80 percent waste diversion goal.

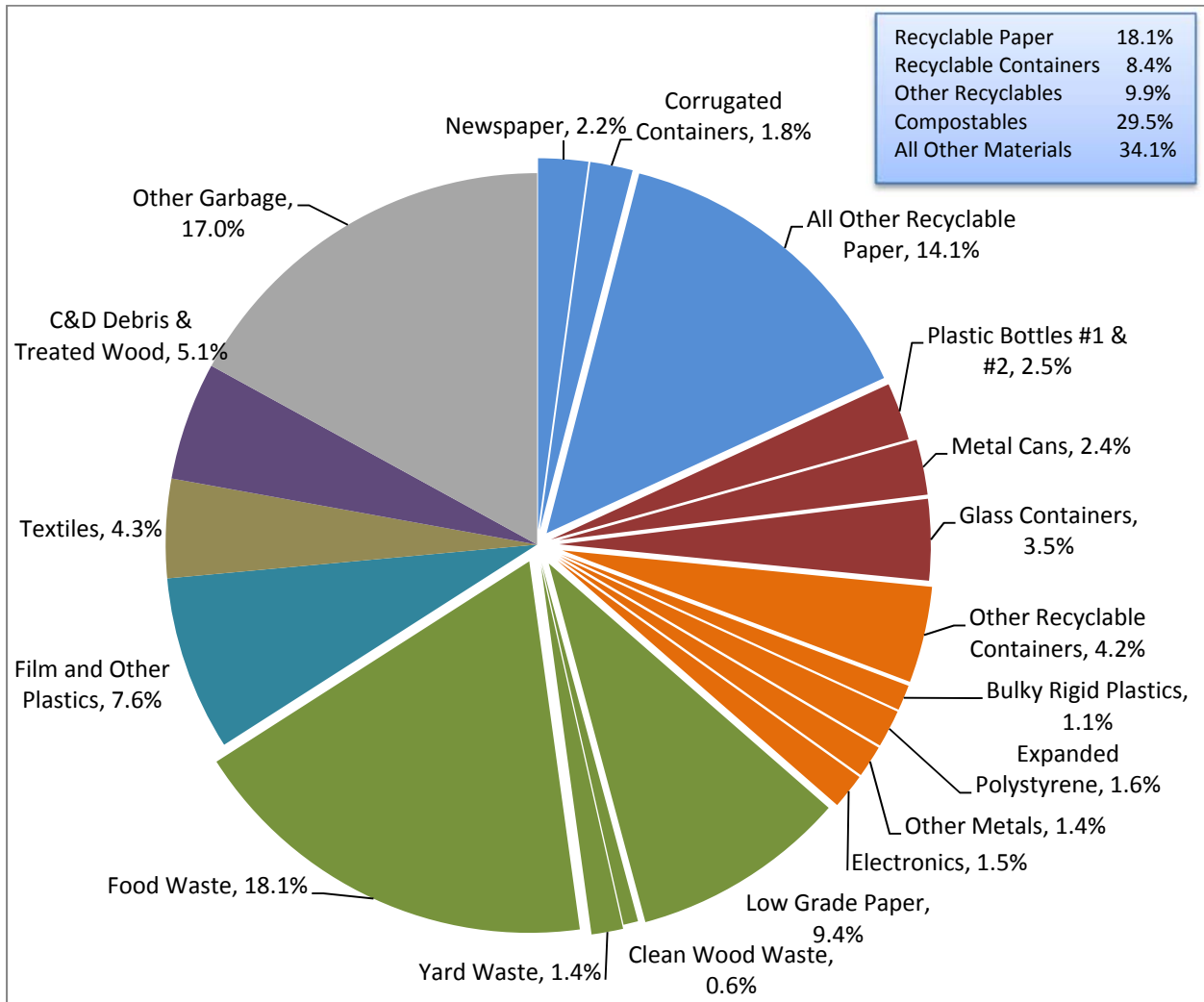
The results of this WCS will be further utilized and applied in the analysis of recycling opportunities as part of the broader Master Plan process.

Table 2: Composition of the City’s Residential Waste Disposed (% by weight)

Material Category		Weighted Average	90% Confidence Interval	
			Lower Bounds	Upper Bounds
1	Newspaper	2.2%	1.2%	3.1%
2	Corrugated Containers	1.8%	1.2%	2.4%
3	Office Paper	3.8%	1.9%	5.7%
4	Other Recyclable Paper	10.3%	9.1%	11.6%
Total Accepted Recyclable Paper		18.1%		
7	PET Bottles	1.5%	1.3%	1.8%
8	HDPE Bottles	1.0%	0.6%	1.3%
15	Tin/Steel Cans	1.5%	1.1%	1.8%
18	Aluminum Cans	0.9%	0.5%	1.3%
20	Glass Containers	3.5%	2.1%	4.9%
Total Accepted Recyclable Containers		8.4%		
6	Aseptic Containers	0.3%	0.2%	0.5%
9	Other Non-Bottle Plastics #1 and #2	1.7%	1.2%	2.1%
10	Other Plastic Containers (#3-#7)	2.2%	1.8%	2.5%
11	Bulky Rigid Plastics	1.1%	0.7%	1.5%
13A	EPS Food Service	1.2%	1.0%	1.4%
13B	EPS Packaging	0.5%	0.4%	0.6%
16	White Goods/Small Appliances	0.3%	-0.2%	0.9%
17	Other Ferrous	0.7%	0.4%	1.0%
19	Other Non-Ferrous	0.4%	0.3%	0.5%
24	Electronics	1.5%	0.7%	2.4%
Total Potentially Recyclable Materials		9.9%		
5	Low Grade Paper	9.4%	8.0%	10.8%
26	Clean Wood Waste	0.6%	0.1%	1.1%
30	Yard Waste	1.4%	-0.1%	2.9%
31	Food Waste	18.1%	15.6%	20.6%
Total Organics		29.5%		
12A	Retail Bags	1.2%	0.8%	1.5%
12B	Non-Rigid Plastic Film	5.6%	4.6%	6.6%
14	All Other Plastics	0.8%	0.5%	1.1%
21	Other Glass	0.4%	0.2%	0.5%
22	Textiles	4.3%	2.9%	5.7%
23	Special Wastes	0.2%	-0.1%	0.5%
25	Household Batteries	0.2%	0.0%	0.3%
27	Treated Wood Waste	0.8%	0.4%	1.3%
28	C&D Debris	4.3%	0.8%	7.9%
29	Tires and Rubber	0.1%	0.0%	0.2%
32	All Other Garbage	10.8%	8.6%	13.0%
33	Liquids	0.6%	0.2%	1.1%
34	Grit	4.8%	2.9%	6.7%
Total All Other Materials		34.1%		
TOTALS		100.0%		

Note: Columns might not appear to add correctly due to rounding.

Figure 1: Composition of the City’s Residential Waste Disposed (% by weight)



Note: For the purpose of this chart:

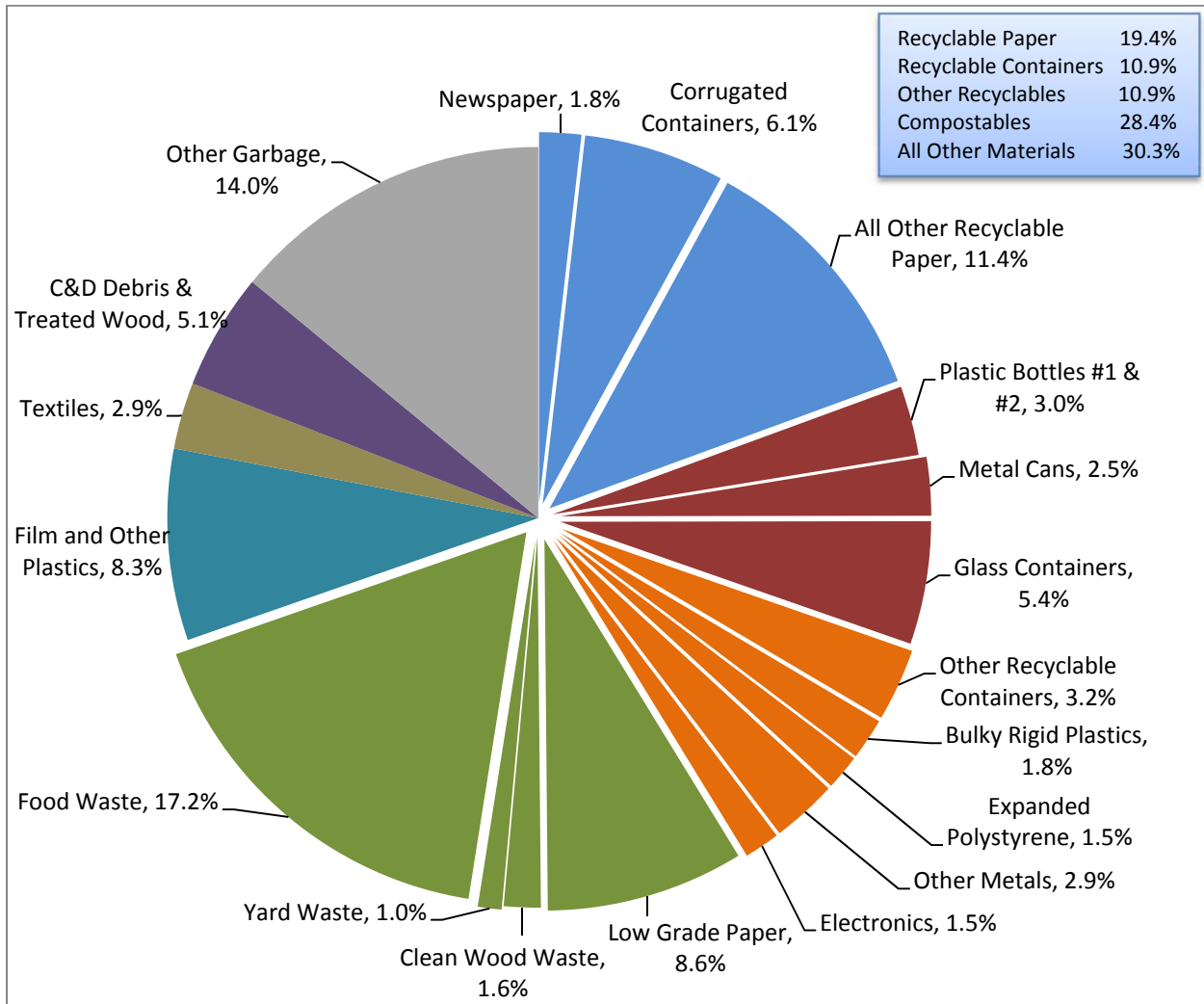
- All Other Recyclable Paper includes the categories of Office Paper and Other Recyclable Paper.
- Plastic Bottles #1 & #2 includes the categories of PET Bottles and HDPE Bottles.
- Metal Cans includes the categories of Aluminum Cans and Tin/Steel Cans.
- Other Recyclable Containers includes the categories of Aseptic Containers, Other Non-Bottle Plastics #1 and #2, and Other Plastic Containers (#3-#7).
- Expanded polystyrene includes the categories of EPS Food Service and EPS Packaging.
- Other Metals includes the categories of White Goods/Small Appliances, Other Ferrous, and Other Non-Ferrous.
- Film and Other Plastics includes the categories of Retail Bags, Non-Rigid Plastic Film, and All Other Plastics.
- Other Garbage includes the categories of Other Glass, Special Wastes, Household Batteries, Tires and Rubber, All Other Garbage, Grit, and Liquids.

Table 3: Composition of the City’s Commercial Waste Disposed (% by weight)

Material Category		Weighted Average	90% Confidence Interval	
			Lower Bounds	Upper Bounds
1	Newspaper	1.8%	1.1%	2.5%
2	Corrugated Containers	6.1%	2.7%	9.6%
3	Office Paper	3.0%	2.0%	4.0%
4	Other Recyclable Paper	8.4%	5.6%	11.3%
Total Accepted Recyclable Paper		19.4%		
7	PET Bottles	1.7%	1.2%	2.2%
8	HDPE Bottles	1.4%	1.0%	1.7%
15	Tin/Steel Cans	1.5%	0.9%	2.2%
18	Aluminum Cans	1.0%	0.8%	1.2%
20	Glass Containers	5.4%	1.0%	9.7%
Total Accepted Recyclable Containers		10.9%		
6	Aseptic Containers	0.4%	0.2%	0.5%
9	Other Non-Bottle Plastics #1 and #2	1.0%	0.8%	1.3%
10	Other Plastic Containers (#3-#7)	1.8%	1.3%	2.2%
11	Bulky Rigid Plastics	1.8%	0.6%	3.1%
13A	EPS Food Service	1.1%	0.6%	1.6%
13B	EPS Packaging	0.4%	0.3%	0.5%
16	White Goods/Small Appliances	0.0%	0.0%	0.0%
17	Other Ferrous	1.2%	1.1%	1.3%
19	Other Non-Ferrous	1.6%	1.5%	1.7%
24	Electronics	1.5%	-4.2%	7.3%
Total Potentially Recyclable Materials		10.9%		
5	Low Grade Paper	8.6%	3.1%	14.1%
26	Clean Wood Waste	1.6%	1.6%	1.6%
30	Yard Waste	1.0%	1.0%	1.0%
31	Food Waste	17.2%	14.9%	19.5%
Total Organics		28.4%		
12A	Retail Bags	0.7%	0.5%	0.9%
12B	Non-Rigid Plastic Film	6.9%	5.3%	8.6%
14	All Other Plastics	0.7%	0.3%	1.2%
21	Other Glass	0.5%	0.3%	0.7%
22	Textiles	2.9%	2.6%	3.2%
23	Special Wastes	1.7%	1.7%	1.7%
25	Household Batteries	0.0%	0.0%	0.0%
27	Treated Wood Waste	1.9%	0.9%	3.0%
28	C&D Debris	3.1%	1.2%	5.1%
29	Tires and Rubber	0.3%	0.2%	0.4%
32	All Other Garbage	6.3%	4.9%	7.8%
33	Liquids	2.0%	1.7%	2.2%
34	Grit	3.2%	2.5%	3.9%
Total All Other Materials		30.3%		
TOTALS		100.0%		

Note: Columns might not appear to add correctly due to rounding.

Figure 2: Composition of City’s Commercial Waste Disposed (% by weight)



Note: For the purpose of this chart:

- All Other Recyclable Paper includes the categories of Office Paper and Other Recyclable Paper.
- Plastic Bottles #1 & #2 includes the categories of PET Bottles and HDPE Bottles.
- Metal Cans includes the categories of Aluminum Cans and Tin/Steel Cans.
- Other Recyclable Containers includes the categories of Aseptic Containers, Other Non-Bottle Plastics #1 and #2, and Other Plastic Containers (#3-#7).
- Expanded polystyrene includes the categories of EPS Food Service and EPS Packaging.
- Other Metals includes the categories of White Goods/Small Appliances, Other Ferrous, and Other Non-Ferrous.
- Film and Other Plastics includes the categories of Retail Bags, Non-Rigid Plastic Film, and All Other Plastics.
- Other Garbage includes the categories of Other Glass, Special Wastes, Household Batteries, Tires and Rubber, All Other Garbage, Grit, and Liquids.

Table 4: Composition of City Aggregate Waste Disposed

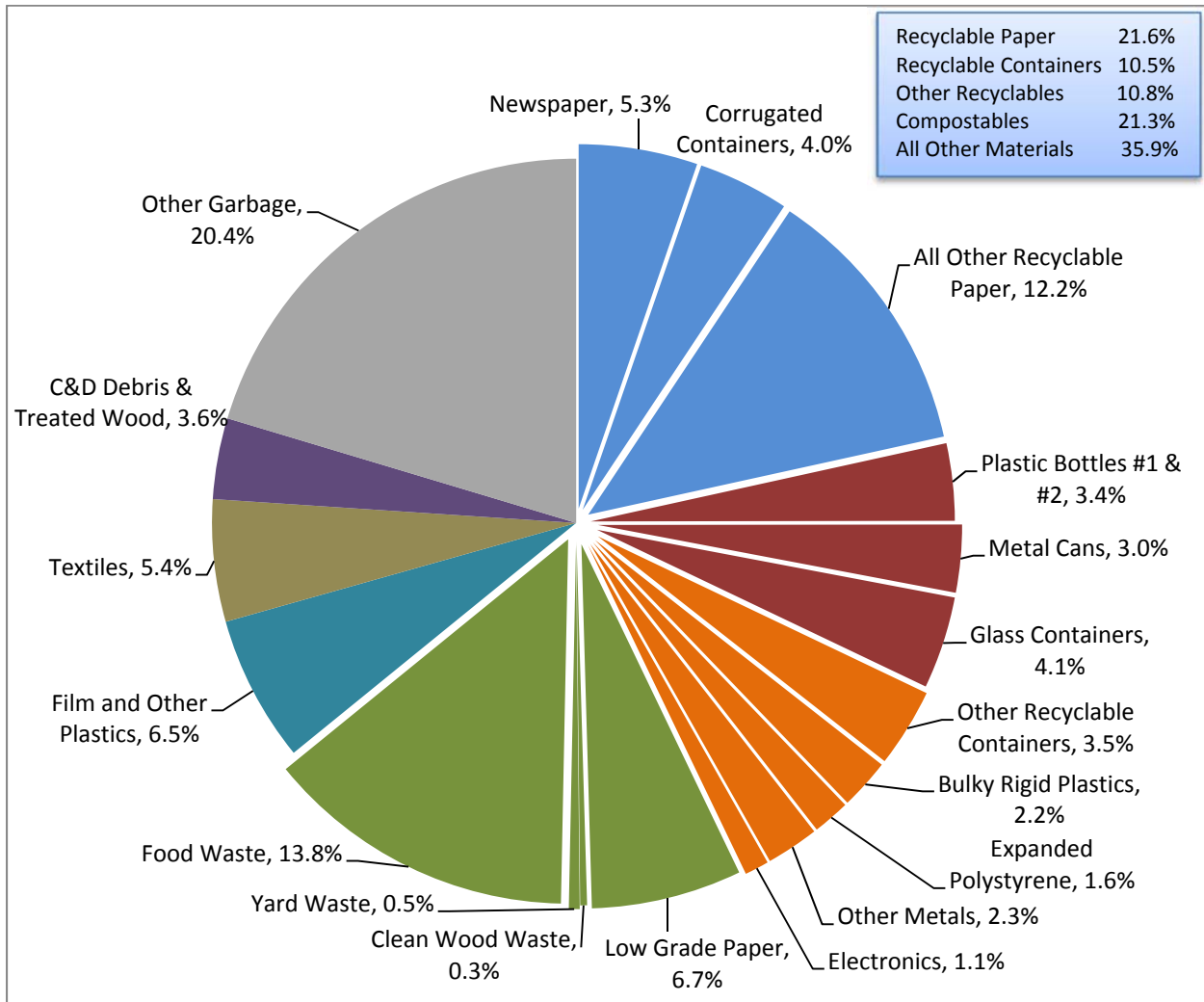
Material Category		Average % by Weight			Estimated Tons/Year (2014)		
		Residential	Commercial	Aggregate	Residential	Commercial	Aggregate
1	Newspaper	2.2%	1.8%	1.9%	307	487	794
2	Corrugated Containers	1.8%	6.1%	4.6%	261	1,635	1,896
3	Office Paper	3.8%	3.0%	3.3%	539	800	1,339
4	Other Recyclable Paper	10.3%	8.4%	9.1%	1,462	2,247	3,709
Total Accepted Recyclable Paper		18.1%	19.4%	19.0%	2,570	5,168	7,738
7	PET Containers	1.5%	1.7%	1.6%	216	443	658
8	HDPE Containers	1.0%	1.4%	1.2%	139	362	502
15	Tin/Steel Cans	1.5%	1.5%	1.5%	212	410	622
18	Aluminum Cans	0.9%	1.0%	1.0%	127	266	393
20	Glass Containers	3.5%	5.4%	4.7%	498	1,425	1,923
Total Accepted Recyclable Containers		8.4%	10.9%	10.0%	1,193	2,906	4,099
6	Aseptic Containers	0.3%	0.4%	0.4%	47	100	146
9	Other Non-Bottle Plastics #1 and #2	1.7%	1.0%	1.3%	238	276	514
10	Other Plastic Containers (#3-#7)	2.2%	1.8%	1.9%	308	466	775
11	Bulky Rigid Plastics	1.1%	1.8%	1.6%	156	480	637
13	EPS Food Service	1.2%	1.1%	1.1%	166	297	463
13B	EPS Packaging	0.5%	0.4%	0.4%	66	113	179
16	White Goods/Small Appliances	0.3%	0.0%	0.1%	46	11	57
17	Other Ferrous	0.7%	1.2%	1.0%	95	326	421
19	Other Non-Ferrous	0.4%	1.6%	1.2%	58	423	482
24	Electronics	1.5%	1.5%	1.5%	217	410	627
Total Potentially Recyclable Materials		9.9%	10.9%	10.5%	1,397	2,903	4,300
5	Low Grade Paper	9.4%	8.6%	8.9%	1,330	2,295	3,625
26	Clean Wood Waste	0.6%	1.6%	1.3%	90	427	517
30	Yard Waste	1.4%	1.0%	1.2%	195	275	470
31	Food Waste	18.1%	17.2%	17.5%	2,565	4,574	7,140
Total Organics		29.5%	28.4%	28.8%	4,180	7,571	11,752
12	Retail Bags	1.2%	0.7%	0.8%	164	183	346
12B	Non-Rigid Plastic Film	5.6%	6.9%	6.5%	799	1,840	2,638
14	All Other Plastics	0.8%	0.7%	0.8%	115	197	312
21	Other Glass	0.4%	0.5%	0.4%	53	129	182
22	Textiles	4.3%	2.9%	3.4%	609	771	1,381
23	Special Wastes	0.2%	1.7%	1.2%	27	451	478
25	Household Batteries	0.2%	0.0%	0.1%	28	12	40
27	Treated Wood Waste	0.8%	1.9%	1.6%	118	517	635
28	C&D Debris	4.3%	3.1%	3.5%	610	835	1,445
29	Tires and Rubber	0.1%	0.3%	0.2%	12	85	97
32	All Other Garbage	10.8%	6.3%	7.9%	1,528	1,687	3,215
33	Liquids	0.6%	2.0%	1.5%	87	520	608
34	Grit	4.8%	3.2%	3.7%	676	845	1,521
Total All Other Materials		34.1%	30.3%	31.6%	4,825	8,073	12,898
TOTALS		100.0%	100.0%	100.0%	14,165	26,621	40,786

Table 5: Composition of Out-of-City Waste Received at the City Transfer Station (% by weight)

Material Category		Weighted Average	90% Confidence Interval	
			Lower Bounds	Upper Bounds
1	Newspaper	5.3%	-0.1%	10.6%
2	Corrugated Containers	4.0%	1.1%	7.0%
3	Office Paper	3.9%	0.4%	7.4%
4	Other Recyclable Paper	8.3%	5.8%	10.9%
Total Accepted Recyclable Paper		21.6%		
7	PET Bottles	2.1%	1.4%	2.8%
8	HDPE Bottles	1.3%	0.7%	2.0%
15	Tin/Steel Cans	2.2%	1.5%	2.8%
18	Aluminum Cans	0.8%	0.6%	1.1%
20	Glass Containers	4.1%	2.5%	5.7%
Total Accepted Recyclable Containers		10.5%		
6	Aseptic Containers	0.6%	-0.1%	1.4%
9	Other Non-Bottle Plastics #1 and #2	1.2%	0.8%	1.6%
10	Other Plastic Containers (#3-#7)	1.7%	0.7%	2.6%
11	Bulky Rigid Plastics	2.2%	-1.1%	5.6%
13A	EPS Food Service	1.2%	0.3%	2.2%
13B	EPS Packaging	0.4%	0.2%	0.7%
16	White Goods/Small Appliances	0.5%	-0.5%	1.5%
17	Other Ferrous	1.4%	0.0%	2.9%
19	Other Non-Ferrous	0.4%	0.2%	0.6%
24	Electronics	1.1%	0.1%	2.0%
Total Potentially Recyclable Materials		10.8%		
5	Low Grade Paper	6.7%	4.6%	8.7%
26	Clean Wood Waste	0.3%	-0.1%	0.7%
30	Yard Waste	0.5%	-0.2%	1.2%
31	Food Waste	13.8%	12.0%	15.6%
Total Organics		21.3%		
12A	Retail Bags	1.1%	0.6%	1.7%
12B	Non-Rigid Plastic Film	4.8%	3.0%	6.5%
14	All Other Plastics	0.6%	0.5%	0.8%
21	Other Glass	4.5%	-2.3%	11.3%
22	Textiles	5.4%	1.2%	9.6%
23	Special Wastes	0.0%	0.0%	0.1%
25	Household Batteries	0.2%	0.0%	0.3%
27	Treated Wood Waste	0.4%	0.2%	0.6%
28	C&D Debris	3.2%	-0.8%	7.2%
29	Tires and Rubber	2.0%	-0.6%	4.6%
32	All Other Garbage	7.4%	5.0%	9.8%
33	Liquids	1.9%	0.0%	3.7%
34	Grit	4.4%	2.1%	6.8%
Total All Other Materials		35.9%		
TOTALS		100.0%		

Note: Columns might not appear to add correctly due to rounding.

Figure 3: Composition of Out-of-City Waste Received at the City Transfer Station (% by weight)



Note: For the purpose of this chart:

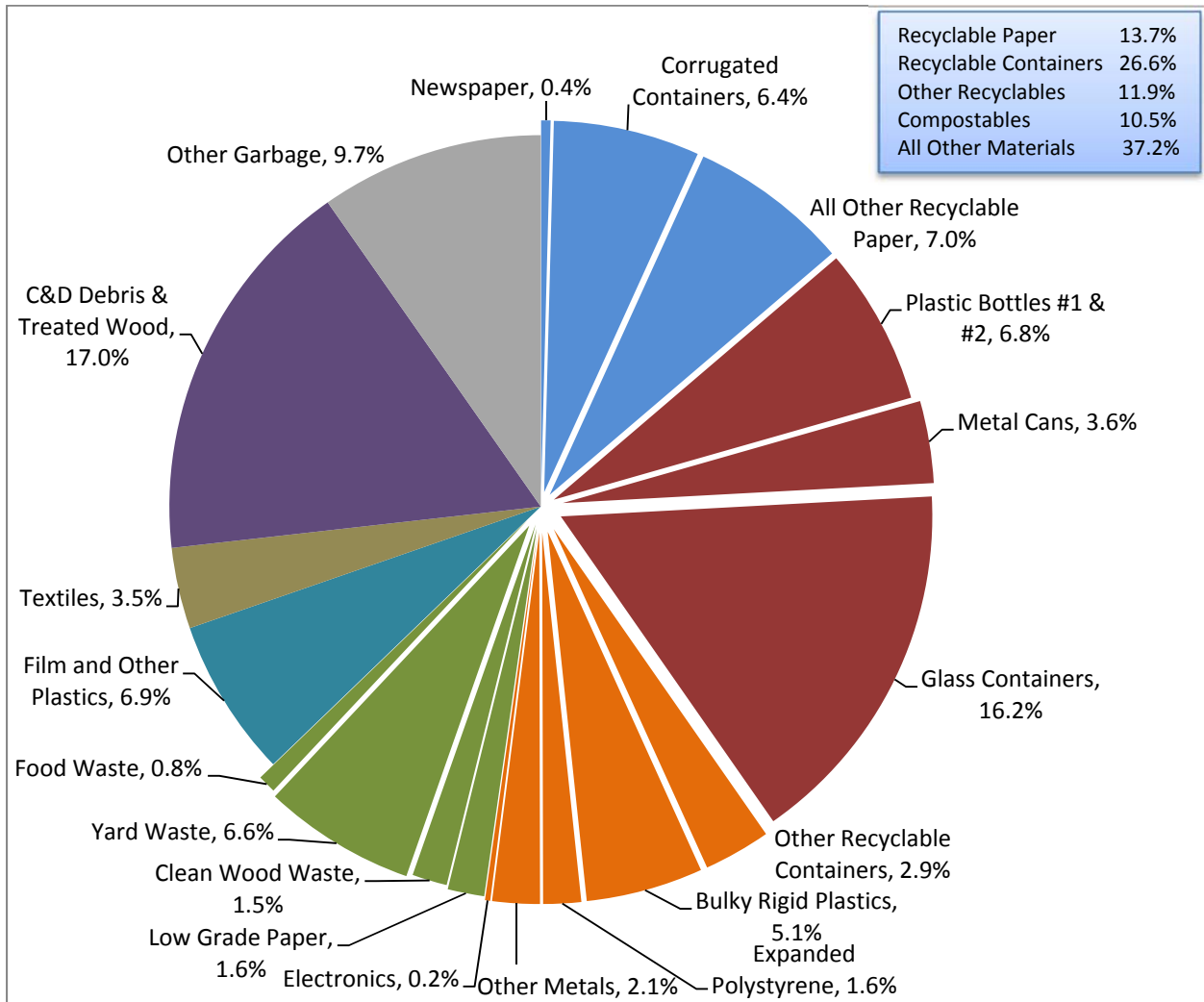
- All Other Recyclable Paper includes the categories of Office Paper and Other Recyclable Paper.
- Plastic Bottles #1 & #2 includes the categories of PET Bottles and HDPE Bottles.
- Metal Cans includes the categories of Aluminum Cans and Tin/Steel Cans.
- Other Recyclable Containers includes the categories of Aseptic Containers, Other Non-Bottle Plastics #1 and #2, and Other Plastic Containers (#3-#7).
- Expanded polystyrene includes the categories of EPS Food Service and EPS Packaging.
- Other Metals includes the categories of White Goods/Small Appliances, Other Ferrous, and Other Non-Ferrous.
- Film and Other Plastics includes the categories of Retail Bags, Non-Rigid Plastic Film, and All Other Plastics.
- Other Garbage includes the categories of Other Glass, Special Wastes, Household Batteries, Tires and Rubber, All Other Garbage, Grit, and Liquids.

Table 6: Composition of the Litter Stream (% by weight)

Material Category		Weighted Average	90% Confidence Interval		October 2014 Litter Sort (% by weight)
			Lower Bounds	Upper Bounds	
1	Newspaper	0.4%	0.0%	0.8%	0.0%
2	Corrugated Containers	6.4%	1.7%	11.0%	0.0%
3	Office Paper	1.2%	0.2%	2.2%	0.0%
4	Other Recyclable Paper	5.8%	3.7%	7.9%	0.0%
Total Accepted Recyclable Paper		13.7%			0.0%
7	PET Bottles	6.3%	5.9%	6.8%	7.5%
8	HDPE Bottles	0.5%	0.1%	0.9%	0.9%
15	Tin/Steel Cans	0.4%	0.1%	0.7%	0.0%
18	Aluminum Cans	3.1%	2.1%	4.2%	3.3%
20	Glass Containers	16.2%	14.1%	18.2%	11.0%
Total Accepted Recyclable Containers		26.6%			22.7%
6	Aseptic Containers	0.1%	0.0%	0.3%	0.0%
9	Other Non-Bottle Plastics #1 and #2	0.6%	0.5%	0.8%	0.0%
10	Other Plastic Containers (#3-#7)	2.1%	1.7%	2.6%	2.2%
11	Bulky Rigid Plastics	5.1%	-2.1%	12.3%	2.8%
13A	EPS Food Service	1.3%	1.0%	1.6%	5.0%
13B	EPS Packaging	0.4%	0.0%	0.7%	
16	White Goods/Small Appliances	0.0%	0.0%	0.0%	0.0%
17	Other Ferrous	1.9%	-0.1%	3.9%	0.2%
19	Other Non-Ferrous	0.1%	0.1%	0.2%	0.3%
24	Electronics	0.2%	-0.1%	0.5%	0.0%
Total Potentially Recyclable Materials		11.9%			10.5%
5	Low Grade Paper	1.6%	-0.7%	3.9%	2.1%
26	Clean Wood Waste	1.5%	-1.6%	4.7%	0.0%
30	Yard Waste	6.6%	5.2%	8.0%	0.0%
31	Food Waste	0.8%	-0.3%	1.9%	0.0%
Total Organics		10.5%	10.5%		2.1%
12A	Retail Bags	1.2%	-0.4%	2.9%	12.5%
12B	Non-Rigid Plastic Film	4.7%	3.2%	6.2%	
14	All Other Plastics	1.0%	0.2%	1.7%	2.7%
21	Other Glass	1.4%	-0.7%	3.5%	0.0%
22	Textiles	3.5%	1.2%	5.9%	2.7%
23	Special Wastes	0.1%	-0.1%	0.2%	0.4%
25	Household Batteries	0.0%	0.0%	0.0%	0.0%
27	Treated Wood Waste	12.0%	-13.4%	37.5%	17.2%
28	C&D Debris	5.0%	-4.0%	14.1%	0.7%
29	Tires and Rubber	0.4%	-0.1%	0.8%	16.6%
32	All Other Garbage	4.7%	2.1%	7.2%	11.9%
33	Liquids	3.1%	-1.4%	7.6%	0.0%
34	Grit	0.1%	-0.1%	0.3%	0.0%
Total All Other Materials		37.2%			64.7%
TOTALS		100.0%			100.0%

Note: Columns might not appear to add correctly due to rounding.

Figure 4: Composition of the Litter Stream (% by weight)



Note: For the purpose of this chart:

- All Other Recyclable Paper includes the categories of Office Paper and Other Recyclable Paper.
- Plastic Bottles #1 & #2 includes the categories of PET Bottles and HDPE Bottles.
- Metal Cans includes the categories of Aluminum Cans and Tin/Steel Cans.
- Other Recyclable Containers includes the categories of Aseptic Containers, Other Non-Bottle Plastics #1 and #2, and Other Plastic Containers (#3-#7).
- Expanded polystyrene includes the categories of EPS Food Service and EPS Packaging.
- Other Metals includes the categories of White Goods/Small Appliances, Other Ferrous, and Other Non-Ferrous.
- Film and Other Plastics includes the categories of Retail Bags, Non-Rigid Plastic Film, and All Other Plastics.
- Other Garbage includes the categories of Other Glass, Special Wastes, Household Batteries, Tires and Rubber, All Other Garbage, Grit, and Liquids.

Table 7: Composition of the Drop Box Waste Disposed

Material Category	Weighted Average (% by volume)	90% Confidence Interval		Volume (cy)	Density (lbs./cy)	Estimated Weight (lbs.)	Weighted Average (% by weight)	Estimated Tons/Year (2014)
		Lower Bounds	Upper Bounds					
C&D - Untreated Wood	33.9%	24.6%	43.2%	236	400	94,209	39.9%	3,852
C&D - Treated Wood	13.9%	8.2%	19.5%	96	400	38,457	16.3%	1,572
C&D - Carpet/Padding	10.1%	5.0%	15.2%	70	84	5,880	2.5%	240
C&D - Drywall	5.2%	1.3%	9.1%	36	600	21,786	9.2%	891
C&D - Roofing Shingles	2.0%	0.2%	3.8%	14	731	10,173	4.3%	416
C&D - Rock/Brick/Gravel	1.6%	-1.9%	5.1%	11	1500	16,950	7.2%	693
C&D - Bagged Waste	0.7%	-0.6%	2.0%	5	150	691	0.3%	28
C&D - Ceramic Tiles	0.3%	-	-	2	1214	2,257	1.0%	92
Total C&D Debris	67.7%			469.7		190,403	80.6%	7,785
Paper - OCC	7.4%	4.3%	10.6%	52	50	2,585	1.1%	106
Paper - Other	0.7%	-12.2%	13.5%	5	363	1,649	0.7%	67
Total Paper	8.1%			56		4,234	1.8%	173
Plastic - Rigid	7.1%	3.7%	10.5%	49	50	2,467	1.0%	101
Plastic - Film	2.0%	-1.7%	5.8%	14	23	327	0.1%	13
Plastic - EPS/Insulation	0.9%	-3.2%	5.1%	7	17	111	0.0%	5
Total Plastics	10.1%			70		2,905	1.2%	119
Furniture - Mattresses	0.6%	-8.3%	9.5%	4	55	224	0.1%	9
Furniture - Furniture	0.6%	-8.3%	9.5%	4	145	631	0.3%	26
Total Furniture	1.2%			8		855	0.4%	35
Metal - Non Ferrous	5.9%	-1.2%	13.0%	41	150	6,118	2.6%	250
Metal - Ferrous	0.1%	-1.0%	1.2%	1	150	117	0.0%	5
Metal - Major Appliances	0.0%	-	-	0	145	46	0.0%	2
Metal - HVAC Ducting	0.0%	-	-	0	47	10	0.0%	0
Total Metal	6.1%			42		6,291	2.7%	257
Other - Glass Containers	2.6%	n/c	n/c	18	600	10,667	4.5%	436
Other - Bagged Waste	1.7%	-3.3%	6.7%	12	150	1,800	0.8%	74
Other - Yard Waste	0.9%	-3.1%	4.8%	6	300	1,834	0.8%	75
Other - Liquids	1.5%	n/c	n/c	11	1600	17,067	7.2%	698
Other - Textiles	0.1%	0.1%	0.1%	1	175	126	0.1%	5
Total Other Materials	6.8%			47		31,492	13.3%	1,288
TOTALS	100.0%	-	-	693.8	-	236,181	100.0%	9,657

Note: Columns might not appear to add correctly due to rounding.

Figure 5: Composition of Drop Box Waste Disposed

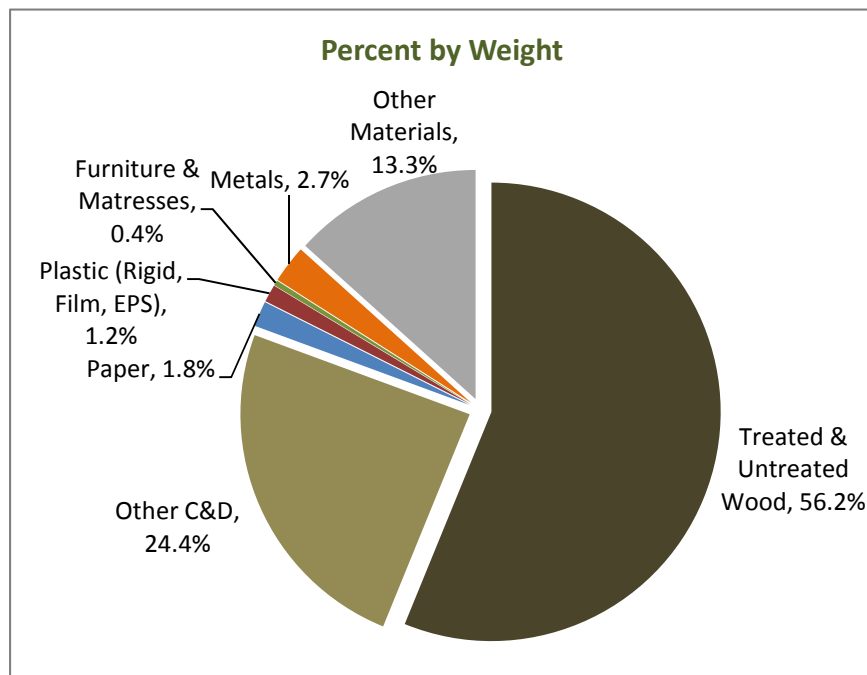
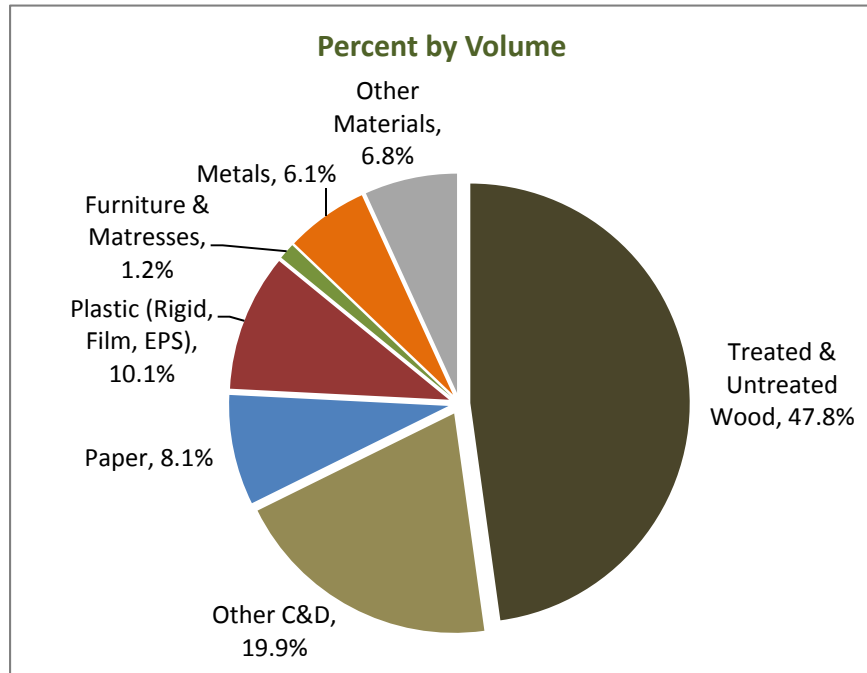
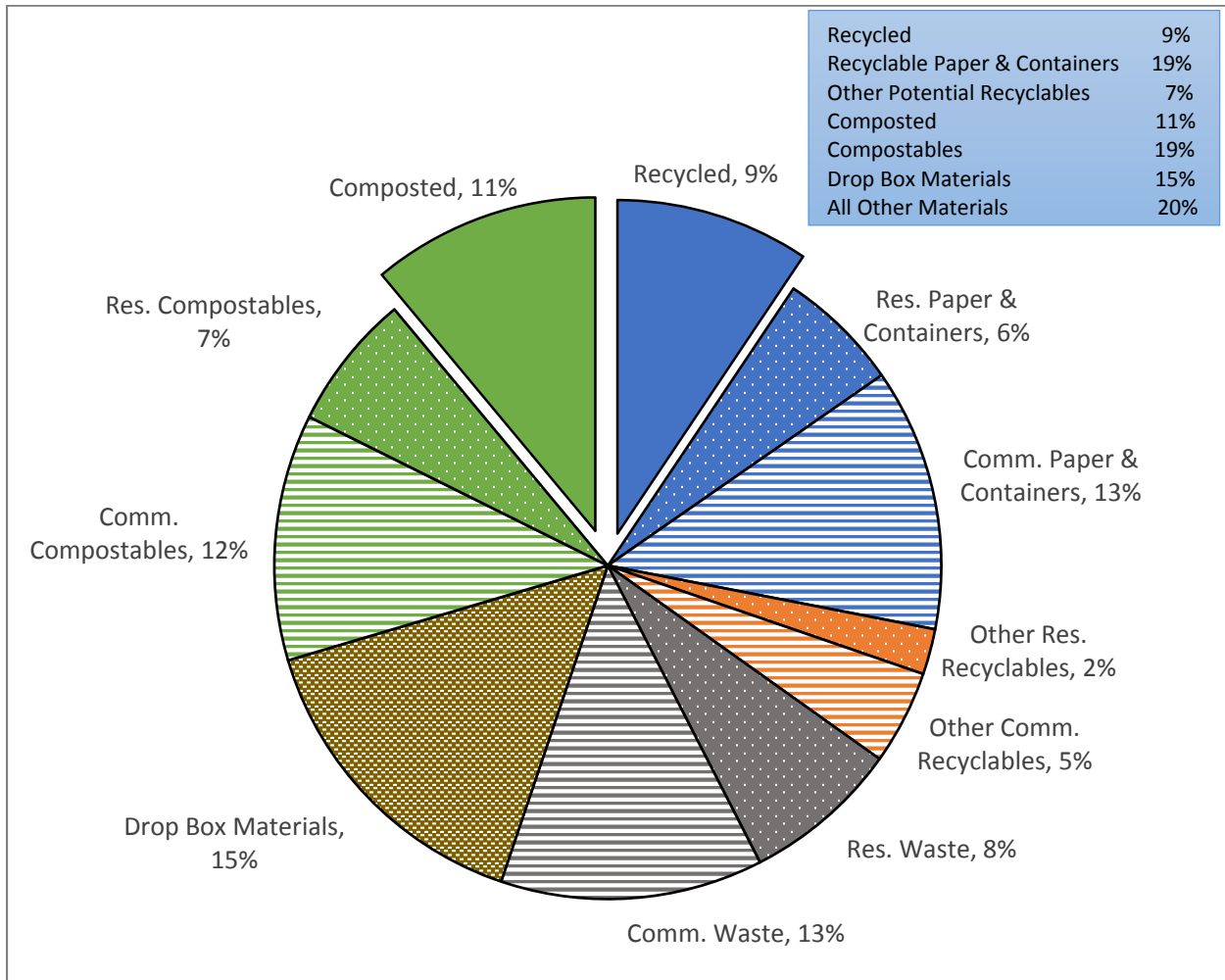


Figure 6: Composition of the Materials Discarded in the City, 2014 (% by weight)



Note: Columns might not appear to add correctly due to rounding.

Note: For the purpose of this chart:

- Paper & Containers includes the categories of Newspaper, Corrugated Containers, Office Paper, Other Recyclable Paper, PET Bottles, HDPE Bottles, Tin/Steel Cans, Aluminum Cans, and Glass Containers.
- Other Recyclables includes the categories of Aseptic Containers, Other Non-Bottles Plastics #1 and #2, Other Plastic Containers, Bulky Rigid Plastics, EPS Food Service, EPS, Packaging, White Goods/Small Appliances, Other Ferrous, Other Non-Ferrous, and Electronics.
- Compostables includes the categories of Low Grade Paper, Clean Wood Waste, Yard Waste, and Food Waste.
- Waste includes Retail Bags, Non-Rigid Plastic Film, All Other Plastics, Other Glass, Textiles, Special Wastes, Household Batteries, Treated Wood Waste, C&D Debris, Tires and Rubber, All Other Garbage, Grit, and Liquids found in residential and commercial waste (not including Drop Box waste).

ATTACHMENT A – Material Category Descriptions

#	Material Categories	Description of Categories
1	Newspaper	Newspaper (loose, tied, or shredded) including other paper normally distributed inside newspaper such as ads, flyers, etc.
2	Corrugated Cardboard (OCC)	Uncoated brown "cardboard" boxes with a wavy core (no plastic liners, waxy coatings).
3	Office Paper	Printed or unprinted paper typically generated in an office environment including white, colored, coated and uncoated papers, and manila and pastel colored file folders.
4	Other Recyclable Paper	All magazines, catalogs, paperboard, chipboard, brown paper bags, telephone books, and other printed material on glossy and non-glossy paper.
5	Low Grade Paper	All remaining paper not categorized in other paper categories, including waxy cardboard and contaminated paper (i.e., napkins, pizza boxes, paper towels, fast-food wrappers, etc.).
6	Aseptic Containers	Gable top milk cartons, juice boxes, and other similar containers.
7	Polyethylene terephthalate (PET) Bottles (SPI #1)	Clear and colored bottles or jars coded PET #1 such as soda bottles, water bottles, etc. These bottles/jars will typically have a screw-on lid or cap.
8	High-density polyethylene (HDPE) Bottles (SPI #2)	Clear/natural and pigmented bottles or jars coded HDPE #2 such as milk jugs, detergent bottles, etc. These bottles/jars will typically have a screw-on lid or cap.
9	Other Non-Bottle Plastics #1 and #2	Clear and colored plastic items labeled PET #1 such as clamshell containers, frozen food trays, disposable cups, and other items labeled PET #1. Also includes wide-mouthed tubs and containers labeled HDPE #2 including lids. Examples include yogurt cups, margarine tubs, Cool Whip® tubs, and other non-bottle HDPE items.
10	Other Recyclable Plastic Containers	All other plastic containers and cups, sometimes coded #3-#7.
11	Bulky Rigid Plastics	Consists of non-container rigid plastic items such as plastic drums, crates, buckets, baskets, toys, refuse totes, lawn furniture, flower pots, laundry baskets, and other large plastic items. <i>Does not include electronic toys.</i>
12 A	Retail Plastic Bags	Grocery bags, retail checkout bags, and other bags associated with the retail service industry.
12 B	Other Non-rigid Plastic Film	Garbage bags, bread bags, zipper-lock bags, plastic sheeting, saran wrap, visqueen, etc.
13 A	Expanded Polystyrene Foam (EPS) (Food Service)	Disposable coffee cups, to-go boxes, plates and other items associated with food service.
13 B	Expanded Polystyrene Foam (EPS) (Packaging)	Disposable packaging materials, which are typically white and are made of expanded polystyrene beads.
14	All Other Plastics	Any plastic materials not categorized above, such as deodorant cases, toothpaste tubes, tooth brushes, broom heads, etc.
15	Tin/Steel Cans	Tin-plated steel cans, usually food containers, and aerosol cans.
16	White Goods	Household appliances such as refrigerators, stoves, and salvageable items such as machinery.

ATTACHMENT A – Material Category Descriptions (continued)

#	Material Categories	Description of Categories
17	Other Ferrous	Steel, clothes hangers, sheet metal products, pipes, miscellaneous metal scraps, and other magnetic metal items.
18	Aluminum Cans	Aluminum soft drink, beer, and some food cans.
19	Other Non-Ferrous	Scrap aluminum, aluminum foil, and catering trays, and other non-magnetic metal, copper wiring and tubing, and brass fixtures.
20	Glass Containers	Clear, Brown, and Green glass bottles and containers.
21	Other Glass	Window panes, mirrors, ceramics, and drinking glasses.
22	Textiles	Clothing apparel, rags, leather, blankets, curtains, shoes, wallets, purses, belts, and scrap leather.
23	Special Wastes	Cleaners, oil, pool chemicals, fluorescent lights, medical waste, solvents, etc., that are considered household hazardous waste.
24	Electronics (E-waste)	Electronic devices such as televisions, computers, cell phones, cordless telephones, PDA, handheld devices, rechargeable batteries, etc.
25	Household Batteries	Household batteries including AA, AAA, C, D, 9-volt, and button types.
26	Clean Wood Waste	Untreated and unpainted lumber, pallets and dimensional lumber. Also includes untreated/unpainted wood furniture including chairs, cabinets, dressers, etc.
27	Treated Wood Waste	Treated and painted lumber, pallets, and dimensional lumber. Also includes treated/painted wood furniture including chairs, cabinets, dressers, etc.
28	C&D Debris	Construction and demolition debris that includes concrete, carpet, drywall, insulation, and roofing materials.
29	Tires and Rubber	Small and large tires and other items made of rubber.
30	Yard Waste	Shrub and brush prunings, household bedding plants, weeds, leaves, grass clippings, and other landscaping and gardening wastes.
31	Food Waste	Meat and vegetable waste (includes coffee grinds and tea bags).
32	All Other Garbage	All other wastes not included in the above categories, including diapers and products that are composite of materials such as frozen juice cans, binders, Pringle’s can, chip bags, etc.
33	Liquids	All liquids found in containers will be emptied here.
34	Grit	Indistinguishable items less than 1-inch in diameter.

ATTACHMENT B – City Residential – Individual Sample Results

Hauler/Location		Residential Truck 4011 Monday Jan 26	Residential Truck 4010 Monday Jan 26	Residential Truck 4014 Monday Jan 26	Residential Truck Tuesday Jan 27
	Material Categories sample #	7	8	9	16
1	Newspaper	0.58%	1.12%	2.87%	1.17%
2	Corrugated Containers	1.37%	2.65%	1.09%	1.33%
3	Office Paper	13.65%	5.79%	3.09%	3.20%
4	Other Recyclable Paper	9.09%	11.64%	9.80%	10.41%
5	Low Grade Paper	5.37%	12.48%	11.25%	11.06%
6	Aseptic Containers	0.20%	0.00%	0.27%	0.80%
7	PET Bottles	0.63%	1.84%	1.42%	2.27%
8	HDPE Bottles	0.66%	0.91%	0.25%	1.14%
9	Other Non-Bottle Plastics #1 and #2	0.96%	0.87%	1.73%	4.07%
10	Other Plastic Containers (#3-#7)	1.97%	1.44%	2.25%	3.47%
11	Bulky Rigid Plastics	1.71%	1.03%	0.78%	0.00%
12A	Retail Bags	0.96%	1.18%	3.10%	1.11%
12B	Non-Rigid Plastic Film	6.30%	5.81%	3.24%	10.60%
13A	Styrofoam Food Service	0.66%	0.96%	0.75%	1.88%
13B	Styrofoam Packaging	0.53%	0.46%	0.25%	0.39%
14	All Other Plastics	2.00%	2.09%	0.27%	0.66%
15	Tin/Steel Cans	0.58%	0.67%	0.74%	2.78%
16	White Goods/Small Appliances	0.00%	0.00%	0.00%	0.00%
17	Other Ferrous	0.47%	0.77%	0.37%	0.17%
18	Aluminum Cans	0.17%	0.59%	0.58%	1.39%
19	Other Non-Ferrous	0.40%	0.00%	0.50%	0.61%
20	Glass Containers	1.30%	0.80%	1.37%	0.73%
21	Other Glass	0.58%	0.00%	0.00%	0.00%
22	Textiles	7.36%	4.12%	0.65%	1.44%
23	Special Wastes	0.06%	0.00%	0.00%	0.00%
24	Electronics	1.10%	1.88%	6.32%	1.74%
25	Household Batteries	0.00%	1.00%	0.00%	0.00%
26	Clean Wood Waste	1.00%	0.45%	3.01%	0.00%
27	Treated Wood Waste	1.97%	2.49%	0.00%	0.00%
28	C&D Debris	0.00%	0.00%	19.12%	0.00%
29	Tires and Rubber	0.07%	0.00%	0.00%	0.00%
30	Yard Waste	10.24%	1.03%	0.00%	0.00%
31	Food Waste	10.20%	22.40%	17.61%	14.36%
32	All Other Garbage	12.42%	13.54%	7.31%	9.43%
33	Liquids	0.00%	0.00%	0.00%	0.00%
34	Grit	5.48%	0.00%	0.00%	13.81%
	TOTALS	100.00%	100.00%	100.00%	100.00%

ATTACHMENT B – City Residential – Individual Sample Results (continued)

Hauler/Location		Residential Truck 4015 Tuesday Jan 27	Residential Truck 4021 Tuesday Jan 27	Residential Truck 4013 Wednesday Jan 28	Residential Truck 25 Wednesday Jan 28
Material Categories	sample #	17	18	24	25
1	Newspaper	5.36%	4.51%	1.84%	0.56%
2	Corrugated Containers	1.91%	4.89%	2.33%	1.00%
3	Office Paper	2.73%	1.19%	1.56%	0.89%
4	Other Recyclable Paper	9.60%	13.34%	7.65%	14.23%
5	Low Grade Paper	12.98%	8.61%	7.35%	13.08%
6	Aseptic Containers	0.20%	0.07%	0.25%	0.39%
7	PET Bottles	1.80%	1.75%	0.78%	1.74%
8	HDPE Bottles	1.33%	2.96%	0.60%	1.38%
9	Other Non-Bottle Plastics #1 and #2	1.21%	1.57%	2.02%	1.27%
10	Other Plastic Containers (#3-#7)	0.91%	1.87%	2.89%	2.02%
11	Bulky Rigid Plastics	0.94%	2.64%	1.07%	1.14%
12A	Retail Bags	0.78%	1.50%	0.80%	0.81%
12B	Non-Rigid Plastic Film	5.14%	6.04%	3.98%	3.39%
13A	Styrofoam Food Service	1.33%	1.25%	0.73%	1.34%
13B	Styrofoam Packaging	0.00%	0.80%	0.56%	0.65%
14	All Other Plastics	0.88%	0.43%	0.22%	0.44%
15	Tin/Steel Cans	1.52%	1.46%	1.53%	1.97%
16	White Goods/Small Appliances	3.79%	0.00%	0.00%	0.00%
17	Other Ferrous	0.00%	1.33%	0.11%	0.10%
18	Aluminum Cans	0.44%	2.66%	0.38%	0.81%
19	Other Non-Ferrous	0.60%	0.49%	0.29%	0.26%
20	Glass Containers	4.41%	4.33%	3.84%	5.73%
21	Other Glass	0.86%	0.22%	0.63%	0.41%
22	Textiles	6.01%	3.07%	2.80%	7.41%
23	Special Wastes	1.76%	0.00%	0.00%	0.00%
24	Electronics	0.00%	0.00%	0.53%	0.96%
25	Household Batteries	0.02%	0.49%	0.11%	0.02%
26	Clean Wood Waste	0.00%	0.00%	0.00%	1.14%
27	Treated Wood Waste	0.00%	1.72%	1.16%	0.51%
28	C&D Debris	1.46%	3.12%	17.84%	1.75%
29	Tires and Rubber	0.00%	0.46%	0.00%	0.38%
30	Yard Waste	0.00%	0.80%	0.00%	0.00%
31	Food Waste	15.81%	13.28%	15.05%	19.90%
32	All Other Garbage	12.20%	7.16%	15.19%	10.07%
33	Liquids	0.00%	0.83%	1.29%	1.14%
34	Grit	4.00%	5.15%	4.62%	3.11%
TOTALS		100.00%	100.00%	100.00%	100.00%

ATTACHMENT B – City Residential – Individual Sample Results (continued)

Hauler/Location		Residential Truck 4015 Wednesday Jan 28	Residential Truck 4010 Thursday Jan 29	Residential Truck 4022 Thursday Jan 29	Residential Truck 4013 Thursday Jan 29	Weighted Average
Material Categories	sample #	26	36	39	40	
1	Newspaper	0.58%	1.12%	2.87%	1.17%	2.17%
2	Corrugated Containers	1.37%	2.65%	1.09%	1.33%	1.85%
3	Office Paper	13.65%	5.79%	3.09%	3.20%	3.81%
4	Other Recyclable Paper	9.09%	11.64%	9.80%	10.41%	10.32%
5	Low Grade Paper	5.37%	12.48%	11.25%	11.06%	9.39%
6	Aseptic Containers	0.20%	0.00%	0.27%	0.80%	0.33%
7	PET Bottles	0.63%	1.84%	1.42%	2.27%	1.52%
8	HDPE Bottles	0.66%	0.91%	0.25%	1.14%	0.98%
9	Other Non-Bottle Plastics #1 and #2	0.96%	0.87%	1.73%	4.07%	1.68%
10	Other Plastic Containers (#3-#7)	1.97%	1.44%	2.25%	3.47%	2.18%
11	Bulky Rigid Plastics	1.71%	1.03%	0.78%	0.00%	1.10%
12A	Retail Bags	0.96%	1.18%	3.10%	1.11%	1.16%
12B	Non-Rigid Plastic Film	6.30%	5.81%	3.24%	10.60%	5.64%
13A	Styrofoam Food Service	0.66%	0.96%	0.75%	1.88%	1.17%
13B	Styrofoam Packaging	0.53%	0.46%	0.25%	0.39%	0.46%
14	All Other Plastics	2.00%	2.09%	0.27%	0.66%	0.81%
15	Tin/Steel Cans	0.58%	0.67%	0.74%	2.78%	1.50%
16	White Goods/Small Appliances	0.00%	0.00%	0.00%	0.00%	0.33%
17	Other Ferrous	0.47%	0.77%	0.37%	0.17%	0.67%
18	Aluminum Cans	0.17%	0.59%	0.58%	1.39%	0.90%
19	Other Non-Ferrous	0.40%	0.00%	0.50%	0.61%	0.41%
20	Glass Containers	1.30%	0.80%	1.37%	0.73%	3.52%
21	Other Glass	0.58%	0.00%	0.00%	0.00%	0.37%
22	Textiles	7.36%	4.12%	0.65%	1.44%	4.30%
23	Special Wastes	0.06%	0.00%	0.00%	0.00%	0.19%
24	Electronics	1.10%	1.88%	6.32%	1.74%	1.53%
25	Household Batteries	0.00%	1.00%	0.00%	0.00%	0.20%
26	Clean Wood Waste	1.00%	0.45%	3.01%	0.00%	0.64%
27	Treated Wood Waste	1.97%	2.49%	0.00%	0.00%	0.84%
28	C&D Debris	0.00%	0.00%	19.12%	0.00%	4.31%
29	Tires and Rubber	0.07%	0.00%	0.00%	0.00%	0.08%
30	Yard Waste	10.24%	1.03%	0.00%	0.00%	1.38%
31	Food Waste	10.20%	22.40%	17.61%	14.36%	18.11%
32	All Other Garbage	12.42%	13.54%	7.31%	9.43%	10.79%
33	Liquids	0.00%	0.00%	0.00%	0.00%	0.61%
34	Grit	5.48%	0.00%	0.00%	13.81%	4.77%
TOTALS		100.00%	100.00%	100.00%	100.00%	

ATTACHMENT C – City Commercial – Individual Sample Results

Hauler/Location		Commercial Truck 4025 Monday Jan 26	Commercial Truck 4019 Monday Jan 26	Commercial Truck 4002 Monday Jan 26	Commercial Truck 4024 Monday Jan 26	Commercial Truck 4024 Tuesday Jan 27	Commercial Truck 4008 Tuesday Jan 27
	Material Categories Sample #	1	2	3	5	11	12
1	Newspaper	0.81%	0.61%	1.38%	3.07%	2.41%	6.45%
2	Corrugated Containers	5.02%	7.96%	4.02%	5.86%	7.88%	4.85%
3	Office Paper	0.47%	0.72%	1.22%	2.99%	0.54%	4.58%
4	Other Recyclable Paper	11.80%	7.59%	9.45%	14.18%	3.82%	9.10%
5	Low Grade Paper	7.83%	2.45%	13.88%	8.68%	2.99%	5.53%
6	Aseptic Containers	0.73%	0.00%	0.32%	0.68%	0.02%	0.33%
7	PET Bottles	2.22%	0.59%	1.62%	1.94%	3.55%	1.73%
8	HDPE Bottles	1.54%	1.37%	1.41%	1.77%	0.71%	1.45%
9	Other Non-Bottle Plastics #1 and #2	1.31%	0.00%	0.69%	1.29%	0.59%	1.39%
10	Other Plastic Containers (#3-#7)	2.80%	2.43%	1.32%	0.70%	1.03%	1.22%
11	Bulky Rigid Plastics	1.22%	0.75%	1.72%	2.58%	4.12%	1.26%
12A	Retail Bags	1.50%	0.23%	0.75%	0.57%	0.39%	0.63%
12B	Non-Rigid Plastic Film	5.36%	10.96%	9.22%	8.29%	4.87%	7.74%
13A	Styrofoam Food Service	0.92%	2.66%	1.00%	0.80%	0.71%	1.17%
13B	Styrofoam Packaging	1.19%	0.00%	1.03%	0.26%	0.48%	0.83%
14	All Other Plastics	0.94%	0.14%	0.85%	1.51%	0.66%	1.50%
15	Tin/Steel Cans	1.19%	0.31%	0.84%	1.21%	1.23%	2.51%
16	White Goods/Small Appliances	0.00%	0.00%	0.00%	0.00%	0.88%	0.00%
17	Other Ferrous	0.42%	0.52%	0.36%	2.53%	1.77%	0.38%
18	Aluminum Cans	0.65%	0.38%	1.42%	1.62%	0.83%	0.66%
19	Other Non-Ferrous	0.25%	0.23%	0.13%	0.39%	0.37%	0.33%
20	Glass Containers	6.55%	0.17%	3.58%	2.12%	5.40%	0.52%
21	Other Glass	0.76%	0.00%	0.00%	0.09%	1.53%	0.46%
22	Textiles	7.00%	0.81%	2.35%	0.89%	1.73%	5.71%
23	Special Wastes	0.00%	0.00%	0.02%	0.00%	3.19%	0.00%
24	Electronics	0.34%	0.00%	0.86%	0.40%	2.21%	0.00%
25	Household Batteries	0.02%	0.00%	0.00%	0.02%	0.00%	0.00%
26	Clean Wood Waste	2.89%	0.09%	3.16%	2.92%	1.71%	3.03%
27	Treated Wood Waste	0.00%	0.23%	1.23%	1.36%	4.16%	3.19%
28	C&D Debris	2.91%	0.00%	0.00%	1.94%	12.62%	0.00%
29	Tires and Rubber	0.00%	0.00%	0.00%	0.11%	2.49%	0.70%
30	Yard Waste	0.00%	0.00%	6.54%	0.87%	10.97%	0.00%
31	Food Waste	14.54%	48.75%	14.43%	20.01%	5.30%	27.45%
32	All Other Garbage	7.62%	10.04%	9.09%	4.32%	3.96%	2.09%
33	Liquids	2.47%	0.00%	1.28%	1.48%	2.88%	0.00%
34	Grit	6.74%	0.00%	4.83%	2.57%	2.03%	3.24%
	TOTALS	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

ATTACHMENT C – City Commercial – Individual Sample Results (continued)

Hauler/Location		Commercial Truck 484 Tuesday Jan 27	Commercial Truck 4008 Tuesday Jan 27	Commercial Truck 4008 Wednesday Jan 28	Commercial Truck 4019 Wednesday Jan 28	Commercial Truck 484 Wednesday Jan 28	Commercial Truck 4007 Wednesday Jan 28
Material Categories	Sample #	13	14	19	20	21	23
1	Newspaper	4.42%	1.78%	1.93%	1.42%	0.41%	0.64%
2	Corrugated Containers	9.45%	8.87%	10.38%	4.75%	8.63%	1.57%
3	Office Paper	7.22%	2.50%	3.38%	3.77%	2.89%	8.17%
4	Other Recyclable Paper	3.90%	7.33%	7.77%	6.57%	4.58%	10.86%
5	Low Grade Paper	8.59%	14.20%	10.24%	13.99%	7.99%	22.71%
6	Aseptic Containers	0.11%	0.34%	0.41%	0.55%	0.36%	0.85%
7	PET Bottles	0.78%	1.29%	1.65%	1.25%	0.00%	2.94%
8	HDPE Bottles	0.66%	0.82%	1.75%	0.89%	2.68%	1.06%
9	Other Non-Bottle Plastics #1 and #2	0.44%	0.73%	1.61%	0.29%	0.41%	2.09%
10	Other Plastic Containers (#3-#7)	1.69%	1.08%	2.01%	1.04%	1.26%	1.17%
11	Bulky Rigid Plastics	1.13%	3.24%	2.70%	1.76%	2.84%	2.27%
12A	Retail Bags	0.13%	0.59%	0.54%	0.36%	1.27%	0.55%
12B	Non-Rigid Plastic Film	4.73%	4.27%	6.31%	12.57%	7.47%	6.24%
13A	Styrofoam Food Service	1.16%	1.29%	1.34%	3.37%	0.13%	0.73%
13B	Styrofoam Packaging	2.50%	0.22%	0.08%	0.06%	0.00%	0.64%
14	All Other Plastics	1.23%	1.19%	0.41%	0.85%	0.73%	0.42%
15	Tin/Steel Cans	0.22%	1.58%	2.16%	1.38%	1.18%	0.64%
16	White Goods/Small Appliances	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
17	Other Ferrous	1.09%	0.31%	2.84%	0.28%	0.45%	0.38%
18	Aluminum Cans	0.01%	0.60%	0.70%	1.12%	0.84%	0.62%
19	Other Non-Ferrous	0.72%	0.18%	0.09%	0.06%	0.00%	0.55%
20	Glass Containers	0.83%	11.22%	0.32%	3.20%	0.00%	5.49%
21	Other Glass	0.00%	0.49%	1.92%	0.00%	0.00%	0.00%
22	Textiles	0.26%	0.77%	8.04%	2.89%	2.76%	5.03%
23	Special Wastes	30.87%	0.00%	0.41%	0.00%	0.00%	0.33%
24	Electronics	0.05%	14.86%	0.32%	0.00%	0.00%	0.07%
25	Household Batteries	0.03%	0.00%	0.14%	0.00%	0.00%	0.07%
26	Clean Wood Waste	1.57%	0.11%	2.39%	1.18%	0.53%	0.02%
27	Treated Wood Waste	0.00%	2.70%	0.94%	0.78%	0.00%	0.29%
28	C&D Debris	0.00%	4.95%	0.40%	2.25%	19.80%	0.00%
29	Tires and Rubber	0.07%	0.29%	1.23%	1.38%	0.00%	0.00%
30	Yard Waste	0.00%	0.00%	0.17%	1.19%	0.00%	0.00%
31	Food Waste	9.82%	6.01%	7.37%	8.61%	18.13%	17.14%
32	All Other Garbage	4.36%	3.78%	10.89%	13.96%	6.32%	1.93%
33	Liquids	0.00%	0.58%	1.81%	4.01%	7.75%	2.72%
34	Grit	1.95%	1.87%	5.36%	4.24%	0.61%	1.83%
TOTALS		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

ATTACHMENT C – City Commercial – Individual Sample Results (continued)

Hauler/Location		Commercial Truck 484 Thursday Jan 29	Commercial Truck 4024 Thursday Jan 29	Commercial Truck 4019 Thursday Jan 29	Commercial Truck 4002 Thursday Jan 29	Commercial Truck 4024 Friday Jan 30	Commercial Truck 4019 Friday Jan 30
Material Categories	Sample #	28	29	31	32	41	42
1	Newspaper	4.20%	0.23%	1.29%	2.40%	2.22%	0.74%
2	Corrugated Containers	8.05%	2.41%	3.77%	5.45%	3.72%	16.49%
3	Office Paper	8.96%	1.68%	4.32%	1.86%	2.55%	0.43%
4	Other Recyclable Paper	9.41%	8.04%	5.38%	6.81%	18.13%	9.51%
5	Low Grade Paper	9.82%	5.60%	7.68%	3.91%	5.70%	3.53%
6	Aseptic Containers	0.37%	0.34%	0.11%	0.33%	0.44%	0.56%
7	PET Bottles	0.92%	1.06%	1.06%	1.55%	1.42%	3.43%
8	HDPE Bottles	0.20%	1.62%	0.42%	0.91%	0.94%	1.61%
9	Other Non-Bottle Plastics #1 and #2	1.55%	1.30%	0.70%	0.86%	2.51%	0.55%
10	Other Plastic Containers (#3-#7)	3.26%	1.69%	1.53%	1.23%	1.83%	0.81%
11	Bulky Rigid Plastics	0.46%	1.05%	0.71%	2.68%	1.38%	1.26%
12A	Retail Bags	0.45%	0.34%	0.60%	0.83%	1.34%	0.54%
12B	Non-Rigid Plastic Film	5.29%	6.39%	10.85%	4.51%	4.44%	4.87%
13A	Styrofoam Food Service	0.63%	0.80%	0.75%	1.24%	0.47%	0.81%
13B	Styrofoam Packaging	0.28%	0.11%	0.12%	0.41%	0.00%	0.42%
14	All Other Plastics	0.40%	0.28%	0.39%	0.79%	0.75%	0.29%
15	Tin/Steel Cans	0.82%	5.93%	0.96%	1.74%	2.04%	0.82%
16	White Goods/Small Appliances	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
17	Other Ferrous	0.21%	0.69%	10.57%	0.83%	1.38%	0.21%
18	Aluminum Cans	0.25%	0.71%	0.28%	1.69%	0.72%	2.93%
19	Other Non-Ferrous	0.12%	25.37%	0.32%	1.18%	0.02%	0.07%
20	Glass Containers	0.62%	3.93%	2.42%	3.86%	4.85%	3.67%
21	Other Glass	0.11%	0.10%	0.45%	0.52%	1.36%	0.94%
22	Textiles	0.34%	1.43%	1.05%	3.76%	6.41%	4.11%
23	Special Wastes	0.15%	0.00%	0.00%	0.00%	0.00%	0.00%
24	Electronics	0.62%	0.24%	0.13%	2.31%	4.07%	0.91%
25	Household Batteries	0.00%	0.00%	0.48%	0.00%	0.00%	0.00%
26	Clean Wood Waste	0.06%	0.00%	0.42%	10.05%	0.00%	0.00%
27	Treated Wood Waste	1.19%	1.73%	0.97%	17.95%	1.09%	2.43%
28	C&D Debris	1.71%	2.68%	1.42%	2.92%	2.94%	1.28%
29	Tires and Rubber	0.00%	0.00%	0.47%	0.00%	0.00%	0.00%
30	Yard Waste	0.00%	0.00%	0.77%	0.33%	0.00%	1.04%
31	Food Waste	22.71%	8.93%	28.96%	7.85%	13.61%	27.56%
32	All Other Garbage	12.45%	3.69%	5.33%	5.42%	11.80%	4.57%
33	Liquids	2.39%	2.55%	4.30%	1.68%	0.00%	1.74%
34	Grit	2.00%	9.07%	1.04%	2.12%	1.86%	1.90%
TOTALS		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

ATTACHMENT C – City Commercial – Individual Sample Results (continued)

Hauler/Location		Commercial Truck 484 Thursday Jan 29	Commercial Truck 4024 Thursday Jan 29	Weighted Average
Material Categories	Sample #	43	44	
1	Newspaper	0.00%	0.27%	1.83%
2	Corrugated Containers	1.18%	3.12%	6.14%
3	Office Paper	1.63%	0.36%	3.00%
4	Other Recyclable Paper	10.21%	2.19%	8.44%
5	Low Grade Paper	8.76%	7.96%	8.62%
6	Aseptic Containers	0.40%	0.22%	0.37%
7	PET Bottles	3.99%	0.67%	1.66%
8	HDPE Bottles	3.18%	2.01%	1.36%
9	Other Non-Bottle Plastics #1 and #2	1.39%	0.82%	1.04%
10	Other Plastic Containers (#3-#7)	2.54%	4.51%	1.75%
11	Bulky Rigid Plastics	1.11%	1.80%	1.80%
12A	Retail Bags	1.63%	0.22%	0.69%
12B	Non-Rigid Plastic Film	9.43%	4.94%	6.91%
13A	Styrofoam Food Service	1.84%	0.60%	1.12%
13B	Styrofoam Packaging	0.00%	0.00%	0.42%
14	All Other Plastics	0.66%	0.67%	0.74%
15	Tin/Steel Cans	2.60%	1.09%	1.54%
16	White Goods/Small Appliances	0.00%	0.00%	0.04%
17	Other Ferrous	0.00%	0.34%	1.23%
18	Aluminum Cans	2.47%	1.80%	1.00%
19	Other Non-Ferrous	0.37%	0.43%	1.59%
20	Glass Containers	16.48%	31.93%	5.35%
21	Other Glass	0.00%	1.13%	0.49%
22	Textiles	1.49%	0.85%	2.90%
23	Special Wastes	0.00%	0.00%	1.69%
24	Electronics	0.00%	0.50%	1.54%
25	Household Batteries	0.00%	0.24%	0.05%
26	Clean Wood Waste	0.00%	3.37%	1.60%
27	Treated Wood Waste	0.00%	0.00%	1.94%
28	C&D Debris	0.00%	3.12%	3.13%
29	Tires and Rubber	0.00%	0.00%	0.32%
30	Yard Waste	0.00%	0.43%	1.03%
31	Food Waste	16.57%	18.07%	17.18%
32	All Other Garbage	5.27%	0.27%	6.34%
33	Liquids	1.07%	0.86%	1.96%
34	Grit	5.73%	5.22%	3.18%
TOTALS		100.00%	100.00%	100.00%

ATTACHMENT D – Out-of-City – Individual Sample Results

Hauler/Location		Madison County Truck 7 Monday Jan 26	Trash Away Truck 66 Monday Jan 26	4D Truck 115 Tuesday Jan 27	Trash Away Tuesday Jan 27	Madison County Truck 7 Wednesday Jan 28	Trash Away Thursday Jan 29	Weighted Average
Material Categories	Sample #	4	6	10	15	22	34	
1	Newspaper	4.25%	18.03%	1.36%	3.30%	0.01%	5.03%	5.28%
2	Corrugated Containers	2.11%	0.68%	9.07%	3.39%	1.12%	7.99%	4.05%
3	Office Paper	2.19%	12.62%	2.29%	2.01%	1.65%	2.74%	3.88%
4	Other Recyclable Paper	11.08%	4.05%	5.88%	9.53%	7.50%	12.08%	8.35%
5	Low Grade Paper	11.20%	5.32%	6.95%	6.36%	6.36%	3.75%	6.68%
6	Aseptic Containers	0.36%	0.00%	2.36%	0.03%	0.75%	0.32%	0.64%
7	PET Bottles	2.41%	1.17%	3.31%	2.56%	1.24%	1.87%	2.11%
8	HDPE Bottles	1.75%	0.25%	1.91%	1.87%	1.70%	0.31%	1.31%
9	Other Non-Bottle Plastics #1 and #2	2.04%	0.73%	1.12%	1.53%	0.68%	1.08%	1.20%
10	Other Plastic Containers (#3-#7)	0.60%	1.11%	2.23%	3.01%	0.30%	2.61%	1.66%
11	Bulky Rigid Plastics	0.69%	0.00%	0.24%	1.18%	10.51%	0.90%	2.24%
12A	Retail Bags	1.32%	0.68%	2.24%	1.23%	0.84%	0.33%	1.12%
12B	Non-Rigid Plastic Film	5.02%	2.94%	8.63%	4.59%	2.82%	4.44%	4.75%
13A	Styrofoam Food Service	0.91%	0.00%	2.99%	2.16%	0.30%	0.85%	1.22%
13B	Styrofoam Packaging	0.71%	0.70%	0.00%	0.62%	0.21%	0.25%	0.42%
14	All Other Plastics	0.43%	0.87%	0.57%	0.71%	0.82%	0.35%	0.62%
15	Tin/Steel Cans	2.73%	1.34%	3.44%	1.52%	2.17%	1.86%	2.18%
16	White Goods/Small Appliances	3.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.50%
17	Other Ferrous	1.14%	0.63%	5.01%	0.24%	1.05%	0.59%	1.44%
18	Aluminum Cans	1.38%	0.87%	0.75%	0.71%	0.53%	0.74%	0.83%
19	Other Non-Ferrous	0.43%	0.25%	0.36%	0.84%	0.25%	0.17%	0.39%
20	Glass Containers	5.14%	1.71%	1.97%	6.25%	3.66%	5.75%	4.10%
21	Other Glass	0.88%	21.36%	1.07%	2.08%	1.65%	0.12%	4.49%
22	Textiles	7.31%	0.32%	1.94%	3.94%	14.73%	4.40%	5.42%
23	Special Wastes	0.00%	0.00%	0.11%	0.00%	0.01%	0.00%	0.02%
24	Electronics	0.00%	0.00%	1.78%	2.98%	1.02%	0.41%	1.07%
25	Household Batteries	0.47%	0.00%	0.00%	0.29%	0.20%	0.18%	0.19%
26	Clean Wood Waste	0.71%	0.00%	0.00%	0.00%	1.13%	0.00%	0.30%
27	Treated Wood Waste	0.30%	0.66%	0.00%	0.63%	0.44%	0.41%	0.41%
28	C&D Debris	0.56%	5.46%	0.47%	0.43%	0.38%	12.45%	3.19%
29	Tires and Rubber	0.00%	3.60%	0.00%	0.63%	7.72%	0.00%	1.97%
30	Yard Waste	0.00%	0.00%	0.71%	0.00%	2.17%	0.00%	0.48%
31	Food Waste	15.29%	11.93%	11.84%	17.35%	12.55%	13.65%	13.81%
32	All Other Garbage	7.09%	2.73%	10.95%	9.35%	5.88%	8.17%	7.40%
33	Liquids	0.00%	0.00%	0.00%	4.90%	4.27%	1.85%	1.87%
34	Grit	6.45%	0.00%	8.43%	3.81%	3.36%	4.37%	4.42%
TOTALS		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

ATTACHMENT E – Litter – Individual Sample Results

Hauler/Location		Litter	Litter	Litter	Litter	Weighted Average
Material Categories	Sample #	28	29	31	32	
1	Newspaper	0.00%	0.84%	0.36%	0.49%	0.41%
2	Corrugated Containers	1.19%	8.80%	5.29%	9.90%	6.37%
3	Office Paper	2.07%	1.95%	0.69%	0.40%	1.20%
4	Other Recyclable Paper	3.30%	7.10%	7.06%	5.58%	5.76%
5	Low Grade Paper	0.85%	4.46%	0.00%	1.61%	1.59%
6	Aseptic Containers	0.00%	0.17%	0.19%	0.22%	0.15%
7	PET Bottles	6.10%	6.80%	6.52%	5.97%	6.32%
8	HDPE Bottles	0.00%	0.39%	0.80%	0.75%	0.51%
9	Other Non-Bottle Plastics #1 and #2	0.41%	0.71%	0.75%	0.64%	0.63%
10	Other Plastic Containers (#3-#7)	1.53%	2.30%	2.20%	2.46%	2.14%
11	Bulky Rigid Plastics	0.76%	3.78%	0.84%	13.68%	5.09%
12A	Retail Bags	0.41%	3.40%	0.86%	0.65%	1.23%
12B	Non-Rigid Plastic Film	4.28%	2.92%	5.08%	5.95%	4.68%
13A	Styrofoam Food Service	1.15%	1.18%	1.65%	1.11%	1.28%
13B	Styrofoam Packaging	0.09%	0.39%	0.80%	0.16%	0.37%
14	All Other Plastics	0.33%	0.58%	1.77%	1.11%	0.99%
15	Tin/Steel Cans	0.11%	0.68%	0.41%	0.55%	0.43%
16	White Goods/Small Appliances	0.00%	0.00%	0.00%	0.00%	0.00%
17	Other Ferrous	1.15%	3.49%	0.00%	3.21%	1.92%
18	Aluminum Cans	3.11%	2.87%	4.35%	2.21%	3.14%
19	Other Non-Ferrous	0.06%	0.20%	0.12%	0.19%	0.14%
20	Glass Containers	16.60%	17.50%	17.31%	13.74%	16.17%
21	Other Glass	0.00%	1.74%	3.77%	0.09%	1.41%
22	Textiles	1.25%	3.00%	3.19%	6.12%	3.53%
23	Special Wastes	0.00%	0.00%	0.27%	0.00%	0.07%
24	Electronics	0.00%	0.00%	0.46%	0.36%	0.23%
25	Household Batteries	0.00%	0.00%	0.00%	0.00%	0.00%
26	Clean Wood Waste	0.00%	0.00%	0.00%	5.36%	1.53%
27	Treated Wood Waste	44.96%	0.88%	3.22%	1.27%	12.02%
28	C&D Debris	0.49%	0.00%	16.13%	1.96%	5.02%
29	Tires and Rubber	0.67%	0.00%	0.00%	0.72%	0.36%
30	Yard Waste	4.97%	6.94%	6.62%	7.80%	6.63%
31	Food Waste	0.65%	2.26%	0.62%	0.00%	0.79%
32	All Other Garbage	3.50%	7.55%	2.68%	5.45%	4.68%
33	Liquids	0.00%	7.14%	6.00%	0.00%	3.12%
34	Grit	0.00%	0.00%	0.00%	0.29%	0.08%
TOTALS		100.00%	100.00%	100.00%	100.00%	100.00%

ATTACHMENT F – City Bulky Waste – Individual Sample Results

Sample Number	1	2	3	4
Date	1/26/2015	1/26/2015	1/26/2015	1/26/2015
Hauler	City	City	City	City
Type of Vehicle	Roll-off	Roll-off	Roll-off	Roll-off
Cubic Yards	30	30	30	30
Truck Number	4003	4007	4003	4003
Time of Day	before 7:26 AM	7:26 AM	8:15 AM	10:24 AM
Paper - OCC	1%	30%	10%	
Paper - Other				
Metal - Major Appliances				
Metal - HVAC Ducting				
Metal - Non Ferrous				
Metal - Ferrous				
Plastic - Film		20%		9%
Plastic - EPS/Insulation				
Plastic - Rigid		20%	10%	1%
C&D - Treated Wood	14.9%	15%	4%	5%
C&D - Untreated Wood	84.2%	15%	8%	86%
C&D - Carpet/Padding			40%	
C&D - Drywall			24%	
C&D - Roofing Shingles			4%	
C&D - Rock/Brick/Gravel				
C&D - Bagged Waste				
C&D - Ceramic Tiles				
C&D - Porcelain Toilets/Sinks				
Furniture - Furniture				
Furniture - Mattresses				
Other - Bagged Waste				
Other - Yard Waste				
Other - Glass Containers				
Other - Textiles				
Other - Liquids				
TOTAL	100%	100%	100%	100%
<i>Comments</i>	Dunkin Construction Waste	Fairview High School	Butterfield Trails	
Net Weight (Tons)	1.81	1.80	3.75	3.00

ATTACHMENT F – City Bulky Waste – Individual Sample Results

Sample Number	5	6	7	8
Date	1/26/2015	1/26/2015	1/27/2015	1/27/2015
Hauler	City	City	City	City
Type of Vehicle	Roll-off	Roll-off	Roll-off	Roll-off
Cubic Yards	30	30	30	30
Truck Number	4003	4007	4007	4003
Time of Day	12:41 PM	12:55 PM	7:00 AM	7:09 AM
Paper - OCC		10%		2%
Paper - Other				
Metal - Major Appliances				
Metal - HVAC Ducting	1%			
Metal - Non Ferrous	4%			3%
Metal - Ferrous		5%		
Plastic - Film				3%
Plastic - EPS/Insulation			2%	1.0%
Plastic - Rigid		15%		1.0%
C&D - Treated Wood	38%	24%	24%	
C&D - Untreated Wood	38%	36%	48%	85%
C&D - Carpet/Padding				
C&D - Drywall				
C&D - Roofing Shingles			8%	
C&D - Rock/Brick/Gravel	19%			
C&D - Bagged Waste		10%		2.5%
C&D - Ceramic Tiles				
C&D - Porcelain Toilets/Sinks				
Furniture - Furniture				
Furniture - Mattresses				
Other - Bagged Waste				2.5%
Other - Yard Waste			18%	
Other - Glass Containers				
Other - Textiles				
Other - Liquids				
TOTAL	100%	100%	100%	100%
Comments	163 Hillstreet House Demo			apartments
Net Weight (Tons)	6.32	2.22	3.96	4.94

ATTACHMENT F – City Bulky Waste – Individual Sample Results

Sample Number	9	10	11	12
Date	1/27/2015	1/27/2015	1/27/2015	1/27/2015
Hauler	City	City	City	City
Type of Vehicle	Roll-off	Roll-off	Roll-off	Roll-off
Cubic Yards	30	30	30	30
Truck Number	4007	4003	4003	4007
Time of Day	after 7:00 AM	10:07 AM	12:48 PM	1:26 PM
Paper - OCC	30%	2%		
Paper - Other				
Metal - Major Appliances				
Metal - HVAC Ducting				
Metal - Non Ferrous	30%			
Metal - Ferrous				
Plastic - Film		1%		
Plastic - EPS/Insulation				
Plastic - Rigid				
C&D - Treated Wood			45%	58.8%
C&D - Untreated Wood			45%	34.3%
C&D - Carpet/Padding				
C&D - Drywall				
C&D - Roofing Shingles			10%	
C&D - Rock/Brick/Gravel				4.9%
C&D - Bagged Waste				
C&D - Ceramic Tiles				
C&D - Porcelain Toilets/Sinks				
Furniture - Furniture		54%		
Furniture - Mattresses		36%		
Other - Bagged Waste		2%		
Other - Yard Waste				2.0%
Other - Glass Containers	25%			
Other - Textiles		5%		
Other - Liquids	15%			
TOTAL	100%	100%	100%	100%
<i>Comments</i>	McBride Distillery, expired beer	Salvation Army		1845 Darling House Demo
Net Weight (Tons)	10.56	1.10	2.48	9.74

ATTACHMENT F – City Bulky Waste – Individual Sample Results

Sample Number	13	14A	14B	15
Date	1/27/2015	1/28/2015	1/29/2015	1/29/2015
Hauler	City	City	City	City
Type of Vehicle	Claw Truck	Roll-off	Roll-off	Roll-off
Cubic Yards	4	30	30	30
Truck Number	762	4007	4003	4007
Time of Day	1:58 PM	10:58 AM	9:06 AM	9:20 AM
Paper - OCC		1.0%	5%	10%
Paper - Other				
Metal - Major Appliances				
Metal - HVAC Ducting				
Metal - Non Ferrous				10%
Metal - Ferrous				
Plastic - Film				30%
Plastic - EPS/Insulation			5%	
Plastic - Rigid		1.0%	5%	
C&D - Treated Wood	10%	4.850%	8.40%	10%
C&D - Untreated Wood		92.150%	58.80%	
C&D - Carpet/Padding			8.40%	
C&D - Drywall			8.40%	
C&D - Roofing Shingles				
C&D - Rock/Brick/Gravel				
C&D - Bagged Waste		0.50%		
C&D - Ceramic Tiles			1%	
C&D - Porcelain Toilets/Sinks				
Furniture - Furniture	18%			
Furniture - Mattresses	72%			
Other - Bagged Waste		0.50%		40%
Other - Yard Waste				
Other - Glass Containers				
Other - Textiles				
Other - Liquids				
TOTAL	100%	100%	100%	100%
<i>Comments</i>	call in request			Pinnacle Foods
Net Weight (Tons)	0.29	3.51	4.16	2.13

ATTACHMENT F – City Bulky Waste – Individual Sample Results

Sample Number	16	17	18	19
Date	1/29/2015	1/29/2015	1/29/2015	1/30/2015
Hauler	City	City	City	City
Type of Vehicle	Roll-off	Roll-off	Roll-off	Roll-off
Cubic Yards	30	30	30	30
Truck Number	4003	4003	4003	4007
Time of Day	10:29 AM	11:15 AM	2:07 PM	7:25 AM
Paper - OCC	2%	10%	5%	14%
Paper - Other				56%
Metal - Major Appliances				
Metal - HVAC Ducting				
Metal - Non Ferrous				
Metal - Ferrous				
Plastic - Film			1.5%	25%
Plastic - EPS/Insulation			2%	
Plastic - Rigid	30%	20%	1.5%	
C&D - Treated Wood	6.8%		17.6%	
C&D - Untreated Wood	20.4%	26.0%	52.8%	
C&D - Carpet/Padding	40.8%	26%	8.8%	
C&D - Drywall		13%	8.8%	
C&D - Roofing Shingles				
C&D - Rock/Brick/Gravel				
C&D - Bagged Waste		2.5%	2%	
C&D - Ceramic Tiles				
C&D - Porcelain Toilets/Sinks				
Furniture - Furniture				
Furniture - Mattresses				
Other - Bagged Waste		2.5%		5%
Other - Yard Waste				
Other - Glass Containers				
Other - Textiles				
Other - Liquids				
TOTAL	100%	100%	100%	100%
<i>Comments</i>	720 East Mills Street			
Net Weight (Tons)	12.10	9.43	4.26	0.87

ATTACHMENT F – City Bulky Waste – Individual Sample Results

Sample Number	20	21	22	23	Weighted Average (% by volume)
Date	1/30/2015	1/30/2015	1/30/2015	1/30/2015	
Hauler	City	City	City	City	
Type of Vehicle	Roll-off	Roll-off	Roll-off	Roll-off	
Cubic Yards	30	30	30	30	
Truck Number	4003	4007	4003	4007	
Time of Day	8:40 AM	8:50 AM	9:53 AM	10:21 AM	
Paper - OCC	5%	10%		16%	7.4%
Paper - Other				4%	0.7%
Metal - Major Appliances	4.50%				0.0%
Metal - HVAC Ducting					0.0%
Metal - Non Ferrous		50%			5.9%
Metal - Ferrous	0.5%				0.1%
Plastic - Film	8%	6%	1%		2.0%
Plastic - EPS/Insulation	32%		5%		0.9%
Plastic - Rigid		4%	4%		7.1%
C&D - Treated Wood			9%		13.9%
C&D - Untreated Wood	20%	12.5%	27%	37.5%	33.9%
C&D - Carpet/Padding			18%		10.1%
C&D - Drywall			18%	37.5%	5.2%
C&D - Roofing Shingles		12.5%	18%		2.0%
C&D - Rock/Brick/Gravel					1.6%
C&D - Bagged Waste					0.7%
C&D - Ceramic Tiles				5%	0.3%
C&D - Porcelain Toilets/Sinks					0.0%
Furniture - Furniture					0.6%
Furniture - Mattresses					0.6%
Other - Bagged Waste	25%	5%			1.7%
Other - Yard Waste					0.9%
Other - Glass Containers					2.6%
Other - Textiles	5%				0.1%
Other - Liquids					1.5%
TOTAL	100%	100%	100%	100%	100.0%
<i>Comments</i>	AT&T				
Net Weight (Tons)	1.04	4.55	4.35	4.69	