

# TECHNICAL MEMORANDUM



**DATE:** July 21, 2023  
**TO:** Keysha Burton, Director of Community Infrastructure Programs  
**FROM:** Ryan Graunke, Consultant  
**SUBJ:** City of New Orleans Single-Family Residential Cart-Based Capture Study  
**PROJ #:** 230-14

Kessler Consulting, Inc. (KCI) is pleased to submit this technical memorandum to The Recycling Partnership (TRP) detailing the results of a Single-Family Residential Cart-Based Capture Study (Study) conducted in the City of New Orleans (City) in May 2023. The purpose of the Study was to measure the composition and household generation rates of trash and recycling at households in the City's subscription-based curbside recycling program and determine the capture rate of recyclables in order to evaluate the performance of the recycling program. This technical memorandum summarizes the results of the capture study.

## Background

Single-family residential trash and recycling are collected in the City through franchise agreements with private haulers. The City is divided into four collection service areas, each with their own franchise: Area 1 – Richard's Disposal, Area 2 – IV Waste, Area 3 – Waste Pro, French Quarter – Empire Waste. Note: for logistical reasons, Area 1 and the French Quarter were not included in the Study; therefore, these areas are not discussed in this Technical Memorandum. Trash is hauled to River Birch Landfill for disposal. Waste Pro transports recycling to CW Recycling for processing, while IV Waste transports recycling to their own transfer station and transfer to Republic Service's processing facility in Baton Rouge.

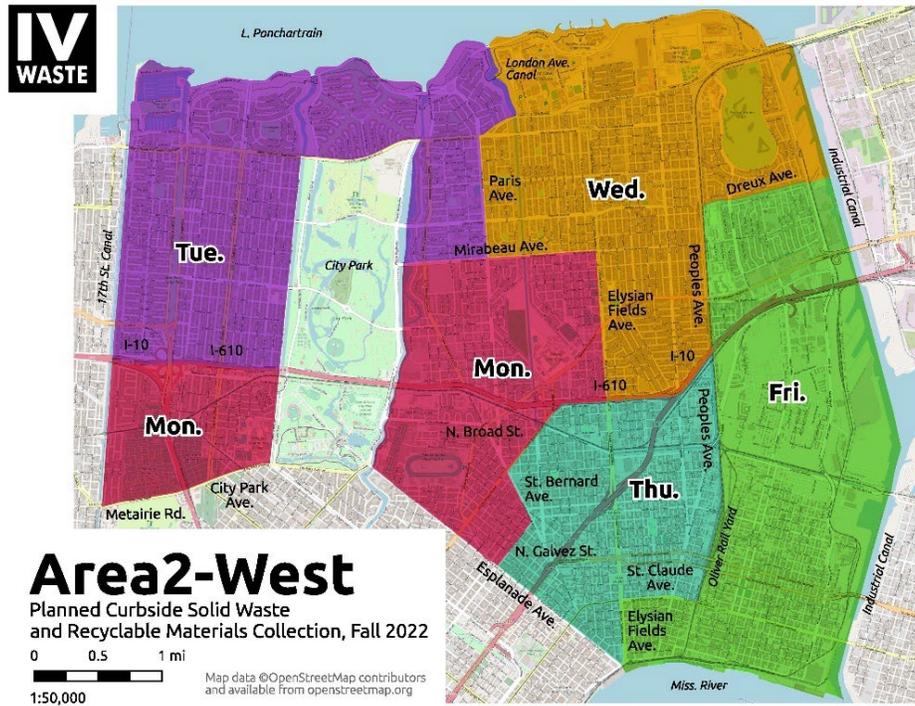
Trash and recycling are collected one time per week Monday through Friday. In Service Areas 2 and 3, households have same day collection of both trash and recycling. Trash is collected in 95-gallon curbside roll carts with allowances for uncarted waste to be collected as well. Recycling is collected in 65-gallon rolls carts on an opt-in subscription basis. Table 1 lists the number of households and number of recycling subscribers for Areas 2 and 3, as well as the tonnages of trash and recycling. Figures 1 and 2 show the collection map by day for Areas 2 and 3, respectively.

**Table 1: Households and Recycling Subscribers (June 2023)**

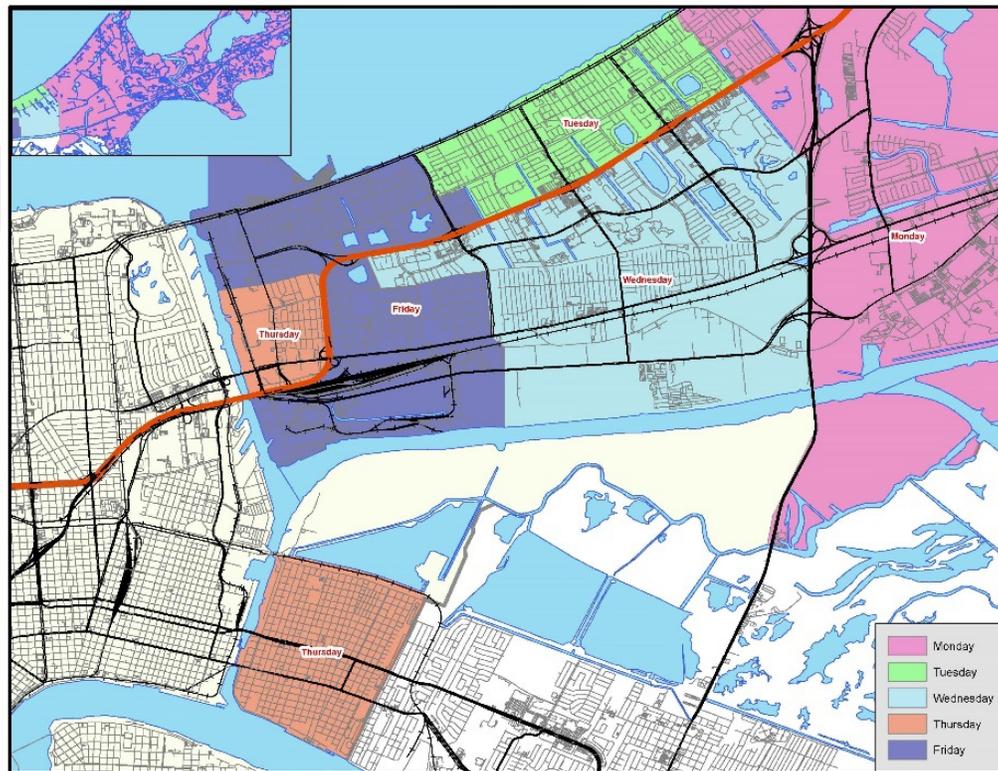
Service Area	Households	Recycling Subscribers	Annual Tonnage of Trash*	Annual Tonnage of Recycling*
Area 2	50,623	21,233	56,347	1,007
Area 3	26,269	7,389	38,946	371

\*Calculated from tonnage reports provided by the City for November 2022 through June 2023, extrapolated to 12 months.

**Figure 1: Service Area 2 Collection Map**



**Figure 2: Service Area 3 Collection Map**



## Methodology

The sampling and sorting event for the Study was conducted from May 22-26, 2023. All sorting activities occurred at the River Birch Landfill located at 2000 S Kenner Ave, Avondale, LA 70094.

### Sampling Schedule

During the sorting event, KCI collected trash and recycling in a box truck from individual households Monday through Thursday from pre-selected portions of recycling routes in Service Areas 2 and 3. The City selected which Service Areas to collect on each day in order to be most represented of the City. KCI then worked with IV Waste and Waste Pro to obtain route maps identifying when and where the trash and recycling collection trucks would be on each route, each day. KCI then selected portions of each recycling route where both the trash and recycling truck were later in the day and the carts were less likely to have already been serviced when KCI arrived. From each portion, trash and recycling were collected from a number of households with both carts set out. KCI originally targeted four or five households to be collected from each portion, based on the number of portions for each area and day; however, due to conditions in the field (e.g., very few paired setouts, timing with the collection trucks, capacity of the box truck) the number of households from each portion was adjusted. Each group of houses from a portion represented one sample. Table 2 lists the sample details for each sample in the Study. Note: Each sample included both trash and recycling samples that were collected and sorted separately; therefore, a total of 54 samples (27 trash, 27 recycling) were collected from 110 households.

**Table 2: Sample Schedule and Information**

Sample #	Service Area – Day	Recycling Route #	# of Households
1	IV - Mon	202	5
2	IV - Mon	203	5
3	IV - Mon	201	5
4	WP - Mon	731	4
5	WP - Mon	731	4
6	WP - Mon	730	3
7	WP - Mon	730	2
8	IV - Tue	222	4
9	IV - Tue	222	3
10	IV - Tue	221	4
11	IV - Tue	221	3
12	IV - Tue	223	6
13	IV - Tue	224	6
14	WP - Wed	730	5
15	WP - Wed	730	5
16	WP - Wed	730	5
17	WP - Wed	731	5
18	WP - Wed	731	4
19	WP - Wed	731	4
20	IV - Thu	262/263	4
21	IV - Thu	262/263	4
22	IV - Thu	261/262	4
23	IV - Thu	261/262	4
24	WP - Thu	731	3
25	WP - Thu	731	3
26	WP - Thu	730	3
27	WP - Thu	730	3

Note: Some routes had more than one portion/sample. This was determined based on the number of recycling routes the hauler ran on the specific day.

### Sampling procedure

For each sample, KCI collected the first household the box truck arrived at in the pre-determined route portion with a paired set out of trash and recycling. KCI collected the entire contents of the trash and recycling containers in plastic bags, keeping trash separate from recycling. Using the smart phone app “Solocator®,” KCI geotagged each household to precisely locate the house being sampled. KCI then drove along the route collecting material from every fifth paired set-out, counting as the box truck drove along the route. In areas with fewer paired set-out the frequency of collection was increased. Only houses with both trash and recycling carts set out were selected, and material set outside of the cart was collected as well with the trash, unless it was large bulky items like furniture. Corrugated cardboard placed outside of a cart was collected with recycling. Maps with individual points for collected households are included in Attachment A.

### Sorting Protocol

After collecting all samples for the day, KCI brought them to the landfill. The total weight of the sample was recorded prior to sorting to measure the total generation. With a crew of temporary laborers, KCI hand-sorted them into the material categories as listed and described in Attachment B. Throughout the sorting process, KCI staff examined all sorting bins to ensure accurate sorting of all material categories. The weight of each sorted material was then recorded for each sample. As noted previously, trash was sorted and weighed separately from recycling samples. Bagged material found in the recycling samples were examined by KCI staff, if the bag contained more than approximately 20 percent non-recyclables or was heavily contaminated, it was placed into the Bagged Waste category; otherwise, it was placed into the Bagged Recyclables category. At the end of the sampling and sorting event, Bagged Recyclables, which were saved from all recycling samples, were opened and sorted.

### Data Analysis

After completing each sorting event, KCI compiled the data and calculated the following metrics for each collection day by Service Area, the average for each Service Area, and the combined average of both Service Areas.

- **Composition (percentage by weight):** The weighted average composition of the trash and recycling streams was calculated by averaging the composition of each sample weighted by the total generation per household of that sample. Weighting the average ensures that households that generate more material are appropriately represented in the average composition.
- **Annual Generation (pounds per household per year):** The weighted average annual generation was calculated by dividing the sample weight of each sample by the number of households collected for that sample and multiplying by 52, then averaging each sample, weighted by the number of households each sample represented. The average generation of each material type was calculated by applying the composition of each sample to the respective sample’s annual generation and averaging each sample, weighted by the number of households each sample represented. Note: This calculation assumes that because the City has weekly collection of trash and recycling, the amount collected each day during the Study represented one-week of generation for each household.
- **Apparent Recovery Rate (percentage by weight):** The apparent recovery rate is the total generation of the recycling stream divided by the total generation of both trash and recycling.
- **Actual Recovery Rate (percentage by weight):** The actual recovery rate is the generation of Program Recyclables in the recycling stream divided by the total generation of both trash and recycling. Note: The actual recovery rate deducts contamination in the recycling.

- **Capture Rate (percentage by weight):** Finally, the capture rate of each material that was considered to be a Program Recyclable was calculated by dividing the average generation of each material type in the recycling stream by the total generation of that material in both the trash and recycling streams. The total capture rate of all Program Recyclables was also calculated. Note: Recovery and capture rates were calculated for each sample and the averages.
- **Confidence Intervals:** A 90 percent confidence interval was also calculated for averages by Service Area and the combined average for each metric, where appropriate, using a standard statistical t-test. The confidence interval indicates that, with a 90 percent level of confidence, the actual arithmetic mean is within the upper and lower limits of the interval.

## Results

This section summarizes the composition of trash and recycling and the generation, recovery, and capture rates measured during the Study. For the purposes of analysis and discussion, the material categories in the Study were organized into the following groups:

- **Program Recyclables:** All recyclable materials that are accepted in the City's recycling program. This is subdivided into Program Recyclable Paper and Program Recyclables Containers.
- **Contaminants (recycling stream):** All materials in the recycling stream that are not accepted in the City's recycling program. This includes Bagged Recyclables and Bagged Waste.
- **Potentially Compostable Materials (trash stream):** Materials in the trash stream that potentially could be composted in a commercial composting facility. This may require proper source-separation or preprocessing to remove inorganic material, such as food packaging.
- **All Other Materials (trash stream):** All materials in the trash stream that are not accepted in the City's recycling program.

## Composition Results

Table 3 summarizes the composition of the material groups for each collection day by Service Area and the combined average. Figure 3 compares the average contamination rate and the percentage of Program Recyclables in the trash stream of the two different Service Areas. Detailed composition results are in Attachment C, along with the composition of Bagged Recyclables. The composition and weight of individual samples are in Attachment D.

Key findings from the composition results include:

## Recycling Stream

- Nearly 50 percent of the recycling stream was Program Recyclable Paper, which was about half Corrugated Cardboard and half Mixed Recyclable Paper.
- About 16 percent of the recycling stream was Program Recyclable Containers, which were mostly PET Bottles, Jugs, Jars – Clear.
- Almost 40 percent of the stream was contamination.
  - The most significant contaminant by far was Bagged Waste (over 16 percent) and Glass Bottles and Jars (about 6 percent). Combined they were over half of the contamination.

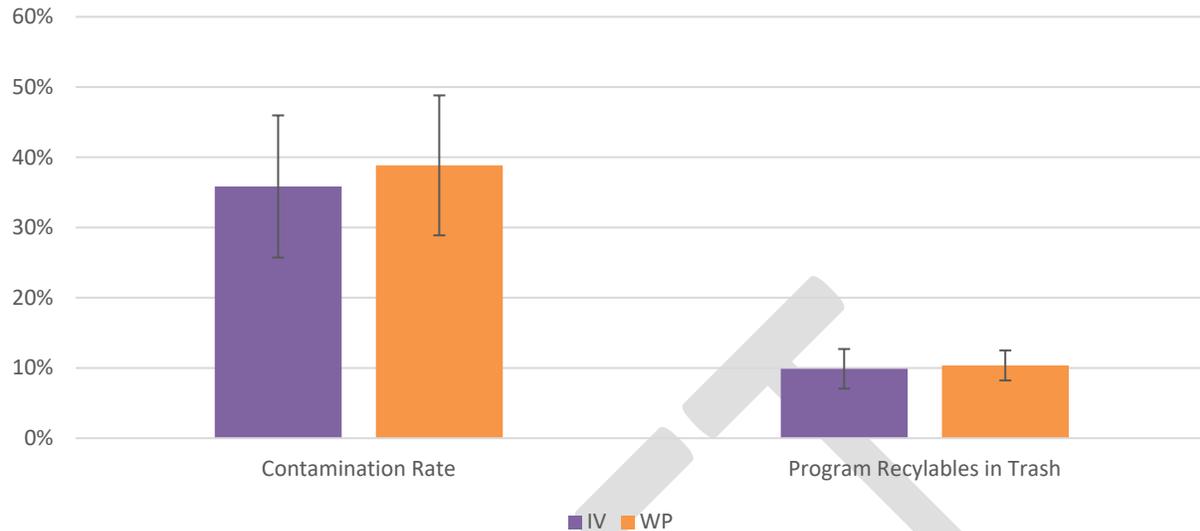
- Plastic Containers that are not accepted in the City’s Program comprised almost 3 percent of the waste.
- Bagged Waste, for the most part, was the driver behind the contamination rate. Area 2 – Monday and Area 3 – Wednesday had relatively low percentages of Bagged Waste and as a result, much lower contamination. While the Bagged Waste percentage was low for Area 2 – Thursday, one sample had very high Bulky Rigid Plastics (a plastic drawer set) and high Hazardous/Special Waste (full jugs of motor oil), which increased contamination.

Trash Stream

- About 10 percent of the trash stream were Program Recyclables, over half of which was Mixed Recyclable Paper.
- Nearly 50 percent of the trash stream was potentially compostable materials. Food Waste was the predominant material in this group, but Yard Waste (grass clippings in particular) had a high percentage as well.
- Glass Bottles and Jars (about 6 percent), Disposable Diapers (almost 5 percent), and C&D Waste (over 3 percent) were some of the more significant individual other material types in the trash stream.
- All Other Garbage comprised about 8 percent of the trash stream. This included many different types of materials, but one of the most prominent materials in this category, by weight, was cat litter. This was particularly true for samples in Area 2 – Thursday.
- The Services Areas and days all had similar total percentage of Program Recyclables in the trash stream. Areas 2 – Tuesday and Area 2 – Thursday had lower percentages of Potentially Compostable Materials. In addition to a high percentage of All Other Garbage (due mostly to large quantities of cat litter), Area 2 – Thursday also had high percentages of Textiles and Shoes.

**Table 3: Composition Summary**

	Area 2			Area 3			Combined	90% Confidence Interval	
	Mon	Tue	Thu	Mon	Wed	Thu		Lower Bounds	Upper Bounds
<b>Recycling Stream</b>									
Program Recyclable Paper	58.6%	46.9%	48.4%	42.7%	46.3%	39.1%	<b>46.0%</b>	39.6%	52.4%
Program Recyclable Containers	21.0%	12.8%	13.0%	14.2%	25.1%	16.6%	<b>16.5%</b>	12.4%	20.7%
Contamination	20.4%	40.2%	38.6%	43.1%	28.7%	44.3%	<b>37.5%</b>	30.8%	44.1%
<b>Trash Stream</b>									
Program Recyclable Paper	6.8%	6.6%	9.0%	5.2%	8.5%	7.9%	<b>7.3%</b>	5.8%	8.8%
Program Recyclable Containers	1.9%	2.6%	2.9%	3.6%	2.2%	4.2%	<b>2.9%</b>	2.4%	3.5%
Potentially Compostable Materials	50.9%	39.8%	32.2%	54.4%	48.6%	48.8%	<b>46.3%</b>	42.0%	50.6%
All Other Materials	40.4%	50.9%	56.0%	36.8%	40.7%	39.1%	<b>43.5%</b>	39.5%	47.6%

**Figure 3: Contamination Rate and Program Recyclables in Trash – Service Area Comparison**


Note: Error bars represent 90 percent confidence intervals.

### Generation, Recovery, and Capture Results

Table 4 shows the generation (pounds/household/year), recovery, and capture rates for each collection day by Service Area and the combined average. Figure 4 compares average waste and recycling stream generation rates and actual recovery rates between the two Service Areas. Figure 5 compares the average Program Recyclables generation rates and average overall capture rates of Program Recyclables between the two Service Areas. Generation and capture rates of individual Program Recyclables are in Attachment E.

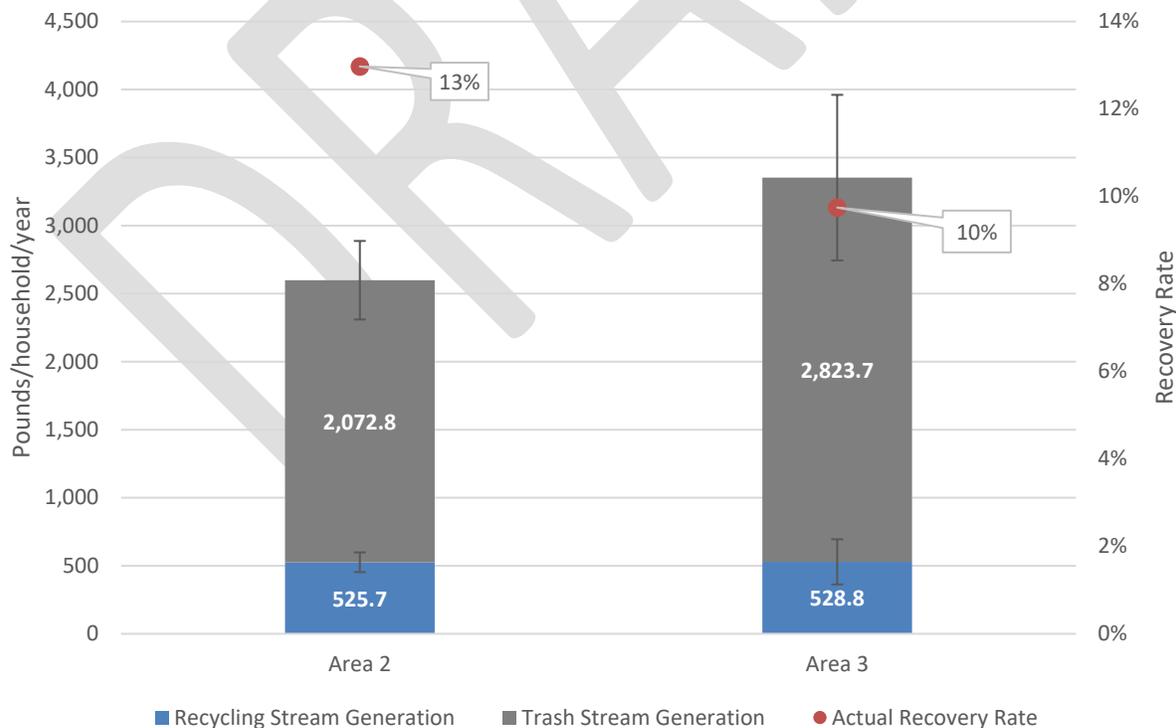
Key findings from the generation, capture, and recovery results include:

- On average, the areas included in the study generated 527 pounds of recycling and 2,424 pounds of trash per household per year, with an actual recovery rate of 11 percent and recyclables capture rate of 57 percent.
- The overall generation of the recycling stream was similar between the two Service Areas. Area 3 had a higher average percentage of Program Recyclable Containers than Area 2.
- Area 3 also showed the most variability for generation of recycling, with the highest (Monday) and lowest (Wednesday) average recycling generation rates by collection day. It should be noted that Area 3 – Monday also had the highest percentage and generation of contaminants in the recycling stream.
- Area 2 had a lower average trash generation rate than Area 3, in fact all of the collection days had lower average trash generation rates than the collection days in Area 3; however, Area 3 also showed a higher variability, which resulted in overlapping confidence intervals. The lower average generation of trash resulted in a higher recovery rate for Area 2.
- Area 2 also had a higher average recyclables capture rate than Area 3.
- Corrugated Cardboard and PET Bottles, Jugs, and Jars – Clear had the highest capture rates (over 60 percent) of individual materials while PET Bottles, Jugs, and Jars – Opaque/Pigmented and Tin/Steel Cans had the lowest (25 and 33 percent, respectively).

**Table 4: Generation (pounds/household/year), Capture, and Recovery Rates**

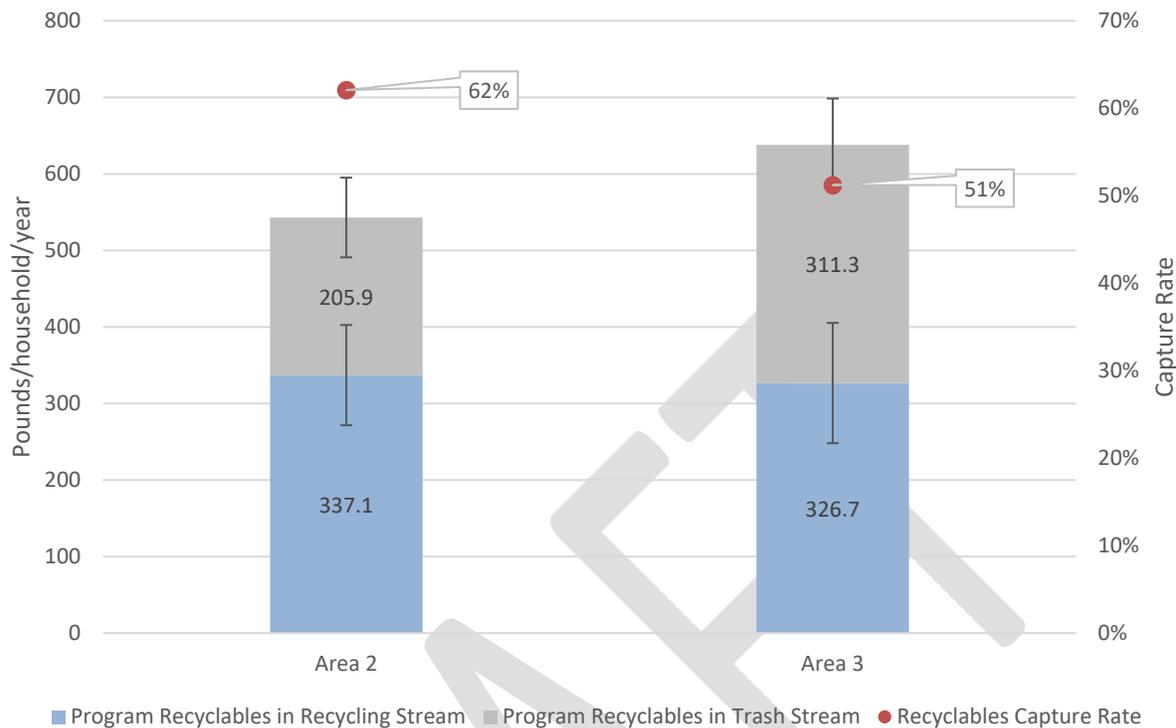
	Area 2			Area 3			Combined	90% Confidence Interval	
	Mon	Tue	Thu	Mon	Wed	Thu		Lower Bounds	Upper Bounds
<b>Recycling Stream</b>									
Program Recyclable Paper	270.6	271.9	227.7	299.2	187.5	208.5	<b>240.1</b>	190.4	289.8
Program Recyclable Containers	96.8	77.4	61.1	121.4	108.6	88.3	<b>92.0</b>	80.5	103.4
Contamination	94.3	247.6	181.3	335.5	125.5	236.2	<b>195.1</b>	128.4	261.9
<b>Total</b>	<b>461.8</b>	<b>596.9</b>	<b>470.1</b>	<b>756.0</b>	<b>421.6</b>	<b>533.0</b>	<b>527.2</b>	<b>439.3</b>	<b>615.1</b>
<b>Trash Stream</b>									
Program Recyclable Paper	134.5	143.0	183.9	197.0	224.1	189.0	<b>184.9</b>	149.4	220.3
Program Recyclable Containers	37.3	59.6	59.4	127.9	57.2	99.7	<b>70.3</b>	57.7	82.9
Potentially Compostable Materials	1,012.0	896.2	660.9	1,637.0	1,269.3	1,163.4	<b>1,120.0</b>	901.9	1,338.1
All Other Materials	802.8	1,035.1	1,149.9	1,065.1	1,064.9	931.4	<b>1,048.5</b>	873.6	1,223.4
<b>Total</b>	<b>1,986.6</b>	<b>2,133.9</b>	<b>2,054.2</b>	<b>3,027.0</b>	<b>2,615.4</b>	<b>2,383.6</b>	<b>2,423.7</b>	<b>2,077.7</b>	<b>2,769.6</b>
<b>Total Generation</b>	<b>2,448.3</b>	<b>2,730.8</b>	<b>2,524.3</b>	<b>3,783.0</b>	<b>3,037.0</b>	<b>2,916.6</b>	<b>2,950.9</b>	<b>2,569.0</b>	<b>3,332.8</b>
<b>Apparent Recovery Rate</b>	19%	22%	19%	20%	14%	18%	18%	15%	20%
<b>Actual Recovery Rate</b>	15%	13%	11%	11%	10%	10%	11%	10%	13%
<b>Recyclables Capture Rate</b>	68%	63%	54%	56%	51%	51%	57%	51%	62%

**Figure 4: Total Generation and Recovery Rate – Service Area Comparison**



Note: Error bars represent 90 percent confidence intervals.

**Figure 5: Program Recyclables Generation and Capture Rate – Service Area Comparison**



Note: Error bars represent 90 percent confidence intervals.

**Conclusions**

The goal of this Study was to evaluate the performance of the City’s subscription-based curbside recycling program through measuring the composition and generation of the trash and recycling stream at subscription households in order to calculate the recovery rate of recyclables in the City’s program. The following are overall findings and conclusions from the Study.

- Despite the 40 percent contamination rate, the recyclables appeared fairly clean and did not have a high percentage of loose contaminants and very low percentages of loose food waste or other putrescible materials. Bagged Waste was the biggest issue for contamination. This was likely due to people using their recycling cart as a second garbage can, either intentionally or accidentally. Some residents had a black recycling cart that looked very similar to the garbage carts, but smaller, which could lead to confusion.

Residents may also be confused over what materials are accepted in the City’s program. Almost 10 percent of the recycling was glass, plastic containers, and paper cartons that are frequently accepted in other recycling programs around the country but are not included in the City’s program.

Deducting these materials from the contamination, the contamination rate is close to 10 percent, which is very low contamination rate for single-stream recycling.

- While the percentage of Program Recyclables in the trash stream was low (about 10 percent), the high quantity of trash, compared to recycling, resulted in a recyclables capture rate of less

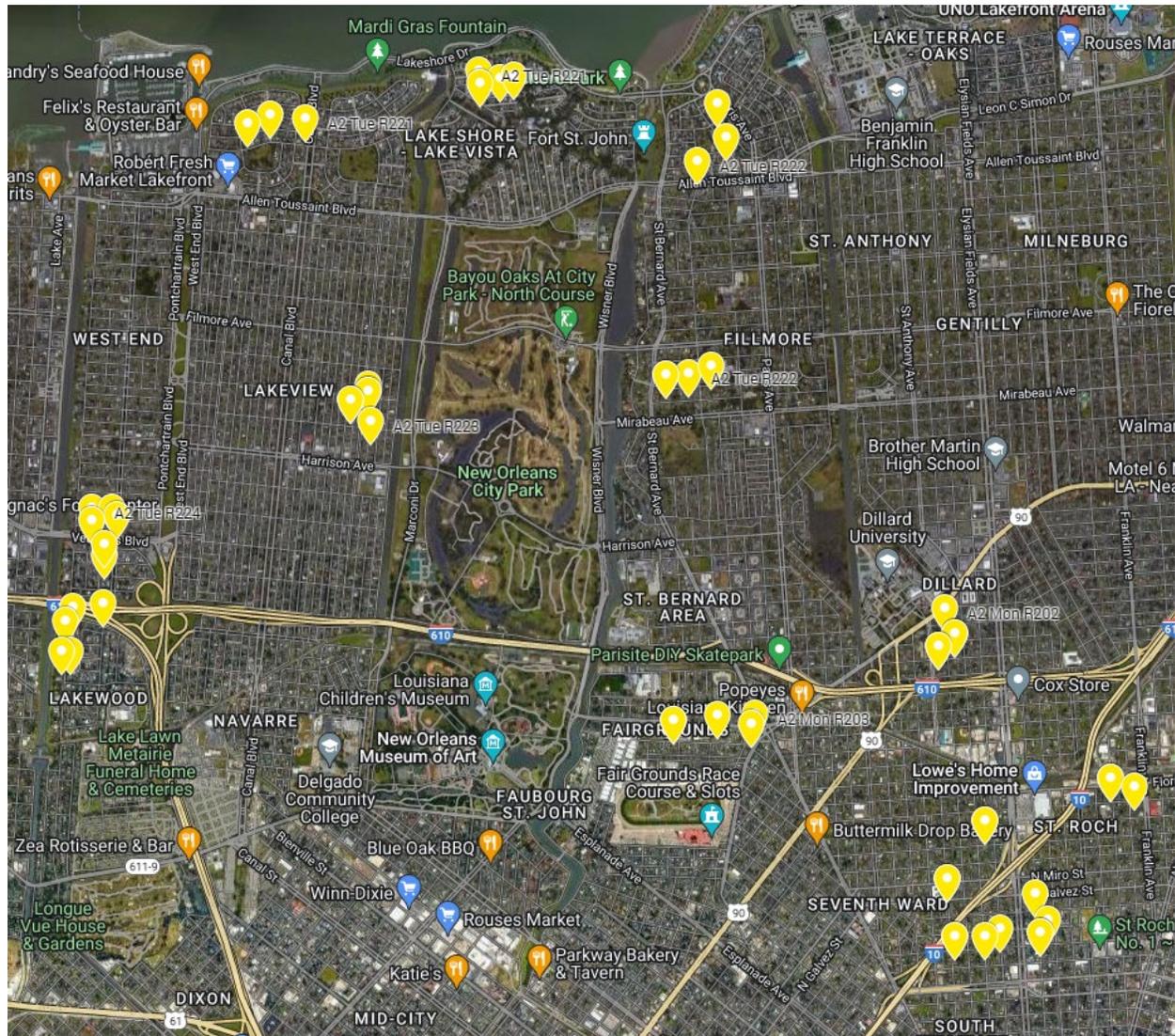
than 60 percent. The City still has opportunities to increase the recyclables that are captured at these households, all of whom are already subscribers to the recycling program.

- One limitation to this Study is that it was designed to only measure material from households that subscribe to the recycling program. If non-subscribers' waste was included in the calculation, the overall Citywide recyclables capture rate would be much lower. Additionally, this Study only measured material from those recycling subscribers that set out their carts the week of the Study; therefore, depending on the average setout rate, the recycling generation for all subscribers may be lower.
- KCI understands the City is working with TRP to transition to universal carted recycling. This will increase the overall tons of recycling collected and therefore increase the Citywide capture rate (which was not measured in this Study). However, universal recycling should be paired with robust outreach and education efforts so that the increased tonnages doesn't also increase contamination. A follow-up capture study could be conducted to evaluate the performance of the future universal recycling program and compare it to the metrics measured in this Study.
- In addition to recycling, the City may want to consider a food waste composting program. This could take many forms from promoting backyard and community composting to a Citywide curbside organics program. Targeting organics could significantly reduce the amount of material in the trash stream, which could have the side benefit of residents having more space in their trash carts and not placing overflow trash in their recycling carts.

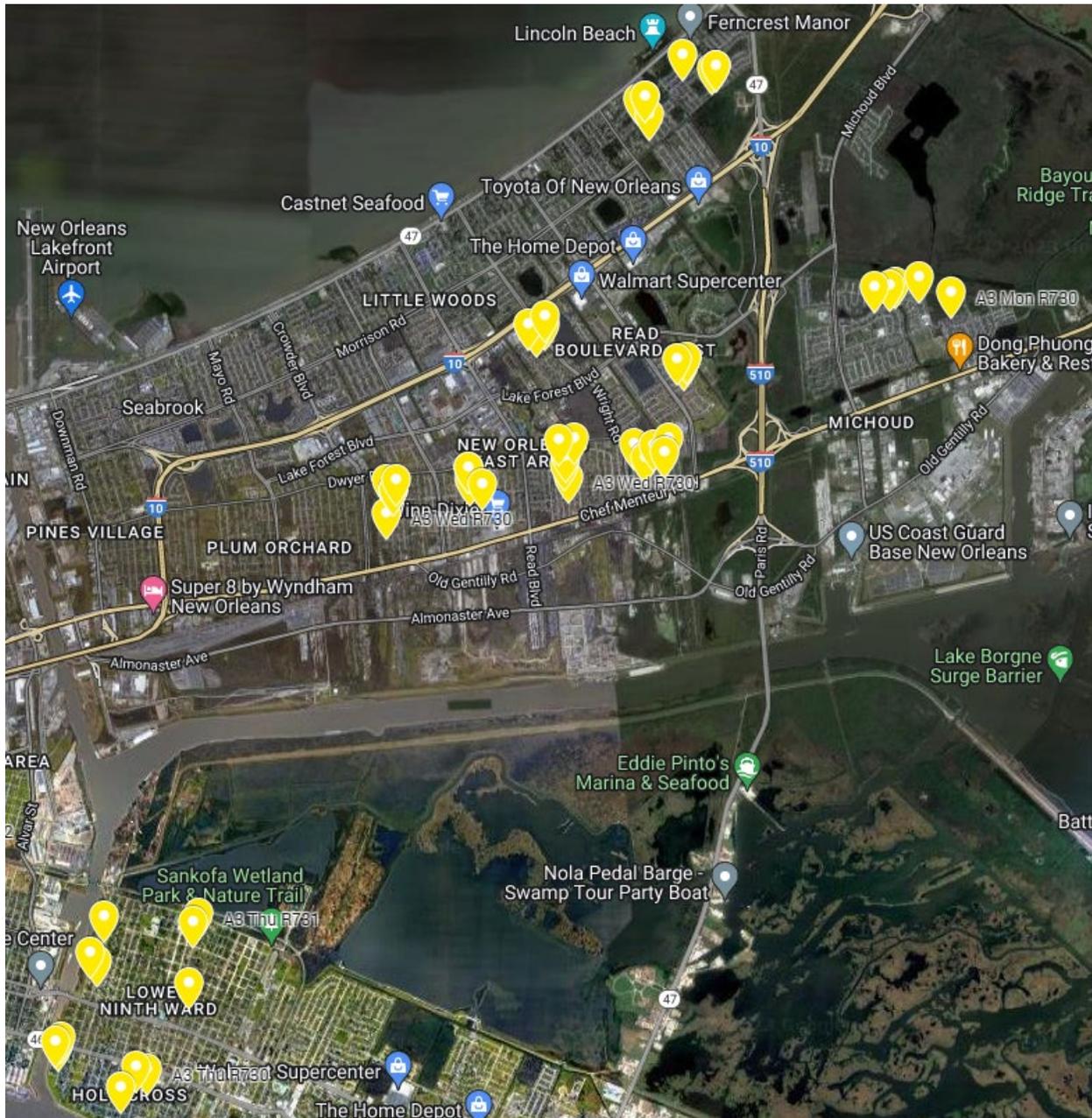
KCI would like to thank all City staff that assisted in planning and execution of the field work. KCI would also like to thank staff at IV Waste and Waste Pro for their assistance in planning the collection areas for the study and staff at River Birch Landfill for use of their site and coordination throughout the fieldwork. KCI appreciates the opportunity to work with TRP and the City and we look forward to working with these parties again in the future.

## ATTACHMENT A: MAPS OF COLLECTED HOUSEHOLDS

Figure A-1: Collected Households – Area 2



**Figure A-2: Collected Households – Area 3**



## ATTACHMENT B: MATERIAL CATEGORY DESCRIPTIONS

#	Material Categories	Description of Categories
1	<b>Corrugated Cardboard</b>	Uncoated cardboard boxes with a wavy core, (no plastic liners, waxy coatings). Examples include shipping and moving boxes and packaging boxes. Includes clean pizza boxes (less than 50% coated with grease or food). <i>Does not include waxy or contaminated cardboard.</i>
2	<b>Mixed Recyclable Paper</b>	Printed or unprinted recyclable paper including white, colored, coated, and uncoated papers, envelopes, index cards, file folders, magazines, telephone books, catalogs, paperboard, chipboard, Kraft paper, brown paper bags, mail, paperback books, blueprints, and other printed material on glossy and non-glossy paper. Also includes newspaper (loose or tied) including other paper normally distributed inside newspaper such as ads, flyers, etc. and other items made from newsprint such as advertising guides. <i>Does not include shredded, contaminated, waxy, or metallic paper.</i>
3	<b>Wet Paper and Cardboard (Recycling Only)</b>	Corrugated cardboard or mixed paper that is waterlogged or has lost structural integrity due to moisture. <i>Does not include damp or contaminated cardboard or paper.</i>
4	<b>Aseptic Boxes and Gable Top Cartons</b>	Aseptic Containers: poly-coated fiber and foil containers (e.g., Tetra Pak®) designed for shelf-stable packaging, most often containing juice drinks, coconut waters, and dairy substitutes including soy, almond, rice milk, etc. May also include soups, broths, sauces, and liquid refills. Cartons: poly-coated containers with a gable shaped top, most often containing refrigerated juice drinks, dairy products, dairy substitutes. May also contain flowable foods (e.g., eggs, sugar, molasses, crackers, candies, etc.). <i>Does not include Chinese take-out cartons, ice cream cartons, or similar items.</i>
5	<b>Compostable Paper</b>	Low grade paper that is not recyclable, as well as paper contaminated with food or water-saturated paper. Examples include paper towels, uncoated paper plates/cups/bowls, soiled pizza boxes (more than 50% coated with grease or food), fiber egg cartons, and tissues. <i>Does not include non-recyclable paper contaminated with food.</i>
6	<b>Non-Recyclable Paper</b>	Includes paper products with a plastic coating. Also includes items that are predominantly paper with other materials attached (e.g., orange juice cans and spiral notebooks) and other hard to recycle paper items such as carbon copy paper, receipts, hardcover books, and photographs. The items may be clean, or food soiled. <i>Does not include contaminated paper or OCC.</i>
7	<b>PET Bottles, Jugs, Jars – Clear (#1)</b>	Clear or light tinted translucent green/blue polyethylene terephthalate (PET #1) bottles, jars, and jugs. Examples include bottled water, other bottled beverages, salad dressing, food sauce, and some household cleaning products. Also includes jars or canisters, such as for peanut butter, that are blow molded or injection blow molded. Caps/lids left on if attached.
8	<b>PET Bottles, Jugs, Jars - Opaque/Pigmented (#1)</b>	Opaque/pigmented bottles PET #1, jars, and jugs. Examples include non-transparent bottled beverages, salad dressing, food sauce, and some household cleaning products. Also includes jars or canisters, such as for peanut butter, that are blow molded or injection blow molded. Caps/lids left on if attached.
9	<b>PET Clamshells (#1)</b>	Clamshell-style to-go containers made from PET #1 of any color.
10	<b>PET Drink Cups (#1)</b>	Plastic single-use drinking cups made from PET #1 of any color.

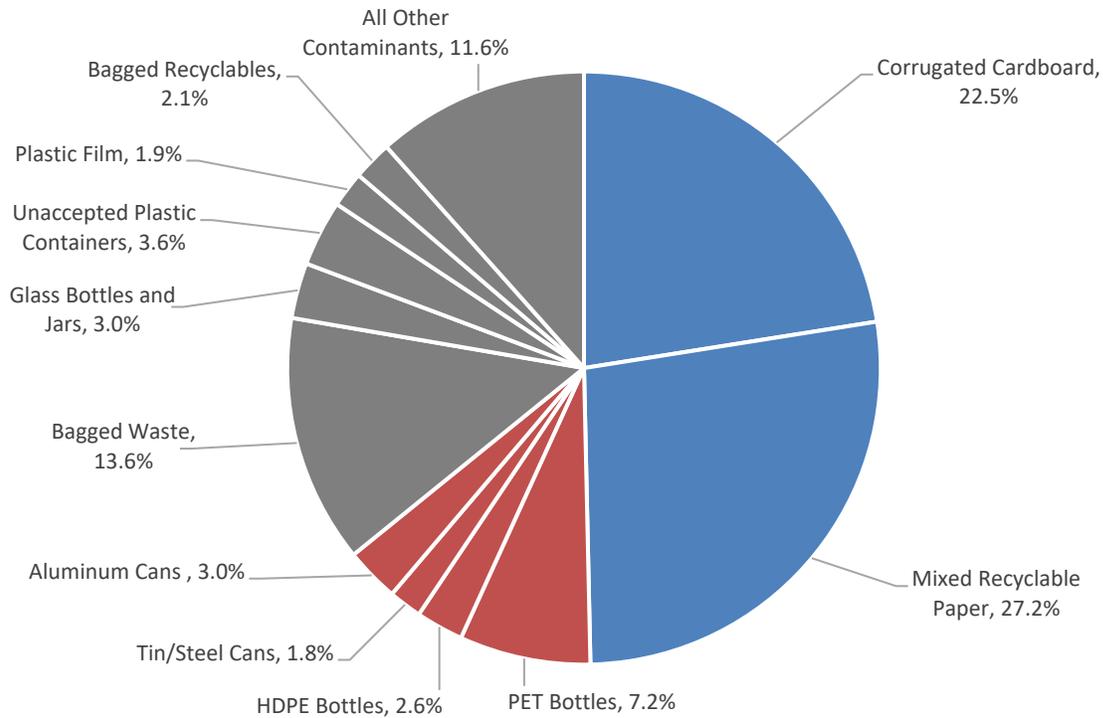
#	Material Categories	Description of Categories
11	<b>Other PET Non-bottle Rigid - Clear (#1)</b>	Other clear or translucent plastic single-use rigid containers that do not fit in other PET categories above, such as tubs, non-drinking cups, fruit or vegetable platters and frozen food trays, made of PET #1.
12	<b>Other PET Non-bottle Rigid - Opaque/Pigmented (#1)</b>	Other opaque/pigmented plastic single-use rigid containers that do not fit in other PET categories above, such as tubs, non-drinking cups, fruit or vegetable platters and frozen food trays, that are not transparent and are made of PET #1.
13	<b>Natural HDPE Bottles (#2)</b>	Clear/natural plastic bottles coded high-density polyethylene (HDPE #2). Examples include milk jugs, vinegar bottles, and gallon water bottles. <i>Does not include loose caps and lids.</i>
14	<b>Colored HDPE Bottles (#2)</b>	Opaque, pigmented plastic bottles coded HDPE #2. Examples include detergent and shampoo bottles. <i>Does not include loose caps and lids.</i>
15	<b>Non-Bottle HDPE Containers (#2)</b>	Wide-mouthed tubs and containers coded HDPE #2. Examples include large plastic coffee containers and plastic chip tubes, including lids.
16	<b>PP Bottles, Jars, Jugs (#5)</b>	Polypropylene (PP #5) screw top bottles such as tea and juice beverages, syrup bottles, shampoo/personal care product, prescription bottles and storage bottles or jars of any color. Caps/lids left on if attached.
17	<b>PP Clamshells (#5)</b>	Clamshell-style to-go containers made from PP #5.
18	<b>PP Tubs (#5)</b>	Round or squarish tubs made from PP #5, such as yogurt and sour cream tubs and deli tubs. Includes smaller yogurt and fruit sauce cups.
19	<b>PP Drink Cups (#5)</b>	Plastic single-use drinking cups made from PP #5.
20	<b>Other PP Non-bottle Rigid (#5)</b>	Plastic single-use rigid containers that do not fit in other PP categories above made of PP #5.
21	<b>Other Plastic Drink Cups (#3, #4, #6, #7)</b>	Plastic single-use drinking cups that do not fit in other categories above. Examples include polystyrene (not foam) drinking cups.
22	<b>Other Small Rigid Packaging Containers (#3, #4, #6, #7)</b>	All single resin plastic containers coded #3, #4, #6, or #7 that do not fit in any categories above.
23	<b>Expanded Polystyrene Foam</b>	Food service polystyrene, polystyrene packaging, and packaging “peanuts.” Any expanded foam product labeled #6.
24	<b>Plastic Bags and Clean Film</b>	Plastic grocery “t-shirt” and retail bags; bread and produce bags; newspaper bags ( <b>Trash Only</b> ); napkin, towel, tissue, diaper overwrap; bottled water case wrap; dry cleaner film bags; case and stretch wrap; and clean food storage (“Ziploc®”) bags. Outer mail pouch made from plastic, air cushion pillows, and bubble wrap.
25	<b>Plastic Garbage Bags</b>	Plastic garbage bags, including single-use shopping bags reused as garbage bags.
26	<b>Other Plastic Film/Flexibles</b>	All other film packaging, including multi-layer and opaque food packaging such as chip bags, candy bar wrappers, prewashed salad bags, frozen food bags, pet food bags, landscaping bags and all other film items. Includes plastic “Saran®” wrap and dirty Ziploc® bags. Flexible packaging in a stand-up pouch format, including resealable stand-up pouches and those with a rigid plastic closure (typically opaque, may have a silver inner lining). Examples include baby food or pet food pouches, juice pouches, applesauce pouches, soap/detergent refills, stand up resealable packaging for granola, snacks, sugar, etc. Plastic squeeze tubes with a semi-flexible body (i.e., shampoo, crushed garlic) from plastic tubes.

#	Material Categories	Description of Categories
27	<b>Bulky Rigid Plastics</b>	Non-container rigid plastic items such as clothes hangers, plastic drums, crates, buckets, baskets, toys, refuse totes, lawn furniture, flowerpots, laundry baskets, and other large plastic items. <i>Does not include electronic or electric toys, or bulky items consisting of mixed material.</i>
28	<b>Unacceptable Rigid Plastics</b>	All other rigid plastics not categorized elsewhere. Examples include loose caps/lids (less than 2" in diameter), and predominately plastic with other materials attached such as disposable razors, pens, lighters, fast food lids and straws, toothbrushes, plastic cutlery, and 3-ring binders.
29	<b>Tin/Steel Cans</b>	Tin-plated steel cans, usually food containers, including labels. Includes steel caps. <i>Does not include paint cans.</i>
30	<b>Aluminum Cans</b>	Aluminum soft drink, beer, and food cans.
31	<b>Aluminum Foil and Trays</b>	Aluminum foil and food trays, such as disposable pie plates and catering trays.
32	<b>Unacceptable Metals</b>	All ferrous/magnetic and nonferrous/non-magnetic metal products such as wire hangers and metal scrap such as window frames and cookware, including stainless steel, empty and punctured tanks for liquid and gaseous fuels, oil filters, metal car parts, and all other items containing a mixture of metals, or metals and other materials, whose weight is derived significantly from the metal portion of its construction.
33	<b>Glass Bottles and Jars</b>	Any color soda, liquor, wine, juice, beer, and food bottles, jars, and containers, as well as broken container glass pieces ½" or greater in size ( <b>Recycling only</b> ).
34	<b>Unacceptable Glass, Ceramics, and Porcelain</b>	Window glass, light bulbs (except fluorescent tubes), mirrors, and glassware. Also includes finished ceramic or porcelain products such as dishware, toilets, etc.
35	<b>Food Waste</b>	All loose or containerized food waste.
36	<b>Yard Waste</b>	Shrub and brush prunings, household bedding plants, weeds, leaves, grass clippings, and other landscaping and gardening wastes. Includes planting media (soil, compost, peat moss, etc.).
37	<b>Textiles and Shoes</b>	Clothing, rags, and accessories made of natural and synthetic textiles such as cotton, wool, silk, woven nylon, rayon, polyester, leather, and other materials. Examples include pants, shirts, fabric purses, bed sheets, towels, and shoes. Includes carpet and carpet padding.
38	<b>Construction and Demolition (C&amp;D) Waste</b>	Dimensional lumber, pallets/crates, treated/contaminated wood, gypsum, insulation, rock/concrete/bricks, asphalt shingles/roofing, other construction debris, and mixed fine building material scraps.
39	<b>Hazardous/Special Waste</b>	Paints and solvents, glues, and adhesives, caulking compounds and grouts, hazardous cleaners and household chemicals, pesticides/herbicides, oil/gas/fuel tanks, and any substances or products containing potentially hazardous chemicals. Also includes non-hazardous soaps, cleaners, medicines, cosmetics, fire extinguishers, and other household chemicals.
40	<b>Batteries</b>	All small household batteries including single-use alkaline, lithium, button cell, or coin cell batteries and rechargeable Ni-MH, Ni-Cd, and lithium-ion batteries.
41	<b>Sharps</b>	All syringes or other kinds of injection devices.

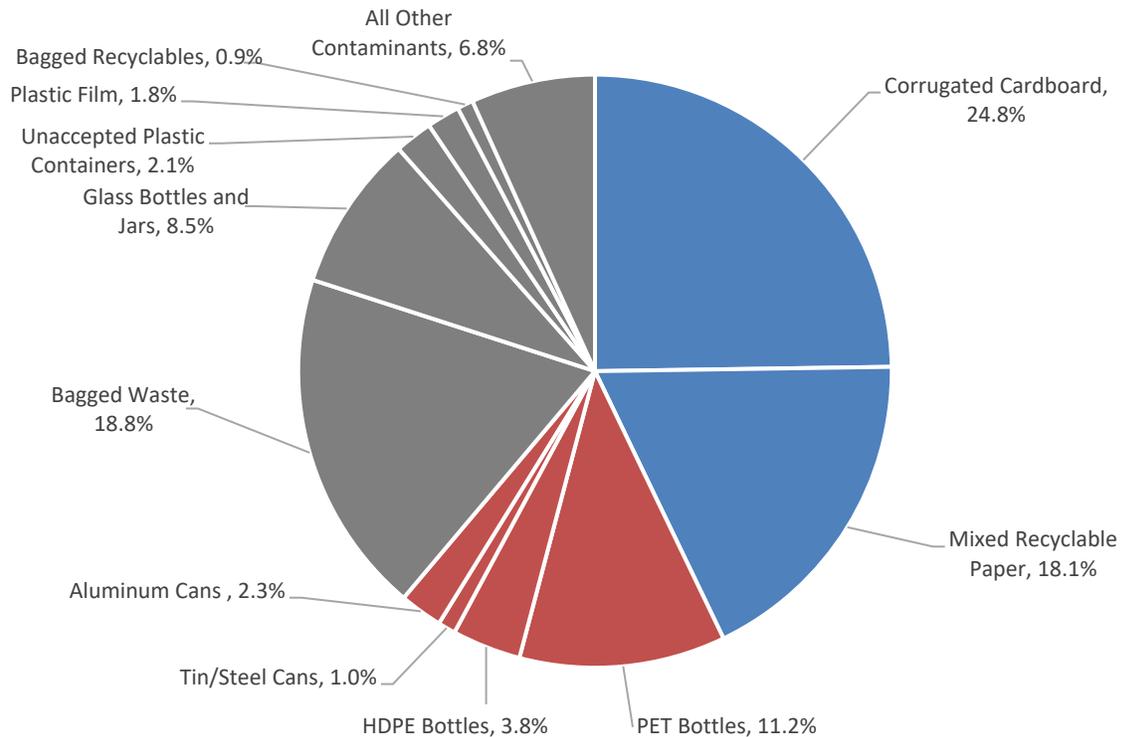
#	Material Categories	Description of Categories
42	<b>E-Waste &amp; Small Appliances</b>	Electronics and household appliances primarily composed of mixed materials (plastic, metal, and glass), such as coffee makers, microwaves, fans, irons, hair dryers, electrical kitchen ware, and salvageable items such as machinery.
43	<b>Bulky Items</b>	Includes items like furniture, tires, or other large materials that do not fit in other categories above.
44	<b>Tanglers (Recycling Only)</b>	Any materials that could potentially be tanglers during processing, such as hoses, extension cords, and Christmas lights.
45	<b>Bagged Recyclables (Recycling Only)</b>	Any bagged material with less than 20% non-recyclables.
46	<b>Bagged Waste (Recycling Only)</b>	Any bagged material with more than 20% non-recyclables or heavily contaminated recyclables. <i>Does not include clean, bagged recyclables.</i>
47	<b>Disposable Diapers</b>	Disposable baby diapers and adult protective undergarments.
48	<b>Other Contaminants (Recyclables) / All Other Garbage (Trash)</b>	Materials not included in the other categories, including composite materials, interlocked products that cannot be separated, pet waste, full containers of liquids (more than 25% full) ( <b>Recycling Only</b> ), film-wrapped paper ( <b>Recycling Only</b> ), and grit/fines (any material that fall through the ½" screen).
49	<b>Liquids</b>	All liquids in containers ( <b>Trash Only</b> ). Liquids in containers less than 25% full ( <b>Recycling Only</b> ).

## ATTACHMENT C: DETAILED COMPOSITION RESULTS

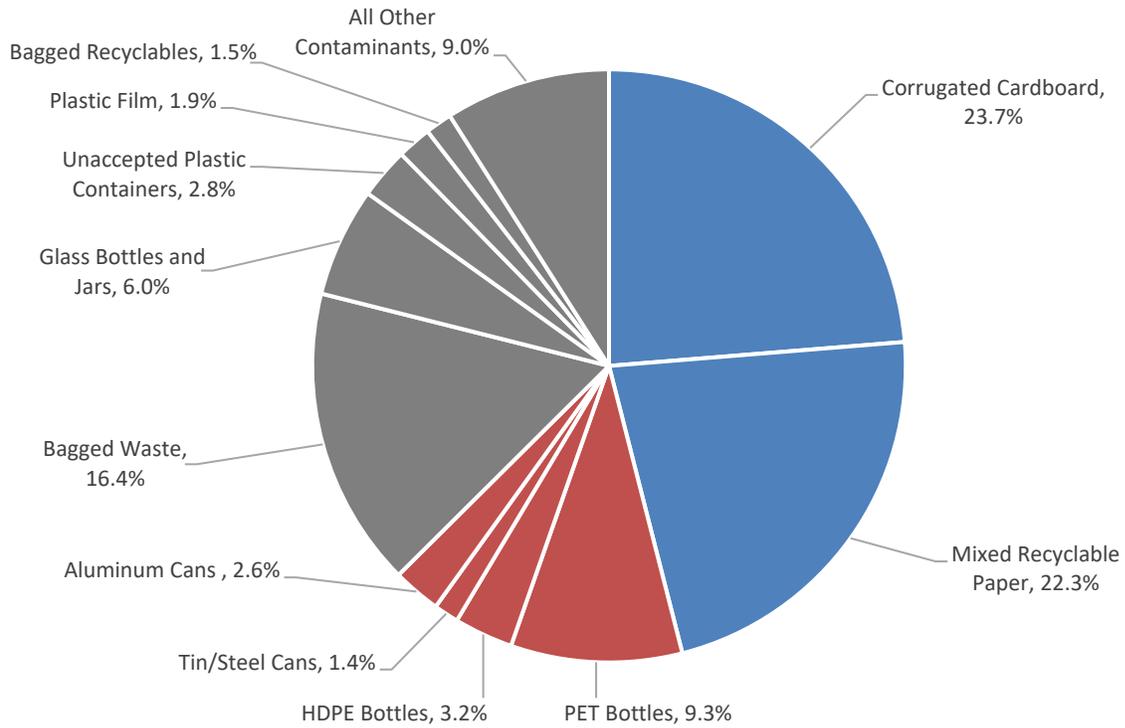
**Figure C-1: Recyclables Composition – Service Area 2 (percent by weight)**



**Figure C-2: Recyclables Composition – Service Area 3 (percent by weight)**



**Figure C-3: Recyclables Composition – Combined (percent by weight)**



**Table C-1: Recycling Composition – Service Area 2 (percent by weight)**

Material Category	Mon	Tue	Thu	Weighted Average	90% Confidence Interval	
					Lower Bounds	Upper Bounds
Corrugated Cardboard	16.8%	21.0%	29.7%	<b>22.5%</b>	16.7%	28.3%
Mixed Recyclable Paper	41.8%	25.9%	18.8%	<b>27.2%</b>	20.6%	33.7%
<b>Accepted Recyclable Paper</b>	<b>58.6%</b>	<b>46.9%</b>	<b>48.4%</b>	<b>49.7%</b>	<b>40.2%</b>	<b>59.1%</b>
PET Bottles, Jugs, Jars – Clear (#1)	9.5%	7.2%	4.7%	<b>7.0%</b>	5.1%	8.8%
PET Bottles, Jugs, Jars - Op/Pig. (#1)	0.0%	0.2%	0.2%	<b>0.2%</b>	0.0%	0.3%
Natural HDPE Bottles (#2)	1.2%	1.0%	1.4%	<b>1.2%</b>	0.8%	1.5%
Colored HDPE Bottles (#2)	2.9%	1.1%	1.0%	<b>1.4%</b>	0.8%	2.0%
Tin/Steel Cans	1.9%	1.0%	3.3%	<b>1.8%</b>	1.1%	2.5%
Aluminum Cans	5.3%	2.3%	2.5%	<b>3.0%</b>	1.9%	4.0%
<b>Accepted Recyclable Containers</b>	<b>21.0%</b>	<b>12.8%</b>	<b>13.0%</b>	<b>14.5%</b>	<b>11.7%</b>	<b>17.3%</b>
Wet Paper and Cardboard	0.0%	0.1%	0.0%	<b>0.0%</b>	0.0%	0.1%
Aseptic Boxes and Gable Top Cartons	1.9%	0.5%	0.5%	<b>0.8%</b>	0.3%	1.2%
Compostable Paper	0.5%	0.4%	0.1%	<b>0.3%</b>	0.2%	0.4%
Non-Recyclable Paper	0.2%	0.1%	1.1%	<b>0.4%</b>	-0.3%	1.0%
PET Clamshells (#1)	1.9%	1.5%	1.3%	<b>1.5%</b>	1.0%	2.1%
PET Drink Cups (#1)	0.1%	0.0%	0.1%	<b>0.1%</b>	0.0%	0.1%
Other PET Non-bottle Rigid - Clear (#1)	0.4%	0.0%	0.6%	<b>0.2%</b>	0.0%	0.5%
Other PET Non-bottle Rigid - Op/Pig. (#1)	0.2%	0.0%	0.1%	<b>0.0%</b>	0.0%	0.1%
Non-Bottle HDPE Containers (#2)	0.0%	0.3%	0.2%	<b>0.2%</b>	0.1%	0.3%
PP Bottles, Jars, Jugs (#5)	0.3%	0.2%	0.0%	<b>0.2%</b>	0.1%	0.3%
PP Clamshells (#5)	0.3%	0.1%	0.0%	<b>0.1%</b>	0.0%	0.2%
PP Tubs (#5)	0.4%	0.2%	0.5%	<b>0.3%</b>	0.2%	0.5%
PP Drink Cups (#5)	0.2%	0.1%	0.2%	<b>0.1%</b>	0.1%	0.2%
Other PP Non-bottle Rigid (#5)	0.0%	0.0%	0.3%	<b>0.1%</b>	0.0%	0.2%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.2%	0.2%	0.0%	<b>0.1%</b>	0.0%	0.3%
Other Small Rigid Pack. Conts. (#3, #4, #6, #7)	0.6%	0.6%	0.1%	<b>0.5%</b>	0.2%	0.8%
Expanded Polystyrene Foam	0.8%	0.2%	0.3%	<b>0.3%</b>	0.1%	0.6%
Plastic Bags and Clean Film	0.4%	1.5%	1.3%	<b>1.2%</b>	0.5%	1.9%
Plastic Garbage Bags	0.0%	0.0%	0.2%	<b>0.1%</b>	0.0%	0.1%
Other Plastic Film/Flexibles	1.1%	0.7%	0.2%	<b>0.7%</b>	0.3%	1.0%
Bulky Rigid Plastics	0.0%	1.1%	8.7%	<b>2.9%</b>	0.0%	5.9%
Unacceptable Rigid Plastics	0.9%	0.3%	0.7%	<b>0.5%</b>	0.3%	0.8%
Aluminum Foil and Trays	0.1%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.1%
Unacceptable Metals	0.3%	0.0%	0.1%	<b>0.1%</b>	0.0%	0.2%
Glass Bottles and Jars	1.9%	3.3%	3.3%	<b>3.0%</b>	0.2%	5.8%
Unacceptable Glass, Ceramics, and Porcelain	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.1%
Food Waste	0.1%	0.3%	0.8%	<b>0.4%</b>	-0.1%	0.9%
Yard Waste	0.0%	0.2%	0.0%	<b>0.1%</b>	0.0%	0.3%
Textiles and Shoes	2.0%	0.1%	0.1%	<b>0.5%</b>	-0.1%	1.1%
C&D Waste	0.0%	0.1%	0.1%	<b>0.1%</b>	0.0%	0.3%
Hazardous/Special Waste	0.4%	0.1%	7.1%	<b>2.0%</b>	-1.1%	5.1%
Batteries	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%
Sharps	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%
E-Waste & Small Appliances	0.0%	0.0%	1.2%	<b>0.3%</b>	-0.3%	1.0%
Bulky Items	2.7%	0.0%	0.0%	<b>0.5%</b>	-0.5%	1.6%
Tanglers	0.0%	0.4%	0.0%	<b>0.2%</b>	-0.1%	0.5%
Bagged Recyclables	0.0%	4.0%	0.0%	<b>2.1%</b>	0.0%	4.2%
Bagged Waste	0.9%	21.0%	8.2%	<b>13.6%</b>	3.9%	23.2%
Disposable Diapers	0.9%	0.0%	0.0%	<b>0.2%</b>	-0.1%	0.4%
Other Contaminants	0.9%	2.3%	1.1%	<b>1.7%</b>	0.9%	2.6%
<b>Total Contaminants</b>	<b>20.4%</b>	<b>40.2%</b>	<b>38.6%</b>	<b>35.8%</b>	<b>25.7%</b>	<b>46.0%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>		

Note: Columns may not appear to correctly sum due to rounding.

**Table C-2: Recycling Composition – Service Area 3 (percent by weight)**

Material Category	Mon	Wed	Fri	Weighted Average	90% Confidence Interval	
					Lower Bounds	Upper Bounds
Corrugated Cardboard	24.7%	27.2%	22.0%	<b>24.8%</b>	14.8%	34.7%
Mixed Recyclable Paper	18.0%	19.0%	17.1%	<b>18.1%</b>	13.0%	23.3%
<b>Accepted Recyclable Paper</b>	<b>42.7%</b>	<b>46.3%</b>	<b>39.1%</b>	<b>42.9%</b>	<b>33.4%</b>	<b>52.3%</b>
PET Bottles, Jugs, Jars – Clear (#1)	7.6%	16.8%	10.2%	<b>11.2%</b>	4.5%	17.9%
PET Bottles, Jugs, Jars - Op/Pig. (#1)	0.1%	0.0%	0.0%	<b>0.0%</b>	-0.1%	0.1%
Natural HDPE Bottles (#2)	1.7%	1.1%	1.7%	<b>1.5%</b>	0.3%	2.7%
Colored HDPE Bottles (#2)	1.8%	3.2%	1.7%	<b>2.3%</b>	1.1%	3.4%
Tin/Steel Cans	0.2%	2.0%	0.9%	<b>1.0%</b>	0.1%	1.8%
Aluminum Cans	2.8%	1.9%	2.1%	<b>2.3%</b>	1.2%	3.5%
<b>Accepted Recyclable Containers</b>	<b>14.2%</b>	<b>25.1%</b>	<b>16.6%</b>	<b>18.3%</b>	<b>10.7%</b>	<b>25.8%</b>
Wet Paper and Cardboard	0.1%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.1%
Aseptic Boxes and Gable Top Cartons	0.2%	1.1%	1.1%	<b>0.7%</b>	0.3%	1.2%
Compostable Paper	0.2%	0.6%	0.5%	<b>0.4%</b>	0.1%	0.8%
Non-Recyclable Paper	0.0%	0.2%	0.2%	<b>0.1%</b>	-0.1%	0.4%
PET Clamshells (#1)	0.1%	0.9%	0.7%	<b>0.5%</b>	0.0%	0.9%
PET Drink Cups (#1)	0.2%	0.1%	0.1%	<b>0.1%</b>	0.1%	0.2%
Other PET Non-bottle Rigids - Clear (#1)	0.6%	0.3%	0.0%	<b>0.4%</b>	0.0%	0.7%
Other PET Non-bottle Rigids - Op/Pig. (#1)	0.1%	0.0%	0.0%	<b>0.1%</b>	-0.1%	0.2%
Non-Bottle HDPE Containers (#2)	0.5%	0.3%	0.0%	<b>0.3%</b>	0.0%	0.6%
PP Bottles, Jars, Jugs (#5)	0.0%	0.2%	0.1%	<b>0.1%</b>	0.0%	0.3%
PP Clamshells (#5)	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%
PP Tubs (#5)	0.0%	0.3%	0.0%	<b>0.1%</b>	-0.1%	0.4%
PP Drink Cups (#5)	0.0%	0.1%	0.0%	<b>0.0%</b>	0.0%	0.1%
Other PP Non-bottle Rigids (#5)	0.1%	0.0%	0.0%	<b>0.1%</b>	-0.1%	0.2%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.0%	0.1%	0.2%	<b>0.1%</b>	0.0%	0.2%
Other Small Rigid Pack. Conts. (#3, #4, #6, #7)	0.6%	0.2%	0.0%	<b>0.3%</b>	0.1%	0.5%
Expanded Polystyrene Foam	0.6%	0.5%	0.1%	<b>0.4%</b>	0.2%	0.7%
Plastic Bags and Clean Film	0.7%	0.9%	1.7%	<b>1.0%</b>	0.6%	1.5%
Plastic Garbage Bags	0.1%	0.0%	0.0%	<b>0.1%</b>	-0.1%	0.2%
Other Plastic Film/Flexibles	0.5%	1.0%	0.8%	<b>0.7%</b>	0.3%	1.1%
Bulky Rigid Plastics	0.0%	0.0%	1.4%	<b>0.4%</b>	-0.6%	1.4%
Unacceptable Rigid Plastics	0.3%	0.4%	0.5%	<b>0.4%</b>	0.2%	0.6%
Aluminum Foil and Trays	0.1%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.1%
Unacceptable Metals	0.0%	0.1%	0.0%	<b>0.0%</b>	-0.1%	0.2%
Glass Bottles and Jars	13.5%	6.6%	3.0%	<b>8.5%</b>	4.1%	12.9%
Unacceptable Glass, Ceramics, and Porcelain	1.8%	0.0%	0.0%	<b>0.8%</b>	0.3%	1.2%
Food Waste	0.4%	0.4%	0.2%	<b>0.3%</b>	0.1%	0.6%
Yard Waste	0.0%	0.0%	2.9%	<b>0.8%</b>	-0.3%	1.9%
Textiles and Shoes	0.0%	0.2%	0.0%	<b>0.1%</b>	-0.1%	0.2%
C&D Waste	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%
Hazardous/Special Waste	0.0%	0.1%	0.0%	<b>0.0%</b>	0.0%	0.1%
Batteries	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%
Sharps	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%
E-Waste & Small Appliances	0.0%	0.4%	0.0%	<b>0.1%</b>	-0.3%	0.5%
Bulky Items	0.0%	2.1%	0.0%	<b>0.7%</b>	-0.5%	1.8%
Tanglers	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%
Bagged Recyclables	1.6%	0.7%	0.0%	<b>0.9%</b>	-0.1%	1.8%
Bagged Waste	20.2%	8.9%	28.6%	<b>18.8%</b>	8.7%	28.9%
Disposable Diapers	0.0%	0.0%	0.2%	<b>0.0%</b>	0.0%	0.1%
Other Contaminants	0.8%	1.7%	1.6%	<b>1.3%</b>	0.7%	1.9%
<b>Total Contaminants</b>	<b>43.1%</b>	<b>28.7%</b>	<b>44.3%</b>	<b>38.8%</b>	<b>28.9%</b>	<b>48.8%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>		

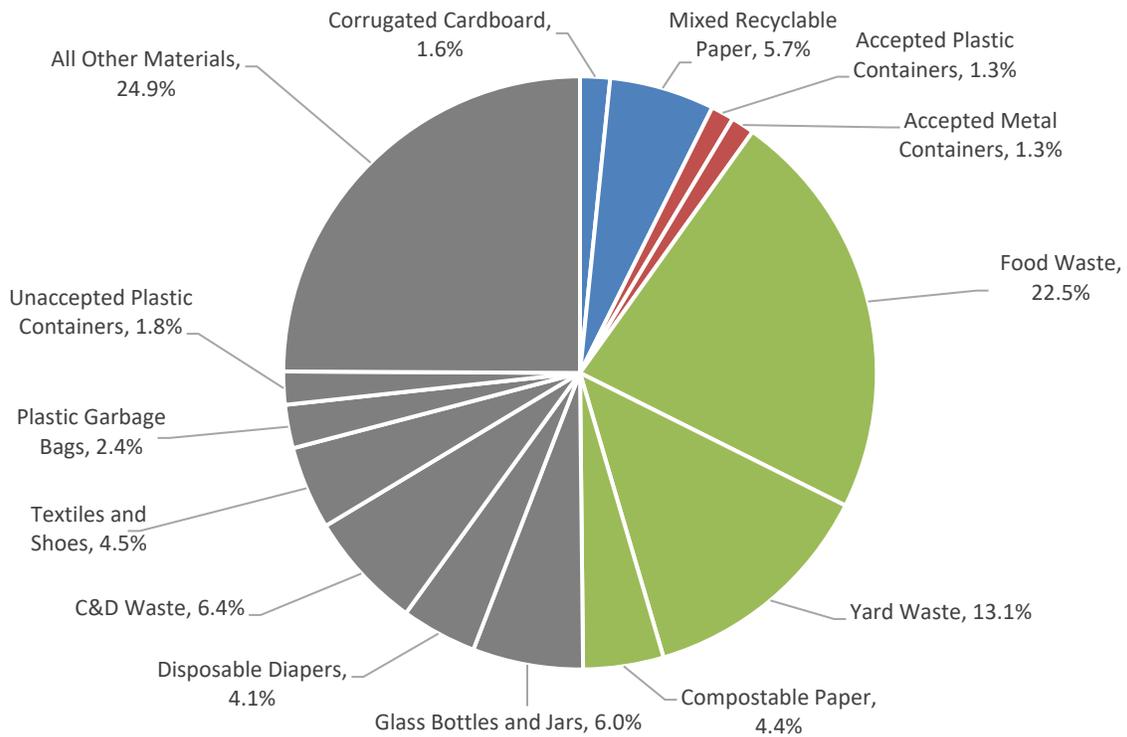
Note: Columns may not appear to correctly sum due to rounding.

**Table C-3: Recycling Composition – Combined (percent by weight)**

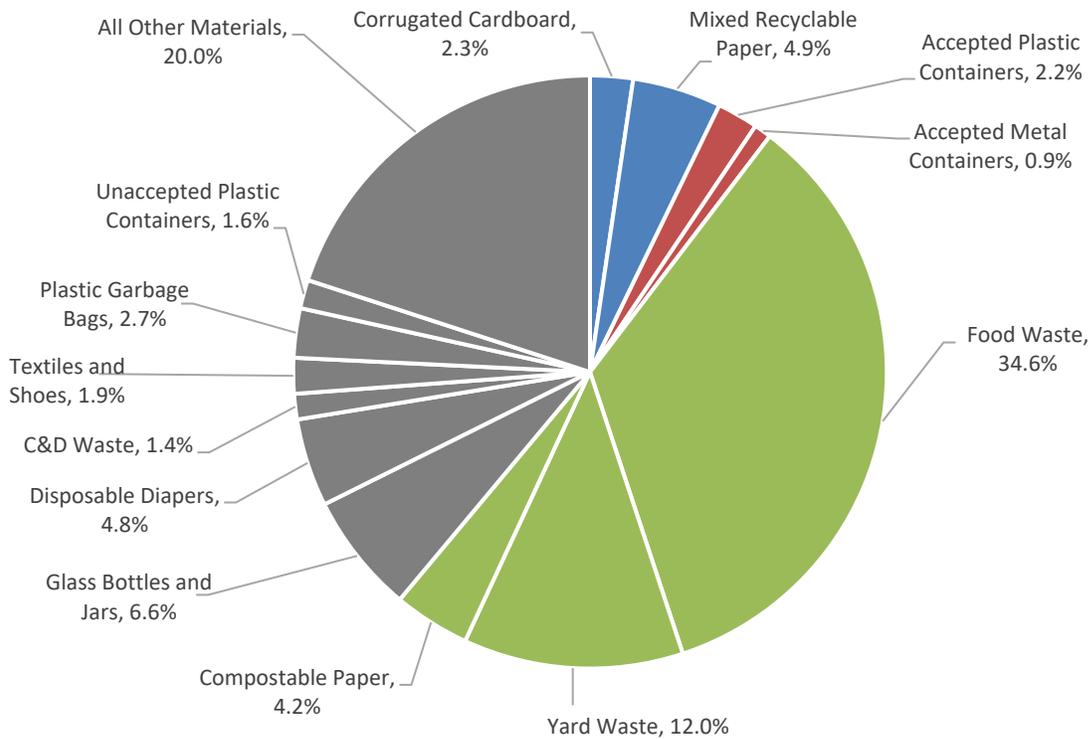
Material Category	Weighted Average	90% Confidence Interval	
		Lower Bounds	Upper Bounds
Corrugated Cardboard	23.7%	18.1%	29.3%
Mixed Recyclable Paper	22.3%	18.1%	26.6%
<b>Accepted Recyclable Paper</b>	<b>46.0%</b>	<b>39.6%</b>	<b>52.4%</b>
PET Bottles, Jugs, Jars – Clear (#1)	9.2%	5.6%	12.9%
PET Bottles, Jugs, Jars - Op/Pig. (#1)	0.1%	0.0%	0.2%
Natural HDPE Bottles (#2)	1.3%	0.7%	1.9%
Colored HDPE Bottles (#2)	1.9%	1.2%	2.5%
Tin/Steel Cans	1.4%	0.8%	1.9%
Aluminum Cans	2.6%	1.9%	3.4%
<b>Accepted Recyclable Containers</b>	<b>16.5%</b>	<b>12.4%</b>	<b>20.7%</b>
Wet Paper and Cardboard	0.0%	0.0%	0.1%
Aseptic Boxes and Gable Top Cartons	0.8%	0.5%	1.1%
Compostable Paper	0.4%	0.2%	0.6%
Non-Recyclable Paper	0.2%	-0.1%	0.6%
PET Clamshells (#1)	1.0%	0.6%	1.3%
PET Drink Cups (#1)	0.1%	0.1%	0.2%
Other PET Non-bottle Rigid - Clear (#1)	0.3%	0.1%	0.5%
Other PET Non-bottle Rigid - Op/Pig. (#1)	0.1%	0.0%	0.1%
Non-Bottle HDPE Containers (#2)	0.3%	0.1%	0.4%
PP Bottles, Jars, Jugs (#5)	0.1%	0.1%	0.2%
PP Clamshells (#5)	0.1%	0.0%	0.1%
PP Tubs (#5)	0.2%	0.1%	0.4%
PP Drink Cups (#5)	0.1%	0.0%	0.1%
Other PP Non-bottle Rigid (#5)	0.1%	0.0%	0.2%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.1%	0.0%	0.2%
Other Small Rigid Pack. Conts. (#3, #4, #6, #7)	0.4%	0.2%	0.6%
Expanded Polystyrene Foam	0.4%	0.2%	0.6%
Plastic Bags and Clean Film	1.1%	0.7%	1.5%
Plastic Garbage Bags	0.1%	0.0%	0.1%
Other Plastic Film/Flexibles	0.7%	0.5%	0.9%
Bulky Rigid Plastics	1.6%	0.1%	3.0%
Unacceptable Rigid Plastics	0.5%	0.3%	0.6%
Aluminum Foil and Trays	0.0%	0.0%	0.0%
Unacceptable Metals	0.1%	0.0%	0.2%
Glass Bottles and Jars	6.0%	3.4%	8.5%
Unacceptable Glass, Ceramics, and Porcelain	0.4%	0.2%	0.7%
Food Waste	0.4%	0.1%	0.6%
Yard Waste	0.5%	-0.1%	1.0%
Textiles and Shoes	0.3%	0.0%	0.5%
C&D Waste	0.1%	0.0%	0.1%
Hazardous/Special Waste	1.0%	-0.5%	2.4%
Batteries	0.0%	0.0%	0.0%
Sharps	0.0%	0.0%	0.0%
E-Waste & Small Appliances	0.2%	-0.1%	0.6%
Bulky Items	0.6%	-0.1%	1.4%
Tanglers	0.1%	-0.1%	0.3%
Bagged Recyclables	1.5%	0.4%	2.5%
Bagged Waste	16.4%	9.8%	23.0%
Disposable Diapers	0.1%	0.0%	0.2%
Other Contaminants	1.5%	1.0%	2.0%
<b>Total Contaminants</b>	<b>37.5%</b>	<b>30.8%</b>	<b>44.1%</b>
<b>Total</b>	<b>100.0%</b>		

Note: Columns may not appear to correctly sum due to rounding.

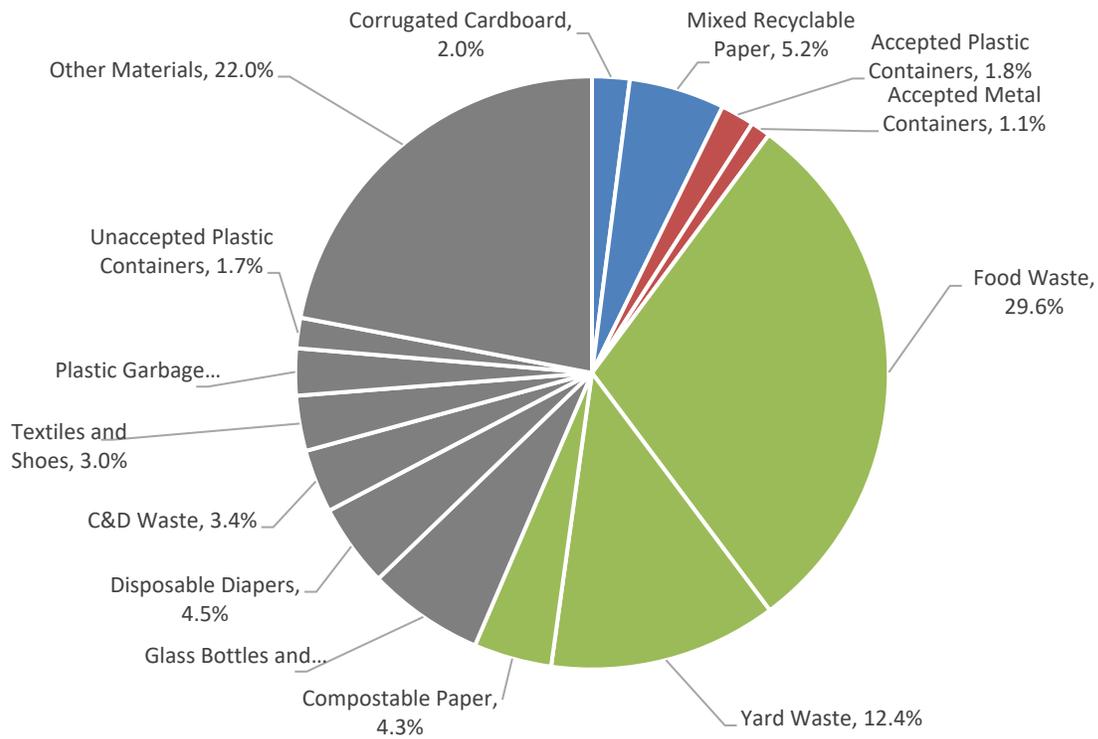
**Figure C-4: Trash Composition – Service Area 2 (percent by weight)**



**Figure C-5: Trash Composition – Service Area 3 (percent by weight)**



**Figure C-6: Trash Composition – Combined (percent by weight)**



**Table C-4: Trash Composition – Service Area 2 (percent by weight)**

Material Category	Mon	Tue	Thu	Weighted Average	90% Confidence Interval	
					Lower Bounds	Upper Bounds
Corrugated Cardboard	1.1%	1.5%	2.2%	1.6%	1.1%	2.2%
Mixed Recyclable Paper	5.7%	5.1%	6.8%	5.7%	3.8%	7.7%
<b>Program Recyclable Paper</b>	<b>6.8%</b>	<b>6.6%</b>	<b>9.0%</b>	<b>7.4%</b>	<b>5.3%</b>	<b>9.4%</b>
PET Bottles, Jugs, Jars – Clear (#1)	0.7%	1.0%	0.9%	0.9%	0.6%	1.2%
PET Bottles, Jugs, Jars - Op/Pig. (#1)	0.1%	0.0%	0.2%	0.1%	0.0%	0.2%
Natural HDPE Bottles (#2)	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Colored HDPE Bottles (#2)	0.3%	0.2%	0.1%	0.2%	0.1%	0.3%
Tin/Steel Cans	0.3%	1.0%	0.7%	0.8%	0.5%	1.0%
Aluminum Cans	0.3%	0.3%	1.0%	0.5%	0.2%	0.8%
<b>Program Recyclable Containers</b>	<b>1.9%</b>	<b>2.6%</b>	<b>2.9%</b>	<b>2.5%</b>	<b>1.9%</b>	<b>3.1%</b>
Food Waste	31.6%	22.3%	16.3%	22.5%	15.4%	29.6%
Yard Waste	12.2%	12.9%	14.1%	13.1%	7.2%	18.9%
Compostable Paper	7.2%	4.7%	1.8%	4.4%	3.2%	5.6%
<b>Potentially Compostable Materials</b>	<b>50.9%</b>	<b>39.8%</b>	<b>32.2%</b>	<b>40.0%</b>	<b>32.1%</b>	<b>47.8%</b>
Aseptic Boxes and Gable Top Cartons	0.1%	1.6%	0.1%	0.8%	0.0%	1.6%
Non-Recyclable Paper	1.2%	1.8%	0.6%	1.3%	0.9%	1.7%
PET Clamshells (#1)	0.4%	0.4%	0.2%	0.3%	0.1%	0.6%
PET Drink Cups (#1)	0.0%	0.1%	0.1%	0.1%	0.0%	0.1%
Other PET Non-bottle Rigids - Clear (#1)	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%
Other PET Non-bottle Rigids - Op/Pig. (#1)	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%
Non-Bottle HDPE Containers (#2)	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
PP Bottles, Jars, Jugs (#5)	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
PP Clamshells (#5)	0.3%	0.3%	0.0%	0.2%	0.1%	0.3%
PP Tubs (#5)	0.1%	0.3%	0.1%	0.2%	0.1%	0.3%
PP Drink Cups (#5)	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Other PP Non-bottle Rigids (#5)	1.2%	0.0%	0.1%	0.3%	-0.4%	1.0%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.0%	0.2%	0.3%	0.2%	0.0%	0.3%
Other Small Rigid Pack. Conts. (#3, #4, #6, #7)	0.1%	0.4%	0.0%	0.2%	0.1%	0.3%
Expanded Polystyrene Foam	0.9%	1.0%	0.4%	0.8%	0.5%	1.1%
Plastic Bags and Clean Film	0.5%	1.4%	1.5%	1.2%	0.8%	1.6%
Plastic Garbage Bags	3.0%	2.5%	1.7%	2.4%	1.8%	3.0%
Other Plastic Film/Flexibles	1.1%	1.3%	1.4%	1.3%	1.0%	1.6%
Bulky Rigid Plastics	0.2%	0.0%	1.3%	0.5%	-0.2%	1.1%
Unacceptable Rigid Plastics	0.6%	1.4%	1.5%	1.3%	0.8%	1.8%
Aluminum Foil and Trays	0.2%	0.9%	0.3%	0.6%	0.3%	0.8%
Unacceptable Metals	0.3%	0.4%	0.2%	0.3%	0.2%	0.5%
Glass Bottles and Jars	9.8%	6.6%	2.4%	6.0%	3.7%	8.3%
Unacceptable Glass, Ceramics, and Porcelain	0.0%	2.3%	0.0%	1.1%	-0.1%	2.4%
Textiles and Shoes	1.9%	2.2%	10.3%	4.5%	1.5%	7.6%
Construction and Demolition (C&D) Waste	6.3%	6.2%	6.7%	6.4%	1.1%	11.7%
Hazardous/Special Waste	0.0%	1.0%	0.0%	0.5%	-0.1%	1.0%
Batteries	0.0%	0.1%	0.0%	0.1%	0.0%	0.1%
Sharps	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
E-Waste & Small Appliances	0.0%	0.0%	0.4%	0.1%	0.0%	0.3%
Bulky Items	2.2%	3.3%	0.0%	2.1%	0.4%	3.7%
Disposable Diapers	2.5%	6.6%	1.2%	4.1%	1.9%	6.3%
All Other Garbage	6.9%	7.3%	24.3%	12.3%	7.2%	17.3%
Liquids	0.4%	1.0%	0.5%	0.7%	0.3%	1.2%
<b>All Other Materials</b>	<b>40.4%</b>	<b>50.9%</b>	<b>56.0%</b>	<b>50.2%</b>	<b>43.1%</b>	<b>57.2%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>		

Note: Columns may not appear to correctly sum due to rounding.

**Table C-5: Trash Composition – Service Area 3 (percent by weight)**

Material Category	Mon	Wed	Thu	Weighted Average	90% Confidence Interval	
					Lower Bounds	Upper Bounds
Corrugated Cardboard	1.9%	2.7%	2.4%	<b>2.3%</b>	0.8%	3.8%
Mixed Recyclable Paper	3.2%	5.8%	5.6%	<b>4.9%</b>	3.5%	6.2%
<b>Program Recyclable Paper</b>	<b>5.2%</b>	<b>8.5%</b>	<b>7.9%</b>	<b>7.2%</b>	<b>4.8%</b>	<b>9.6%</b>
PET Bottles, Jugs, Jars – Clear (#1)	1.4%	0.9%	2.6%	<b>1.5%</b>	0.9%	2.0%
PET Bottles, Jugs, Jars - Op/Pig. (#1)	0.0%	0.1%	0.0%	<b>0.0%</b>	0.0%	0.1%
Natural HDPE Bottles (#2)	0.4%	0.2%	0.2%	<b>0.3%</b>	0.1%	0.5%
Colored HDPE Bottles (#2)	0.6%	0.4%	0.4%	<b>0.4%</b>	0.3%	0.6%
Tin/Steel Cans	0.6%	0.5%	0.6%	<b>0.6%</b>	0.4%	0.7%
Aluminum Cans	0.6%	0.2%	0.4%	<b>0.4%</b>	0.2%	0.6%
<b>Program Recyclable Containers</b>	<b>3.6%</b>	<b>2.2%</b>	<b>4.2%</b>	<b>3.2%</b>	<b>2.3%</b>	<b>4.1%</b>
Food Waste	45.2%	27.6%	30.7%	<b>34.6%</b>	29.5%	39.7%
Yard Waste	4.7%	16.2%	15.6%	<b>12.0%</b>	5.1%	18.9%
Compostable Paper	4.5%	4.9%	2.5%	<b>4.2%</b>	3.2%	5.1%
<b>Potentially Compostable Materials</b>	<b>54.4%</b>	<b>48.6%</b>	<b>48.8%</b>	<b>50.7%</b>	<b>46.7%</b>	<b>54.8%</b>
Aseptic Boxes and Gable Top Cartons	1.9%	0.2%	0.2%	<b>0.8%</b>	0.3%	1.2%
Non-Recyclable Paper	1.1%	2.3%	2.5%	<b>1.9%</b>	1.5%	2.3%
PET Clamshells (#1)	0.1%	0.2%	0.2%	<b>0.2%</b>	0.1%	0.3%
PET Drink Cups (#1)	0.1%	0.1%	0.1%	<b>0.1%</b>	0.0%	0.1%
Other PET Non-bottle Rigids - Clear (#1)	0.2%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.2%
Other PET Non-bottle Rigids - Op/Pig. (#1)	0.2%	0.0%	0.1%	<b>0.1%</b>	0.0%	0.2%
Non-Bottle HDPE Containers (#2)	0.1%	0.1%	0.0%	<b>0.1%</b>	0.0%	0.1%
PP Bottles, Jars, Jugs (#5)	0.1%	0.2%	0.0%	<b>0.1%</b>	0.0%	0.2%
PP Clamshells (#5)	0.0%	0.2%	0.1%	<b>0.1%</b>	0.1%	0.2%
PP Tubs (#5)	0.4%	0.2%	0.2%	<b>0.3%</b>	0.2%	0.4%
PP Drink Cups (#5)	0.3%	0.1%	0.2%	<b>0.2%</b>	0.1%	0.3%
Other PP Non-bottle Rigids (#5)	0.1%	0.1%	0.1%	<b>0.1%</b>	0.0%	0.1%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.0%	0.1%	0.2%	<b>0.1%</b>	0.0%	0.2%
Other Small Rigid Pack. Conts. (#3, #4, #6, #7)	0.1%	0.2%	0.1%	<b>0.1%</b>	0.1%	0.2%
Expanded Polystyrene Foam	1.4%	1.2%	1.3%	<b>1.3%</b>	0.9%	1.7%
Plastic Bags and Clean Film	0.5%	1.2%	1.6%	<b>1.0%</b>	0.8%	1.3%
Plastic Garbage Bags	2.9%	2.6%	2.6%	<b>2.7%</b>	2.2%	3.2%
Other Plastic Film/Flexibles	1.3%	1.0%	1.3%	<b>1.2%</b>	1.0%	1.4%
Bulky Rigid Plastics	0.7%	0.1%	0.3%	<b>0.3%</b>	0.1%	0.5%
Unacceptable Rigid Plastics	0.9%	1.0%	1.1%	<b>1.0%</b>	0.6%	1.4%
Aluminum Foil and Trays	0.2%	0.4%	0.5%	<b>0.3%</b>	0.2%	0.4%
Unacceptable Metals	0.2%	0.1%	0.4%	<b>0.2%</b>	0.1%	0.3%
Glass Bottles and Jars	3.4%	10.9%	3.9%	<b>6.6%</b>	3.6%	9.5%
Unacceptable Glass, Ceramics, and Porcelain	1.5%	0.0%	0.5%	<b>0.7%</b>	0.2%	1.1%
Textiles and Shoes	2.0%	0.9%	3.7%	<b>1.9%</b>	0.8%	3.1%
Construction and Demolition (C&D) Waste	1.1%	2.2%	0.5%	<b>1.4%</b>	-0.1%	2.9%
Hazardous/Special Waste	5.3%	2.0%	0.0%	<b>2.7%</b>	0.8%	4.5%
Batteries	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.1%
Sharps	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%
E-Waste & Small Appliances	0.7%	0.1%	1.9%	<b>0.7%</b>	-0.2%	1.7%
Bulky Items	0.2%	1.2%	4.4%	<b>1.6%</b>	-0.1%	3.3%
Disposable Diapers	2.8%	5.9%	5.9%	<b>4.8%</b>	2.4%	7.2%
All Other Garbage	5.7%	5.0%	2.6%	<b>4.7%</b>	3.1%	6.3%
Liquids	1.3%	1.0%	2.6%	<b>1.5%</b>	0.7%	2.3%
<b>All Other Materials</b>	<b>36.8%</b>	<b>40.7%</b>	<b>39.1%</b>	<b>38.9%</b>	<b>35.0%</b>	<b>42.8%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>		

Note: Columns may not appear to correctly sum due to rounding.

**Table C-6: Trash Composition – Combined (percent by weight)**

Material Category	Weighted Average	90% Confidence Interval	
		Lower Bounds	Upper Bounds
Corrugated Cardboard	2.0%	1.2%	2.8%
Mixed Recyclable Paper	5.2%	4.1%	6.3%
<b>Program Recyclable Paper</b>	<b>7.3%</b>	<b>5.8%</b>	<b>8.8%</b>
PET Bottles, Jugs, Jars – Clear (#1)	1.2%	0.9%	1.5%
PET Bottles, Jugs, Jars - Op/Pig. (#1)	0.1%	0.0%	0.1%
Natural HDPE Bottles (#2)	0.2%	0.1%	0.3%
Colored HDPE Bottles (#2)	0.3%	0.2%	0.4%
Tin/Steel Cans	0.7%	0.5%	0.8%
Aluminum Cans	0.4%	0.3%	0.6%
<b>Program Recyclable Containers</b>	<b>2.9%</b>	<b>2.4%</b>	<b>3.5%</b>
Food Waste	29.6%	25.3%	33.9%
Yard Waste	12.4%	8.1%	16.7%
Compostable Paper	4.3%	3.5%	5.0%
<b>Potentially Compostable Materials</b>	<b>46.3%</b>	<b>42.0%</b>	<b>50.6%</b>
Aseptic Boxes and Gable Top Cartons	0.8%	0.4%	1.2%
Non-Recyclable Paper	1.7%	1.3%	2.0%
PET Clamshells (#1)	0.2%	0.1%	0.4%
PET Drink Cups (#1)	0.1%	0.0%	0.1%
Other PET Non-bottle Rigids - Clear (#1)	0.1%	0.0%	0.1%
Other PET Non-bottle Rigids - Op/Pig. (#1)	0.1%	0.0%	0.1%
Non-Bottle HDPE Containers (#2)	0.1%	0.0%	0.1%
PP Bottles, Jars, Jugs (#5)	0.1%	0.0%	0.1%
PP Clamshells (#5)	0.2%	0.1%	0.2%
PP Tubs (#5)	0.3%	0.2%	0.4%
PP Drink Cups (#5)	0.2%	0.1%	0.2%
Other PP Non-bottle Rigids (#5)	0.2%	-0.1%	0.5%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.1%	0.1%	0.2%
Other Small Rigid Pack. Conts. (#3, #4, #6, #7)	0.2%	0.1%	0.2%
Expanded Polystyrene Foam	1.1%	0.9%	1.4%
Plastic Bags and Clean Film	1.1%	0.9%	1.3%
Plastic Garbage Bags	2.6%	2.2%	2.9%
Other Plastic Film/Flexibles	1.2%	1.1%	1.4%
Bulky Rigid Plastics	0.4%	0.1%	0.7%
Unacceptable Rigid Plastics	1.1%	0.8%	1.4%
Aluminum Foil and Trays	0.4%	0.3%	0.6%
Unacceptable Metals	0.2%	0.1%	0.3%
Glass Bottles and Jars	6.3%	4.6%	8.1%
Unacceptable Glass, Ceramics, and Porcelain	0.9%	0.3%	1.5%
Textiles and Shoes	3.0%	1.5%	4.5%
Construction and Demolition (C&D) Waste	3.4%	0.8%	6.1%
Hazardous/Special Waste	1.8%	0.8%	2.7%
Batteries	0.0%	0.0%	0.1%
Sharps	0.0%	0.0%	0.0%
E-Waste & Small Appliances	0.5%	0.0%	1.0%
Bulky Items	1.8%	0.7%	2.9%
Disposable Diapers	4.5%	3.0%	6.1%
All Other Garbage	7.8%	5.1%	10.5%
Liquids	1.2%	0.7%	1.6%
<b>All Other Materials</b>	<b>43.5%</b>	<b>39.5%</b>	<b>47.6%</b>
<b>Total</b>	<b>100.0%</b>		

Note: Columns may not appear to correctly sum due to rounding.

**Table C-7: Bagged Recyclables Composition (percent by weight)**

Material Category	Weighted Average	90% Confidence Interval	
		Lower Bounds	Upper Bounds
Corrugated Cardboard	23.7%	18.1%	29.3%
Mixed Recyclable Paper	22.3%	18.1%	26.6%
<b>Accepted Recyclable Paper</b>	<b>46.0%</b>	<b>39.6%</b>	<b>52.4%</b>
PET Bottles, Jugs, Jars – Clear (#1)	9.2%	5.6%	12.9%
PET Bottles, Jugs, Jars - Op/Pig. (#1)	0.1%	0.0%	0.2%
Natural HDPE Bottles (#2)	1.3%	0.7%	1.9%
Colored HDPE Bottles (#2)	1.9%	1.2%	2.5%
Tin/Steel Cans	1.4%	0.8%	1.9%
Aluminum Cans	2.6%	1.9%	3.4%
<b>Accepted Recyclable Containers</b>	<b>16.5%</b>	<b>12.4%</b>	<b>20.7%</b>
Wet Paper and Cardboard	0.0%	0.0%	0.1%
Aseptic Boxes and Gable Top Cartons	0.8%	0.5%	1.1%
Compostable Paper	0.4%	0.2%	0.6%
Non-Recyclable Paper	0.2%	-0.1%	0.6%
PET Clamshells (#1)	1.0%	0.6%	1.3%
PET Drink Cups (#1)	0.1%	0.1%	0.2%
Other PET Non-bottle Rigid - Clear (#1)	0.3%	0.1%	0.5%
Other PET Non-bottle Rigid - Op/Pig. (#1)	0.1%	0.0%	0.1%
Non-Bottle HDPE Containers (#2)	0.3%	0.1%	0.4%
PP Bottles, Jars, Jugs (#5)	0.1%	0.1%	0.2%
PP Clamshells (#5)	0.1%	0.0%	0.1%
PP Tubs (#5)	0.2%	0.1%	0.4%
PP Drink Cups (#5)	0.1%	0.0%	0.1%
Other PP Non-bottle Rigid (#5)	0.1%	0.0%	0.2%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.1%	0.0%	0.2%
Other Small Rigid Pack. Conts. (#3, #4, #6, #7)	0.4%	0.2%	0.6%
Expanded Polystyrene Foam	0.4%	0.2%	0.6%
Plastic Bags and Clean Film	1.1%	0.7%	1.5%
Plastic Garbage Bags	0.1%	0.0%	0.1%
Other Plastic Film/Flexibles	0.7%	0.5%	0.9%
Bulky Rigid Plastics	1.6%	0.1%	3.0%
Unacceptable Rigid Plastics	0.5%	0.3%	0.6%
Aluminum Foil and Trays	0.0%	0.0%	0.0%
Unacceptable Metals	0.1%	0.0%	0.2%
Glass Bottles and Jars	6.0%	3.4%	8.5%
Unacceptable Glass, Ceramics, and Porcelain	0.4%	0.2%	0.7%
Food Waste	0.4%	0.1%	0.6%
Yard Waste	0.5%	-0.1%	1.0%
Textiles and Shoes	0.3%	0.0%	0.5%
C&D Waste	0.1%	0.0%	0.1%
Hazardous/Special Waste	1.0%	-0.5%	2.4%
Batteries	0.0%	0.0%	0.0%
Sharps	0.0%	0.0%	0.0%
E-Waste & Small Appliances	0.2%	-0.1%	0.6%
Bulky Items	0.6%	-0.1%	1.4%
Tanglers	0.1%	-0.1%	0.3%
Bagged Recyclables	1.5%	0.4%	2.5%
Bagged Waste	16.4%	9.8%	23.0%
Disposable Diapers	0.1%	0.0%	0.2%
Other Contaminants	1.5%	1.0%	2.0%
<b>Total Contaminants</b>	<b>37.5%</b>	<b>30.8%</b>	<b>44.1%</b>
<b>Total</b>	<b>100.0%</b>		

Note: Columns may not appear to correctly sum due to rounding.

## ATTACHMENT D: INDIVIDUAL SAMPLE RESULTS

**Table D-1: Recycling Samples – Service Area 2**

Sample #, Day, Route # of HH	#1: Mon, R202	#2: Mon, R203	#3: Mon, R201	#8: Tue, R222	#9: Tue, R222	#10: Tue, R221	#11: Tue, R221
<b>Material Categories</b>	5	5	5	4	3	4	3
Corrugated Cardboard	15.4%	17.5%	17.5%	6.3%	22.0%	34.1%	22.5%
Mixed Recyclable Paper	40.1%	30.1%	49.0%	4.9%	40.6%	40.6%	25.1%
Wet Paper and Cardboard	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aseptic Boxes and Gable Top Cartons	1.8%	2.6%	1.5%	0.0%	2.3%	0.3%	0.3%
Compostable Paper	0.5%	0.3%	0.6%	0.6%	0.7%	0.4%	0.2%
Non-Recyclable Paper	0.1%	0.0%	0.3%	0.0%	0.2%	0.1%	0.0%
PET Bottles, Jugs, Jars – Clear (#1)	11.8%	14.9%	5.1%	7.6%	11.1%	3.3%	7.3%
PET Bottles, Jugs, Jars - Op./Pig. (#1)	0.1%	0.0%	0.0%	0.0%	0.4%	0.2%	0.6%
PET Clamshells (#1)	1.1%	1.2%	2.8%	0.1%	2.6%	2.1%	2.5%
PET Drink Cups (#1)	0.0%	0.3%	0.0%	0.0%	0.0%	0.1%	0.0%
Other PET Non-bottle Rigid - Clear (#1)	0.0%	0.0%	0.8%	0.0%	0.0%	0.1%	0.0%
Other PET Non-bottle Rigid - Op./Pig. (#1)	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Natural HDPE Bottles (#2)	1.4%	1.4%	1.1%	0.6%	0.0%	2.1%	0.9%
Colored HDPE Bottles (#2)	2.3%	4.8%	2.5%	1.0%	2.5%	1.3%	0.8%
Non-Bottle HDPE Containers (#2)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%
PP Bottles, Jars, Jugs (#5)	0.3%	0.3%	0.4%	0.1%	0.2%	0.1%	0.7%
PP Clamshells (#5)	0.6%	0.5%	0.1%	0.0%	0.4%	0.4%	0.0%
PP Tubs (#5)	0.2%	0.7%	0.4%	0.2%	0.0%	0.1%	0.1%
PP Drink Cups (#5)	0.1%	0.5%	0.0%	0.0%	0.2%	0.2%	0.2%
Other PP Non-bottle Rigid (#5)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.1%	0.0%	0.4%	1.0%	0.0%	0.0%	0.0%
Other Small Rigid Pack. Conts. (#3, #4, #6, #7)	1.0%	1.0%	0.0%	0.0%	0.7%	0.0%	1.9%
Expanded Polystyrene Foam	0.0%	1.7%	1.0%	0.3%	0.2%	0.1%	0.0%
Plastic Bags and Clean Film	0.5%	0.7%	0.2%	1.9%	4.9%	0.0%	1.5%
Plastic Garbage Bags	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
Other Plastic Film/Flexibles	1.4%	0.7%	1.2%	0.4%	0.0%	0.7%	0.0%
Bulky Rigid Plastics	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.8%
Unacceptable Rigid Plastics	0.8%	0.2%	1.4%	0.1%	0.2%	0.6%	0.0%
Tin/Steel Cans	2.2%	1.7%	1.9%	1.0%	3.0%	0.4%	0.0%
Aluminum Cans	4.7%	7.4%	4.7%	2.0%	3.0%	2.2%	0.7%
Aluminum Foil and Trays	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
Unacceptable Metals	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Glass Bottles and Jars	1.9%	5.7%	0.0%	2.9%	0.0%	0.0%	0.0%
Unacceptable Glass, Ceramics, and Porcelain	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%
Food Waste	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%
Yard Waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%
Textiles and Shoes	0.0%	0.3%	4.4%	0.0%	0.0%	0.0%	0.0%
C&D Waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hazardous/Special Waste	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Batteries	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sharps	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
E-Waste & Small Appliances	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulky Items	7.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Tanglers	0.0%	0.0%	0.0%	0.0%	2.5%	0.4%	0.0%
Bagged Recyclables	0.0%	0.0%	0.0%	14.2%	0.0%	7.4%	0.0%
Bagged Waste	0.0%	3.9%	0.0%	54.9%	0.0%	0.0%	28.2%
Disposable Diapers	0.0%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%
Other Contaminants	1.1%	0.9%	0.7%	0.0%	2.3%	2.3%	0.7%
<b>Totals</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
Total Sample Weight (lbs)	45.20	29.30	58.70	45.05	28.05	52.55	49.85
Generation (lbs/HH/year)	470.1	304.7	610.5	585.7	486.2	683.2	864.1

Note: Columns may not appear to correctly sum due to rounding.

**Table D-1: Recycling Samples – Service Area 2 (continued)**

Sample #, Day, Route	#12: Tue, R223	#13: Tue, R224	#20: Thu, R262/263	#21: Thu, R262/263	#22: Thu, R261/262	#23: Thu, R261/262
<b>Material Categories</b>	<b>6</b>	<b>6</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>
<b># of HH</b>	<b>6</b>	<b>6</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>
Corrugated Cardboard	11.3%	25.8%	22.7%	14.1%	37.2%	49.5%
Mixed Recyclable Paper	14.3%	29.2%	13.3%	18.8%	32.9%	16.4%
Wet Paper and Cardboard	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%
Aseptic Boxes and Gable Top Cartons	0.0%	0.6%	0.0%	0.5%	1.5%	0.5%
Compostable Paper	0.3%	0.2%	0.1%	0.1%	0.0%	0.0%
Non-Recyclable Paper	0.3%	0.1%	0.0%	0.0%	4.8%	1.1%
PET Bottles, Jugs, Jars – Clear (#1)	6.5%	8.5%	3.6%	1.6%	5.4%	8.9%
PET Bottles, Jugs, Jars - Op./Pig. (#1)	0.0%	0.0%	0.0%	0.0%	0.9%	0.1%
PET Clamshells (#1)	0.6%	0.5%	1.9%	0.0%	3.2%	0.8%
PET Drink Cups (#1)	0.0%	0.2%	0.0%	0.0%	0.2%	0.3%
Other PET Non-bottle Rigid - Clear (#1)	0.0%	0.1%	0.0%	0.1%	0.9%	1.5%
Other PET Non-bottle Rigid - Op./Pig. (#1)	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
Natural HDPE Bottles (#2)	1.8%	0.5%	1.4%	0.3%	2.6%	1.8%
Colored HDPE Bottles (#2)	0.0%	1.4%	0.5%	1.3%	0.9%	1.2%
Non-Bottle HDPE Containers (#2)	0.3%	0.3%	0.5%	0.0%	0.0%	0.0%
PP Bottles, Jars, Jugs (#5)	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
PP Clamshells (#5)	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
PP Tubs (#5)	0.3%	0.8%	0.0%	0.3%	0.4%	1.2%
PP Drink Cups (#5)	0.2%	0.0%	0.2%	0.3%	0.2%	0.0%
Other PP Non-bottle Rigid (#5)	0.0%	0.0%	0.7%	0.0%	0.2%	0.1%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
Other Small Rigid Pack. Conts. (#3, #4, #6, #7)	0.7%	0.0%	0.0%	0.3%	0.0%	0.0%
Expanded Polystyrene Foam	0.2%	0.2%	0.1%	0.4%	0.0%	0.5%
Plastic Bags and Clean Film	0.8%	0.5%	0.6%	0.5%	0.4%	3.5%
Plastic Garbage Bags	0.0%	0.0%	0.6%	0.0%	0.0%	0.0%
Other Plastic Film/Flexibles	1.5%	2.0%	0.0%	0.1%	0.0%	0.8%
Bulky Rigid Plastics	0.0%	0.0%	20.8%	0.0%	2.4%	6.9%
Unacceptable Rigid Plastics	0.3%	0.6%	0.4%	0.8%	1.3%	0.7%
Tin/Steel Cans	1.7%	1.1%	5.5%	3.4%	1.5%	1.5%
Aluminum Cans	3.3%	3.7%	0.4%	6.5%	2.2%	1.1%
Aluminum Foil and Trays	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
Unacceptable Metals	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%
Glass Bottles and Jars	0.0%	18.7%	1.1%	11.3%	0.0%	0.0%
Unacceptable Glass, Ceramics, and Porcelain	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Food Waste	2.5%	0.0%	0.0%	3.0%	0.0%	0.0%
Yard Waste	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%
Textiles and Shoes	0.8%	0.0%	0.0%	0.0%	0.0%	0.3%
C&D Waste	1.0%	0.0%	0.0%	0.0%	0.0%	0.5%
Hazardous/Special Waste	0.0%	0.5%	22.7%	0.0%	0.0%	0.0%
Batteries	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sharps	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
E-Waste & Small Appliances	0.0%	0.0%	0.0%	4.6%	0.0%	0.0%
Bulky Items	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Tanglers	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bagged Recyclables	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%
Bagged Waste	41.3%	0.0%	0.0%	30.8%	0.0%	0.0%
Disposable Diapers	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Contaminants	6.1%	3.9%	2.5%	0.0%	0.9%	0.7%
<b>Totals</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
Total Sample Weight (lbs)	58.70	64.25	45.25	38.50	23.75	37.15
Generation (lbs/HH/year)	508.7	556.8	588.3	500.5	308.8	483.0

Note: Columns may not appear to correctly sum due to rounding.

**Table D-2: Recycling Samples – Area 3**

Sample #, Day, Route # of HH	#4: Mon, R731	#5: Mon, R731	#6: Mon, R730	#7: Mon, R730	#14: Wed, R730	#15: Wed, R730	#16: Wed, R730
<b>Material Categories</b>	<b>4</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>5</b>	<b>5</b>	<b>5</b>
Corrugated Cardboard	17.2%	30.0%	6.8%	56.1%	12.1%	7.2%	8.0%
Mixed Recyclable Paper	15.3%	6.1%	25.0%	12.1%	13.4%	12.9%	23.6%
Wet Paper and Cardboard	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aseptic Boxes and Gable Top Cartons	0.0%	0.3%	0.0%	0.6%	1.5%	2.2%	0.0%
Compostable Paper	0.0%	1.4%	0.2%	0.0%	0.0%	0.3%	0.2%
Non-Recyclable Paper	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PET Bottles, Jugs, Jars – Clear (#1)	24.4%	12.9%	2.9%	6.5%	49.0%	30.6%	4.2%
PET Bottles, Jugs, Jars - Op./Pig. (#1)	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%
PET Clamshells (#1)	0.5%	0.0%	0.0%	0.0%	3.0%	0.3%	0.0%
PET Drink Cups (#1)	0.0%	0.0%	0.0%	0.6%	0.0%	0.1%	0.0%
Other PET Non-bottle Rigid - Clear (#1)	1.4%	2.4%	0.4%	0.0%	0.7%	0.0%	0.0%
Other PET Non-bottle Rigid - Op./Pig. (#1)	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Natural HDPE Bottles (#2)	8.3%	1.2%	0.0%	2.0%	2.2%	1.2%	1.1%
Colored HDPE Bottles (#2)	0.5%	7.8%	1.9%	0.0%	5.0%	2.1%	4.5%
Non-Bottle HDPE Containers (#2)	2.1%	0.0%	0.4%	0.0%	0.0%	0.9%	0.0%
PP Bottles, Jars, Jugs (#5)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PP Clamshells (#5)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PP Tubs (#5)	0.0%	0.0%	0.0%	0.0%	2.0%	0.1%	0.2%
PP Drink Cups (#5)	0.2%	0.0%	0.0%	0.0%	0.4%	0.1%	0.1%
Other PP Non-bottle Rigid (#5)	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Small Rigid Pack. Conts. (#3, #4, #6, #7)	0.0%	0.7%	0.0%	1.7%	0.0%	0.5%	0.3%
Expanded Polystyrene Foam	0.0%	0.0%	0.7%	0.9%	0.0%	0.0%	0.1%
Plastic Bags and Clean Film	1.4%	1.5%	0.2%	0.9%	1.5%	0.7%	0.0%
Plastic Garbage Bags	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastic Film/Flexibles	0.5%	0.3%	0.5%	0.4%	0.0%	2.4%	0.8%
Bulky Rigid Plastics	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unacceptable Rigid Plastics	0.5%	0.0%	0.3%	0.4%	0.0%	1.2%	0.0%
Tin/Steel Cans	0.8%	0.0%	0.2%	0.0%	4.1%	2.7%	4.0%
Aluminum Cans	8.3%	0.7%	2.4%	2.0%	2.0%	0.4%	2.4%
Aluminum Foil and Trays	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
Unacceptable Metals	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Glass Bottles and Jars	13.7%	0.0%	19.6%	8.2%	0.0%	31.5%	1.4%
Unacceptable Glass, Ceramics, and Porcelain	0.0%	0.0%	3.8%	0.0%	0.0%	0.0%	0.0%
Food Waste	0.0%	0.9%	0.0%	1.0%	0.0%	0.0%	1.7%
Yard Waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Textiles and Shoes	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%	0.0%
C&D Waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hazardous/Special Waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%
Batteries	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sharps	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
E-Waste & Small Appliances	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulky Items	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.0%
Tanglers	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bagged Recyclables	0.0%	0.0%	0.0%	5.5%	0.0%	0.0%	0.0%
Bagged Waste	0.0%	31.2%	34.4%	0.0%	0.0%	0.0%	37.0%
Disposable Diapers	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Contaminants	1.4%	1.7%	0.3%	1.2%	3.2%	0.7%	1.4%
<b>Totals</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
Total Sample Weight (lbs)	30.50	28.85	93.20	36.45	28.35	38.90	58.60
Generation (lbs/HH/year)	396.5	375.1	1615.5	947.7	294.8	404.6	609.4

Note: Columns may not appear to correctly sum due to rounding.

**Table D-2: Recycling Samples – Area 3 (continued)**

Sample #, Day, Route # of HH	#17: Wed, R731	#18: Wed, R731	#19: Wed, R731	#24: Thu, R731	#25: Thu, R731	#26: Thu, R730	#27: Thu, R730
<b>Material Categories</b>	5	4	4	3	3	3	3
Corrugated Cardboard	28.0%	75.1%	25.7%	52.1%	9.4%	27.3%	14.4%
Mixed Recyclable Paper	32.0%	6.2%	28.5%	4.9%	0.3%	23.8%	34.7%
Wet Paper and Cardboard	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aseptic Boxes and Gable Top Cartons	2.2%	0.1%	1.8%	2.3%	0.0%	2.2%	0.8%
Compostable Paper	0.5%	0.3%	2.8%	0.0%	1.6%	0.0%	0.2%
Non-Recyclable Paper	0.0%	0.0%	1.6%	0.0%	0.7%	0.0%	0.0%
PET Bottles, Jugs, Jars – Clear (#1)	11.6%	9.2%	12.1%	34.1%	8.6%	2.6%	3.1%
PET Bottles, Jugs, Jars - Op./Pig. (#1)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PET Clamshells (#1)	0.0%	2.5%	0.0%	0.9%	0.9%	0.4%	0.5%
PET Drink Cups (#1)	0.0%	0.4%	0.3%	0.0%	0.3%	0.2%	0.0%
Other PET Non-bottle Rigid - Clear (#1)	0.0%	0.0%	1.6%	0.0%	0.1%	0.0%	0.0%
Other PET Non-bottle Rigid - Op./Pig. (#1)	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
Natural HDPE Bottles (#2)	0.0%	0.8%	1.3%	2.1%	0.6%	6.4%	0.0%
Colored HDPE Bottles (#2)	3.4%	0.0%	5.3%	0.0%	1.7%	4.0%	1.4%
Non-Bottle HDPE Containers (#2)	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%
PP Bottles, Jars, Jugs (#5)	0.3%	0.0%	1.1%	0.0%	0.4%	0.0%	0.0%
PP Clamshells (#5)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PP Tubs (#5)	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.1%
PP Drink Cups (#5)	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
Other PP Non-bottle Rigid (#5)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.0%	0.0%	0.5%	0.0%	0.6%	0.0%	0.0%
Other Small Rigid Pack. Conts. (#3, #4, #6, #7)	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Expanded Polystyrene Foam	1.7%	1.5%	0.0%	0.0%	0.1%	0.0%	0.1%
Plastic Bags and Clean Film	1.1%	1.0%	2.1%	2.3%	3.7%	0.0%	0.5%
Plastic Garbage Bags	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
Other Plastic Film/Flexibles	0.5%	0.0%	2.4%	0.5%	0.4%	0.0%	1.6%
Bulky Rigid Plastics	0.0%	0.0%	0.0%	0.0%	0.0%	7.7%	0.0%
Unacceptable Rigid Plastics	0.3%	0.4%	0.5%	0.2%	1.1%	0.7%	0.0%
Tin/Steel Cans	1.2%	0.0%	0.0%	0.0%	0.3%	4.4%	0.0%
Aluminum Cans	1.9%	0.3%	5.0%	0.2%	0.3%	6.4%	2.2%
Aluminum Foil and Trays	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Unacceptable Metals	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Glass Bottles and Jars	2.3%	0.0%	6.1%	0.0%	0.0%	8.4%	4.4%
Unacceptable Glass, Ceramics, and Porcelain	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Food Waste	0.0%	0.0%	0.0%	0.0%	0.6%	0.0%	0.0%
Yard Waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.7%
Textiles and Shoes	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
C&D Waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hazardous/Special Waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Batteries	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sharps	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
E-Waste & Small Appliances	3.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulky Items	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Tanglers	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bagged Recyclables	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bagged Waste	0.0%	0.0%	0.0%	0.0%	67.2%	1.1%	24.6%
Disposable Diapers	0.0%	0.0%	0.0%	0.0%	0.6%	0.0%	0.0%
Other Contaminants	3.3%	1.4%	1.0%	0.0%	0.3%	4.4%	2.2%
<b>Totals</b>	<b>100.0%</b>						
Total Sample Weight (lbs)	31.85	39.60	29.70	21.85	36.75	22.75	41.65
Generation (lbs/HH/year)	331.2	514.8	386.1	378.7	637.0	394.3	721.9

Note: Columns may not appear to correctly sum due to rounding.

**Table D-3: Trash Samples – Area 2**

Sample #, Day, Route	#1: Mon, R202	#2: Mon, R203	#3: Mon, R201	#8: Tue, R222	#9: Tue, R222	#10: Tue, R221	#11: Tue, R221
<b>Material Categories</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>3</b>
<b># of HH</b>							
Corrugated Cardboard	0.0%	1.3%	1.9%	1.2%	1.3%	0.2%	1.2%
Mixed Recyclable Paper	1.5%	9.3%	7.7%	9.7%	6.4%	1.6%	3.8%
Aseptic Boxes and Gable Top Cartons	0.0%	0.1%	0.1%	0.1%	0.3%	5.5%	0.1%
Compostable Paper	6.5%	7.0%	7.7%	4.8%	8.4%	2.6%	4.4%
Non-Recyclable Paper	1.0%	0.1%	1.7%	1.0%	3.2%	2.2%	0.9%
PET Bottles, Jugs, Jars – Clear (#1)	0.3%	2.2%	0.4%	1.8%	0.4%	0.8%	0.5%
PET Bottles, Jugs, Jars - Op./Pig. (#1)	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%
PET Clamshells (#1)	0.1%	1.9%	0.1%	0.1%	0.3%	0.8%	0.0%
PET Drink Cups (#1)	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%
Other PET Non-bottle Rigid - Clear (#1)	0.1%	0.0%	0.0%	0.2%	0.1%	0.1%	0.2%
Other PET Non-bottle Rigid - Op./Pig. (#1)	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.2%
Natural HDPE Bottles (#2)	0.0%	0.2%	0.1%	0.1%	0.1%	0.1%	0.0%
Colored HDPE Bottles (#2)	0.4%	0.2%	0.1%	0.4%	0.1%	0.3%	0.2%
Non-Bottle HDPE Containers (#2)	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
PP Bottles, Jars, Jugs (#5)	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
PP Clamshells (#5)	0.4%	0.2%	0.2%	0.7%	0.4%	0.0%	0.4%
PP Tubs (#5)	0.3%	0.1%	0.0%	0.2%	0.2%	0.7%	0.3%
PP Drink Cups (#5)	0.1%	0.1%	0.2%	0.3%	0.0%	0.1%	0.1%
Other PP Non-bottle Rigid (#5)	0.2%	5.0%	0.4%	0.0%	0.0%	0.1%	0.1%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.0%	0.0%	0.1%	0.1%	0.4%	0.1%	0.0%
Other Small Rigid Pack. Conts. (#3, #4, #6, #7)	0.0%	0.1%	0.1%	0.0%	0.5%	0.8%	0.2%
Expanded Polystyrene Foam	0.4%	2.4%	0.8%	0.7%	1.2%	0.9%	1.7%
Plastic Bags and Clean Film	0.3%	0.2%	0.8%	1.2%	0.7%	1.6%	1.0%
Plastic Garbage Bags	2.7%	4.1%	2.8%	3.2%	2.0%	2.5%	2.7%
Other Plastic Film/Flexibles	0.7%	1.9%	1.1%	0.8%	1.0%	1.9%	1.0%
Bulky Rigid Plastics	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unacceptable Rigid Plastics	0.2%	0.5%	0.9%	0.2%	3.1%	1.8%	0.3%
Tin/Steel Cans	0.1%	0.5%	0.5%	0.9%	1.0%	1.4%	0.0%
Aluminum Cans	0.1%	1.0%	0.2%	0.4%	0.3%	0.1%	0.2%
Aluminum Foil and Trays	0.2%	0.3%	0.2%	1.7%	0.9%	1.4%	0.3%
Unacceptable Metals	0.7%	0.0%	0.0%	0.2%	0.6%	0.2%	1.0%
Glass Bottles and Jars	5.1%	14.6%	11.7%	7.1%	0.6%	10.1%	11.4%
Unacceptable Glass, Ceramics, and Porcelain	0.0%	0.0%	0.0%	1.7%	8.9%	0.1%	0.0%
Food Waste	16.5%	29.4%	45.0%	17.4%	17.2%	15.8%	35.3%
Yard Waste	27.5%	1.4%	3.9%	0.0%	6.0%	24.8%	4.6%
Textiles and Shoes	2.0%	3.2%	1.3%	1.6%	3.8%	2.1%	2.6%
Construction and Demolition (C&D) Waste	17.0%	0.0%	0.0%	31.0%	0.0%	2.5%	0.7%
Hazardous/Special Waste	0.0%	0.0%	0.0%	0.0%	4.0%	0.4%	0.0%
Batteries	0.1%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%
Sharps	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
E-Waste & Small Appliances	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulky Items	0.0%	7.0%	2.0%	0.0%	9.6%	5.4%	0.0%
Disposable Diapers	3.4%	3.8%	1.2%	4.4%	12.5%	4.5%	13.6%
All Other Garbage	11.5%	1.5%	5.4%	3.9%	4.5%	4.1%	10.7%
Liquids	0.0%	0.0%	0.9%	2.9%	0.0%	2.0%	0.5%
<b>Totals</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
Total Sample Weight (lbs)	212.30	105.70	255.05	187.70	176.35	207.72	105.30
Generation (lbs/HH/year)	42.46	21.14	51.01	46.93	58.78	51.93	35.10

Note: Columns may not appear to correctly sum due to rounding.

**Table D-3: Trash Samples – Area 2 (continued)**

Sample #, Day, Route	#12: Tue, R223	#13: Tue, R224	#20: Thu, R262/263	#21: Thu, R262/263	#22: Thu, R261/262	#23: Thu, R261/262	#12: Tue, R223
<b>Material Categories # of HH</b>	6	6	4	4	4	4	6
Corrugated Cardboard	1.9%	4.4%	2.2%	1.6%	2.5%	2.9%	1.9%
Mixed Recyclable Paper	5.3%	2.8%	15.1%	2.7%	4.7%	3.3%	5.3%
Aseptic Boxes and Gable Top Cartons	0.0%	3.2%	0.0%	0.4%	0.0%	0.0%	0.0%
Compostable Paper	3.9%	2.5%	1.6%	0.8%	2.7%	2.5%	3.9%
Non-Recyclable Paper	0.4%	1.9%	0.4%	1.2%	0.2%	0.8%	0.4%
PET Bottles, Jugs, Jars – Clear (#1)	1.0%	1.7%	0.7%	1.4%	0.4%	0.9%	1.0%
PET Bottles, Jugs, Jars - Op./Pig. (#1)	0.0%	0.1%	0.0%	0.1%	0.2%	0.5%	0.0%
PET Clamshells (#1)	0.2%	0.8%	0.0%	0.1%	0.1%	0.5%	0.2%
PET Drink Cups (#1)	0.1%	0.1%	0.0%	0.1%	0.1%	0.1%	0.1%
Other PET Non-bottle Rigid - Clear (#1)	0.0%	0.2%	0.0%	0.0%	0.2%	0.0%	0.0%
Other PET Non-bottle Rigid - Op./Pig. (#1)	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
Natural HDPE Bottles (#2)	0.1%	0.3%	0.0%	0.2%	0.1%	0.2%	0.1%
Colored HDPE Bottles (#2)	0.0%	0.4%	0.0%	0.0%	0.2%	0.0%	0.0%
Non-Bottle HDPE Containers (#2)	0.0%	0.2%	0.0%	0.1%	0.1%	0.0%	0.0%
PP Bottles, Jars, Jugs (#5)	0.0%	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%
PP Clamshells (#5)	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
PP Tubs (#5)	0.2%	0.3%	0.1%	0.1%	0.1%	0.3%	0.2%
PP Drink Cups (#5)	0.1%	0.0%	0.0%	0.2%	0.1%	0.1%	0.1%
Other PP Non-bottle Rigid (#5)	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.0%	0.5%	0.9%	0.0%	0.0%	0.3%	0.0%
Other Small Rigid Pack. Conts. (#3, #4, #6, #7)	0.3%	0.3%	0.0%	0.1%	0.1%	0.0%	0.3%
Expanded Polystyrene Foam	1.2%	0.6%	0.3%	0.6%	0.0%	1.2%	1.2%
Plastic Bags and Clean Film	1.3%	3.1%	1.5%	1.3%	0.9%	2.9%	1.3%
Plastic Garbage Bags	1.4%	3.2%	0.6%	1.5%	1.3%	4.9%	1.4%
Other Plastic Film/Flexibles	0.6%	2.5%	1.6%	1.1%	1.3%	2.0%	0.6%
Bulky Rigid Plastics	0.2%	0.0%	4.8%	0.0%	0.1%	0.0%	0.2%
Unacceptable Rigid Plastics	0.3%	2.0%	1.0%	0.9%	2.2%	2.5%	0.3%
Tin/Steel Cans	1.0%	1.5%	0.2%	0.9%	0.4%	1.7%	1.0%
Aluminum Cans	0.4%	0.4%	0.4%	1.7%	1.4%	0.1%	0.4%
Aluminum Foil and Trays	0.2%	0.1%	0.0%	0.4%	0.3%	0.4%	0.2%
Unacceptable Metals	0.5%	0.3%	0.0%	0.7%	0.0%	0.0%	0.5%
Glass Bottles and Jars	9.6%	2.5%	1.3%	3.6%	2.1%	2.6%	9.6%
Unacceptable Glass, Ceramics, and Porcelain	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Food Waste	22.5%	34.9%	9.1%	11.6%	8.4%	54.0%	22.5%
Yard Waste	35.6%	10.1%	1.2%	25.8%	15.7%	11.2%	35.6%
Textiles and Shoes	0.0%	1.9%	21.7%	12.7%	1.9%	0.3%	0.0%
Construction and Demolition (C&D) Waste	0.0%	0.0%	0.0%	0.0%	23.9%	0.3%	0.0%
Hazardous/Special Waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Batteries	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sharps	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
E-Waste & Small Appliances	0.0%	0.0%	0.0%	0.0%	1.2%	0.3%	0.0%
Bulky Items	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Disposable Diapers	0.0%	1.8%	0.4%	0.5%	3.3%	0.2%	0.0%
All Other Garbage	11.2%	14.8%	33.7%	27.7%	22.6%	3.0%	11.2%
Liquids	0.0%	0.3%	1.2%	0.0%	0.6%	0.0%	0.0%
<b>Totals</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
Total Sample Weight (lbs)	201.85	188.05	173.50	188.70	176.35	93.50	201.85
Generation (lbs/HH/year)	33.64	31.34	43.38	47.18	44.09	23.38	33.64

Note: Columns may not appear to correctly sum due to rounding.

**Table D-3: Trash Samples – Area 3**

Sample #, Day, Route	#4: Mon, R731	#5: Mon, R731	#6: Mon, R730	#7: Mon, R730	#14: Wed, R730	#15: Wed, R730	#16: Wed, R730	
Material Categories	# of HH	4	4	3	2	5	5	5
Corrugated Cardboard	3.2%	4.3%	2.0%	0.7%	3.0%	0.7%	1.7%	
Mixed Recyclable Paper	5.4%	8.8%	4.9%	0.0%	3.6%	3.7%	9.3%	
Aseptic Boxes and Gable Top Cartons	0.3%	0.0%	0.0%	3.8%	0.2%	0.1%	0.0%	
Compostable Paper	5.0%	4.1%	3.9%	4.7%	4.1%	3.9%	3.4%	
Non-Recyclable Paper	1.0%	1.6%	1.3%	0.8%	1.2%	1.9%	3.6%	
PET Bottles, Jugs, Jars – Clear (#1)	1.9%	2.8%	1.8%	0.5%	0.7%	0.3%	2.0%	
PET Bottles, Jugs, Jars - Op./Pig. (#1)	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	
PET Clamshells (#1)	0.2%	0.5%	0.0%	0.1%	0.0%	0.1%	0.7%	
PET Drink Cups (#1)	0.5%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	
Other PET Non-bottle Rigids - Clear (#1)	0.7%	0.0%	0.2%	0.0%	0.1%	0.0%	0.0%	
Other PET Non-bottle Rigids - Op./Pig. (#1)	0.5%	0.0%	0.6%	0.0%	0.1%	0.0%	0.0%	
Natural HDPE Bottles (#2)	1.4%	0.7%	0.4%	0.1%	0.0%	0.0%	0.3%	
Colored HDPE Bottles (#2)	1.0%	0.7%	0.9%	0.3%	0.1%	0.2%	0.3%	
Non-Bottle HDPE Containers (#2)	0.3%	0.1%	0.2%	0.1%	0.0%	0.0%	0.0%	
PP Bottles, Jars, Jugs (#5)	0.4%	0.1%	0.0%	0.0%	0.2%	0.0%	0.1%	
PP Clamshells (#5)	0.2%	0.2%	0.0%	0.0%	0.4%	0.1%	0.0%	
PP Tubs (#5)	0.4%	1.1%	0.1%	0.4%	0.1%	0.0%	0.0%	
PP Drink Cups (#5)	0.5%	0.4%	0.3%	0.1%	0.1%	0.1%	0.2%	
Other PP Non-bottle Rigids (#5)	0.0%	0.0%	0.2%	0.0%	0.1%	0.0%	0.0%	
Other Plastic Drink Cups (#3, #4, #6, #7)	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	
Other Small Rigid Pack. Conts. (#3, #4, #6, #7)	0.2%	0.0%	0.0%	0.1%	0.3%	0.1%	0.3%	
Expanded Polystyrene Foam	0.4%	3.4%	1.1%	1.2%	2.1%	0.7%	1.8%	
Plastic Bags and Clean Film	0.3%	0.8%	0.3%	0.5%	2.1%	0.7%	1.6%	
Plastic Garbage Bags	2.5%	2.5%	4.5%	2.4%	2.1%	0.7%	1.9%	
Other Plastic Film/Flexibles	0.2%	1.7%	0.9%	1.8%	1.1%	0.8%	1.1%	
Bulky Rigid Plastics	0.4%	0.1%	0.0%	1.3%	0.0%	0.0%	0.0%	
Unacceptable Rigid Plastics	1.1%	0.8%	0.9%	0.9%	0.4%	0.3%	0.2%	
Tin/Steel Cans	0.9%	1.2%	0.8%	0.2%	0.8%	0.1%	0.6%	
Aluminum Cans	1.7%	0.2%	0.7%	0.3%	0.3%	0.0%	0.1%	
Aluminum Foil and Trays	0.2%	0.3%	0.4%	0.1%	0.2%	0.2%	0.5%	
Unacceptable Metals	0.3%	0.0%	0.0%	0.2%	0.1%	0.0%	0.1%	
Glass Bottles and Jars	4.8%	1.2%	5.2%	2.7%	4.5%	11.4%	13.3%	
Unacceptable Glass, Ceramics, and Porcelain	0.0%	0.0%	0.2%	3.2%	0.1%	0.0%	0.0%	
Food Waste	43.7%	30.2%	42.9%	51.6%	24.8%	18.9%	27.0%	
Yard Waste	3.0%	22.6%	3.4%	0.2%	24.8%	26.0%	27.4%	
Textiles and Shoes	5.0%	0.3%	2.0%	1.6%	0.3%	1.4%	0.3%	
Construction and Demolition (C&D) Waste	3.0%	0.5%	0.0%	1.3%	0.0%	11.6%	0.0%	
Hazardous/Special Waste	0.1%	0.0%	0.0%	11.2%	0.0%	0.0%	0.0%	
Batteries	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.3%	
Sharps	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
E-Waste & Small Appliances	0.0%	2.5%	1.5%	0.0%	0.0%	0.0%	0.0%	
Bulky Items	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Disposable Diapers	0.8%	0.6%	10.1%	0.5%	8.2%	15.0%	0.0%	
All Other Garbage	7.4%	2.6%	8.0%	5.0%	11.5%	1.0%	1.8%	
Liquids	0.0%	3.1%	0.0%	1.9%	2.7%	0.3%	0.0%	
<b>Totals</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	
Total Sample Weight (lbs)	162.00	157.85	184.70	252.20	274.70	290.20	107.55	
Generation (lbs/HH/year)	40.50	39.46	61.57	126.10	54.94	58.04	21.51	

Note: Columns may not appear to correctly sum due to rounding.

**Table D-3: Trash Samples – Area 3 (continued)**

Sample #, Day, Route	#17: Wed, R731	#18: Wed, R731	#19: Wed, R731	#24: Thu, R731	#25: Thu, R731	#26: Thu, R730	#27: Thu, R730
<b>Material Categories</b>	<b>5</b>	<b>4</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b># of HH</b>							
Corrugated Cardboard	11.8%	1.0%	0.8%	2.2%	6.9%	0.2%	0.5%
Mixed Recyclable Paper	6.9%	4.4%	8.7%	5.5%	9.6%	3.5%	3.9%
Aseptic Boxes and Gable Top Cartons	0.4%	0.1%	0.2%	0.0%	0.4%	0.2%	0.2%
Compostable Paper	8.3%	4.5%	5.0%	0.7%	6.1%	2.3%	0.7%
Non-Recyclable Paper	2.6%	2.9%	2.3%	1.4%	2.8%	2.4%	3.6%
PET Bottles, Jugs, Jars – Clear (#1)	0.7%	1.3%	1.1%	3.7%	3.2%	0.9%	3.1%
PET Bottles, Jugs, Jars - Op./Pig. (#1)	0.0%	0.2%	0.1%	0.0%	0.1%	0.0%	0.0%
PET Clamshells (#1)	0.3%	0.2%	0.2%	0.0%	0.4%	0.0%	0.4%
PET Drink Cups (#1)	0.3%	0.1%	0.0%	0.0%	0.0%	0.1%	0.1%
Other PET Non-bottle Rigids - Clear (#1)	0.1%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%
Other PET Non-bottle Rigids - Op./Pig. (#1)	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%
Natural HDPE Bottles (#2)	0.2%	0.2%	0.4%	0.5%	0.3%	0.1%	0.1%
Colored HDPE Bottles (#2)	0.3%	0.9%	0.3%	0.7%	0.3%	0.0%	0.7%
Non-Bottle HDPE Containers (#2)	0.3%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%
PP Bottles, Jars, Jugs (#5)	0.1%	0.5%	0.0%	0.0%	0.0%	0.1%	0.0%
PP Clamshells (#5)	0.4%	0.2%	0.0%	0.4%	0.0%	0.0%	0.1%
PP Tubs (#5)	0.2%	0.1%	0.7%	0.0%	0.5%	0.1%	0.2%
PP Drink Cups (#5)	0.0%	0.4%	0.0%	0.2%	0.3%	0.1%	0.0%
Other PP Non-bottle Rigids (#5)	0.0%	0.2%	0.1%	0.3%	0.0%	0.1%	0.0%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.3%	0.0%	0.1%	0.5%	0.2%	0.0%	0.0%
Other Small Rigid Pack. Conts. (#3, #4, #6, #7)	0.6%	0.2%	0.1%	0.2%	0.0%	0.2%	0.0%
Expanded Polystyrene Foam	1.3%	2.1%	0.2%	1.2%	2.1%	0.9%	0.8%
Plastic Bags and Clean Film	0.8%	1.1%	1.2%	2.1%	1.6%	1.1%	1.7%
Plastic Garbage Bags	2.4%	4.7%	3.0%	2.6%	2.9%	1.5%	3.9%
Other Plastic Film/Flexibles	0.7%	1.0%	1.0%	1.5%	1.5%	0.8%	1.6%
Bulky Rigid Plastics	0.0%	0.2%	0.1%	0.0%	0.0%	0.9%	0.0%
Unacceptable Rigid Plastics	3.3%	0.7%	1.4%	1.1%	0.9%	1.8%	0.2%
Tin/Steel Cans	0.9%	0.3%	0.7%	0.3%	0.8%	0.5%	0.9%
Aluminum Cans	0.5%	0.1%	0.2%	0.4%	0.2%	0.6%	0.3%
Aluminum Foil and Trays	0.7%	0.4%	0.5%	0.2%	0.6%	0.4%	0.7%
Unacceptable Metals	0.3%	0.0%	0.0%	0.0%	0.5%	0.9%	0.0%
Glass Bottles and Jars	8.0%	2.0%	22.8%	1.9%	1.1%	3.2%	11.0%
Unacceptable Glass, Ceramics, and Porcelain	0.0%	0.0%	0.0%	0.0%	0.0%	1.7%	0.0%
Food Waste	20.1%	30.0%	38.5%	34.7%	39.1%	14.9%	41.0%
Yard Waste	5.3%	22.6%	0.0%	0.8%	4.0%	45.6%	0.0%
Textiles and Shoes	2.9%	0.1%	0.5%	7.6%	0.1%	5.4%	0.5%
Construction and Demolition (C&D) Waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.3%
Hazardous/Special Waste	0.0%	10.5%	0.0%	0.0%	0.0%	0.0%	0.0%
Batteries	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%
Sharps	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
E-Waste & Small Appliances	0.0%	0.0%	0.2%	0.0%	0.7%	1.1%	7.2%
Bulky Items	0.0%	2.4%	2.9%	12.2%	0.0%	0.0%	7.4%
Disposable Diapers	9.4%	1.6%	0.6%	11.0%	8.6%	3.4%	0.1%
All Other Garbage	9.5%	2.2%	4.3%	1.5%	0.8%	4.8%	2.8%
Liquids	0.3%	0.6%	1.2%	4.5%	3.0%	0.0%	3.8%
<b>Totals</b>	<b>100.0%</b>						
Total Sample Weight (lbs)	198.25	233.15	304.45	133.80	134.00	173.90	108.35
Generation (lbs/HH/year)	39.65	58.29	76.11	44.60	44.67	57.97	36.12

Note: Columns may not appear to correctly sum due to rounding.

## ATTACHMENT E: DETAILED RECYCLABLES GENERATION AND CAPTURE RESULTS

### Table E-1: Program Recyclables Generation and Capture Rate – Service Area 2

Material Category	Generation (lbs/HH/year)			Capture Rate	Lower Bounds	Upper Bounds
	Recycling	Trash	Total			
Corrugated Cardboard	115.6	35.3	<b>150.9</b>	76.6%	69.7%	83.5%
Mixed Recyclable Paper	143.6	116.9	<b>260.6</b>	55.1%	43.6%	66.7%
<b>Program Recyclable Paper</b>	<b>259.2</b>	<b>152.2</b>	<b>411.4</b>	<b>63.0%</b>	<b>52.7%</b>	<b>73.2%</b>
PET Bottles, Jugs, Jars – Clear (#1)	37.1	19.1	<b>56.2</b>	66.0%	56.7%	75.3%
PET Bottles, Jugs, Jars - Opaque/Pigmented (#1)	0.7	1.9	<b>2.6</b>	27.9%	6.0%	49.9%
Natural HDPE Bottles (#2)	6.2	2.1	<b>8.3</b>	74.7%	59.5%	89.9%
Colored HDPE Bottles (#2)	7.7	4.0	<b>11.7</b>	65.8%	50.7%	80.9%
Tin/Steel Cans	9.6	16.2	<b>25.8</b>	37.1%	25.3%	48.9%
Aluminum Cans	16.6	10.4	<b>27.0</b>	61.6%	49.8%	73.4%
<b>Program Recyclable Containers</b>	<b>77.9</b>	<b>53.7</b>	<b>131.6</b>	<b>59.2%</b>	<b>51.8%</b>	<b>66.6%</b>
<b>All Program Recyclables</b>	<b>337.1</b>	<b>205.9</b>	<b>543.0</b>	<b>62.1%</b>	<b>53.5%</b>	<b>70.7%</b>

### Table E-2: Program Recyclables Generation and Capture Rate – Service Area 3

Material Category	Generation (lbs/HH/year)			Capture Rate	Lower Bounds	Upper Bounds
	Recycling	Trash	Total			
Corrugated Cardboard	122.6	73.4	<b>196.0</b>	62.6%	50.7%	74.4%
Mixed Recyclable Paper	97.0	148.7	<b>245.7</b>	39.5%	26.2%	52.8%
<b>Program Recyclable Paper</b>	<b>219.6</b>	<b>222.1</b>	<b>441.7</b>	<b>49.7%</b>	<b>38.9%</b>	<b>60.5%</b>
PET Bottles, Jugs, Jars – Clear (#1)	66.6	40.3	<b>107.0</b>	62.3%	53.2%	71.3%
PET Bottles, Jugs, Jars - Opaque/Pigmented (#1)	0.2	1.1	<b>1.3</b>	17.9%	-1.4%	37.2%
Natural HDPE Bottles (#2)	8.0	8.5	<b>16.4</b>	48.6%	31.2%	66.0%
Colored HDPE Bottles (#2)	13.5	12.3	<b>25.8</b>	52.4%	36.6%	68.2%
Tin/Steel Cans	6.4	16.8	<b>23.2</b>	27.5%	13.9%	41.1%
Aluminum Cans	12.4	10.2	<b>22.6</b>	54.8%	40.7%	69.0%
<b>Program Recyclable Containers</b>	<b>107.1</b>	<b>89.2</b>	<b>196.3</b>	<b>54.6%</b>	<b>46.7%</b>	<b>62.4%</b>
<b>All Program Recyclables</b>	<b>326.7</b>	<b>311.3</b>	<b>638.0</b>	<b>51.2%</b>	<b>43.4%</b>	<b>59.0%</b>

### Table E-3: Program Recyclables Generation and Capture Rate – Combined

Material Category	Generation (lbs/HH/year)			Capture Rate	Lower Bounds	Upper Bounds
	Recycling	Trash	Total			
Corrugated Cardboard	119.0	53.1	<b>172.0</b>	69.1%	62.3%	76.0%
Mixed Recyclable Paper	121.2	131.8	<b>252.9</b>	47.9%	39.1%	56.7%
<b>Program Recyclable Paper</b>	<b>240.1</b>	<b>184.9</b>	<b>425.0</b>	<b>56.5%</b>	<b>49.2%</b>	<b>63.8%</b>
PET Bottles, Jugs, Jars – Clear (#1)	51.3	29.0	<b>80.4</b>	63.9%	57.6%	70.1%
PET Bottles, Jugs, Jars - Opaque/Pigmented (#1)	0.5	1.5	<b>2.0</b>	24.6%	10.5%	38.7%
Natural HDPE Bottles (#2)	7.1	5.1	<b>12.1</b>	58.2%	46.7%	69.7%
Colored HDPE Bottles (#2)	10.5	7.9	<b>18.4</b>	57.1%	46.5%	67.8%
Tin/Steel Cans	8.0	16.5	<b>24.5</b>	32.7%	23.6%	41.8%
Aluminum Cans	14.6	10.3	<b>24.9</b>	58.6%	49.7%	67.5%
<b>Program Recyclable Containers</b>	<b>92.0</b>	<b>70.3</b>	<b>162.3</b>	<b>56.7%</b>	<b>51.5%</b>	<b>61.9%</b>
<b>All Program Recyclables</b>	<b>332.1</b>	<b>255.2</b>	<b>587.3</b>	<b>56.6%</b>	<b>51.0%</b>	<b>62.1%</b>

Note: Columns may not appear to correctly sum due to rounding.