# 2014 Generator-Based Characterization of Commercial Sector Disposal and Diversion in California



California Department of Resources Recycling and Recovery

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#### STATE OF CALIFORNIA

#### Edmund G. Brown Jr. Governor

Matt Rodriguez Secretary, California Environmental Protection Agency

### DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY

**Scott Smithline** Director

Department of Resources Recycling and Recovery **Public Affairs Office** 1001 I Street (MS 22-B) P.O. Box 4025 Sacramento, CA 95812-4025 www.calrecycle.ca.gov/Publications/ 1-800-RECYCLE (California only) or (916) 341-6300



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- San Francisco Solid Waste Transfer and Recycling Center. San Francisco, CA
- Zanker Road Landfill, San Jose, CA
- Hawthorne St. Transfer Station, Eureka, CA
- Lovelace Transfer Station, Manteca, CA
- Landers Sanitary Landfill, Landers, CA
- Golden Bear Waste Recycling Center, Richmond, CA
- Sun St. Transfer Station, Salinas, CA
- Paloma Transfer Station, Paloma, CA
- Chiquita Canyon Sanitary Landfill, Castaic, CA
- KWRA Material Recovery Facility, Hanford, CA
- Potrero Hills Landfill, Suisun City, CA
- Monterey Peninsula Landfill, Monterey, CA
- Pinecrest Transfer Station, Pinecrest, CA
- West Miramar Sanitary Landfill, San Diego, CA
- City of Clovis Landfill, Fresno, CA
- Central Transfer Station, Petaluma, CA
- MarBorg C&D Recycling & Transfer Facility, Santa Barbara, CA
- Calabasas Sanitary Landfill Agoura Hills, CA
- City of Redding Transfer Station/MRF, Redding, CA

The cooperation of the businesses and venues that participated in this study is very much appreciated. They unselfishly volunteered their time and resources to assist us with this project.

## **Executive Summary**

### Summary of Objectives

In 2011, California set an ambitious goal of 75 percent recycling, composting, or source reduction of solid waste by 2020. In 2006, California set ambitious goals to reduce greenhouse gas emissions. Directing waste materials that are generated in the state away from disposal and back into the economic stream, to their best and highest use, helps reach these goals. Businesses in California have diverted waste in many ways for many years and will continue to play a critical role in reaching these goals. The objective of this waste characterization project was to provide a better understanding of how discarded materials are generated, disposed, and diverted by the commercial sector, both for individual industry groups and for the commercial sector as a whole. This can help businesses, local governments, and CalRecycle better direct efforts to increase diversion and reduce disposal.

The California Department of Resources Recycling and Recovery (CalRecycle) commissioned this project to conduct an in-depth study of waste generated by California businesses. The objectives of the project were:

- To quantify what materials are generated and in what amounts. This includes all discards—both those disposed and those diverted from disposal.
- To characterize the sources of materials and to determine what materials are generated by different types of businesses, since they generate them in different ways (for example, compare restaurants to banks).
- To identify the paths or streams the discarded materials take, whether they are placed in disposal bins, recycling bins, or organics bins, or diverted though other means (such as a manufacturer selling scrap metal).

This study was accomplished by characterizing and quantifying disposal and diversion from individual commercial and multi-family generators statewide. CalRecycle conducted similar generator studies as part of the *1999 Statewide Waste Characterization Study* and the *2006 Waste Disposal and Diversion Findings for Selected Industry Groups*. The results of the present study provide CalRecycle with updated information about disposal and diversion activities among commercial and multi-family generators statewide and by industry group.

### Summary of Approach

A total of 837 unique commercial generator sites and 52 unique multi-family generator sites participated in the study. Sites were recruited from the five regions of the state designed for this study: Bay Area, Coastal, Mountain, Southern, and Central Valley. Sampling occurred during four seasons in 2014. Recruitment staff gathered data from each participating site to (1) determine how to arrange and conduct visits for data collection purposes, (2) quantify and characterize disposal and diversion, and (3) correlate disposal and diversion information with other information about the generator

(such as number of employees, participation in recycling programs, number of visitors, etc.).

The study included the following 16 industry groups, as well as multi-family complexes:

- Arts, Entertainment, & Recreation
- Durable Wholesale & Trucking
- Education
- Hotels & Lodging
- Manufacturing Electronic Equipment
- Manufacturing Food & Nondurable Wholesale
- Manufacturing All Other
- Medical & Health
- Public Administration
- Restaurants
- Retail Trade Food & Beverage Stores
- Retail Trade All Other
- Services Management, Administrative, Support, & Social
- Services Professional, Technical, & Financial
- Services Repair & Personal
- Not Elsewhere Classified

Industry groups were designed according to several factors: grouping business types with similar waste generation profiles and purposes; focusing on industries that generate large amounts of organics; focusing on industries with high employment in California; combining industries with less employment or fewer diversion opportunities into a final group; and project budget. The construction industry group was not included in this study because waste associated with this industry is mainly generated at building sites rather than the site of the business office. Waste disposed from construction activities and sites was characterized in a separate CalRecycle study titled *California 2014 Waste Characterization Study*.

Disposed waste was characterized by obtaining one 200-pound sample from each disposal stream at each site and hand-sorting it into 82 material categories. Diverted materials were characterized by obtaining one sample of up to 125 pounds from each diversion stream at each site and characterizing it according to the same 82 material categories used for disposal samples. Disposal and diversion were quantified through

measurements of material accumulation in dumpsters, interviews with staff, examination of disposal and diversion records, and inspection of recycling and diversion systems during on-site visits. Generation rates for disposal and diversion streams were determined on a per employee basis for businesses and per occupied unit for multi-family complexes.

### Summary of Findings

For the overall commercial sector, findings are presented in three ways:

- First, an overview of the quantity generated in each material stream: Disposed, Curbside Recycle, Curbside Organics, and Other Diversion.
- Second, a breakdown of the composition of materials in each stream, according to potential recoverability.
- Third, a summary of the total generation by recoverability group. This includes materials that were diverted as well as divertible materials that were placed in the Disposed stream.

Several additional tables and figures follow the overall commercial sector summaries. These additional tables and figures include:

- A summary of total generation for each group, broken down by stream.
- An overview of the generation rate and diversion rate for each industry group.
- Key metrics for each group, including the three most prevalent divertible materials.

#### Key Findings for the Overall Commercial Sector

Figure 1 presents the annual tons for each material stream in the overall commercial sector. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins, and materials diverted through other means such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination—materials not typically acceptable in those streams, such as food in recycling bins or glass in organics bins. As shown, almost two-thirds of the material generated at businesses went to the Disposed stream, while the remaining one-third was in the diversion streams.

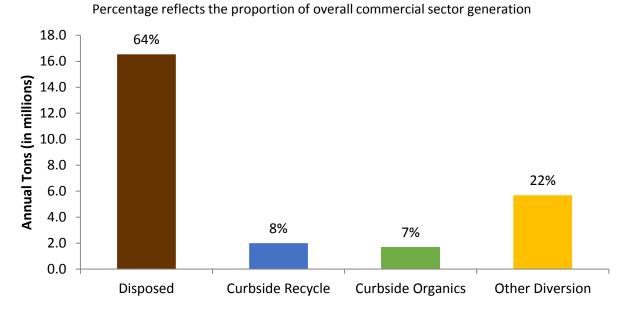
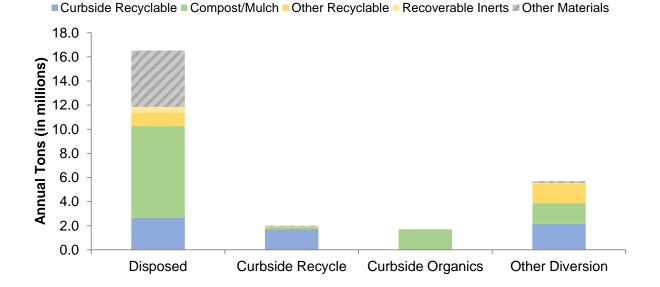


Figure 1. Annual Tons by Waste Stream: Overall Commercial Sector

Note: Numbers may not total exactly due to rounding.

The 82 material types included in the study were aggregated into five recoverability groups: **Curbside Recyclable**, **Compost/Mulch**, **Other Recyclable**, **Recoverable Inerts**, and **Other Materials**. Materials were classified based on whether they were commonly accepted in curbside recycling programs; commonly used for compost or mulch; generally recyclable through other means (such as electronic waste or textiles); recoverable through construction and demolition programs (inerts such as concrete and asphalt), or not usually recovered. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.

Each material stream was composed of many different material types and each of those material types was assigned to one of the five recoverability groups. Figure 2 breaks down the potential recoverability (by recoverability group) for each stream in the overall commercial sector. As shown, **Compost/Mulch** accounted for almost half of the Disposed stream. The Other Diversion stream was nearly evenly split among **Curbside Recyclable**, **Compost/Mulch**, and **Other Recyclable** materials. Figure 2 illustrates that recyclable materials were found in the Disposed stream and that materials not usually recovered ("**Other Materials**") were indeed recovered by some businesses. In fact, materials of all recoverability types were found in all streams.

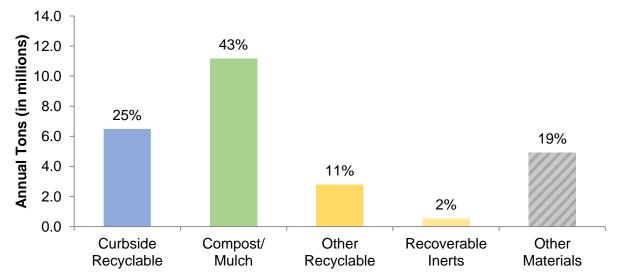


#### Figure 2. Recoverability by Stream: Overall Commercial Sector

2014 California Commercial Generator Waste Study

Figure 3 summarizes each recoverability group's proportion of total generation, based on the types of materials, regardless of which stream they were found in. Each bar includes materials both diverted and disposed. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 3 illustrates, approximately 43 percent of total generation in the overall commercial sector was material in the **Compost/Mulch** recoverability group, and approximately 25 percent was **Curbside Recyclable**. When combined, divertible materials accounted for roughly 81 percent of the overall commercial sector generation.

#### Figure 3. Recoverability of Materials Generated in the Overall Commercial Sector



Percentage reflects the proportion of overall commercial sector generation

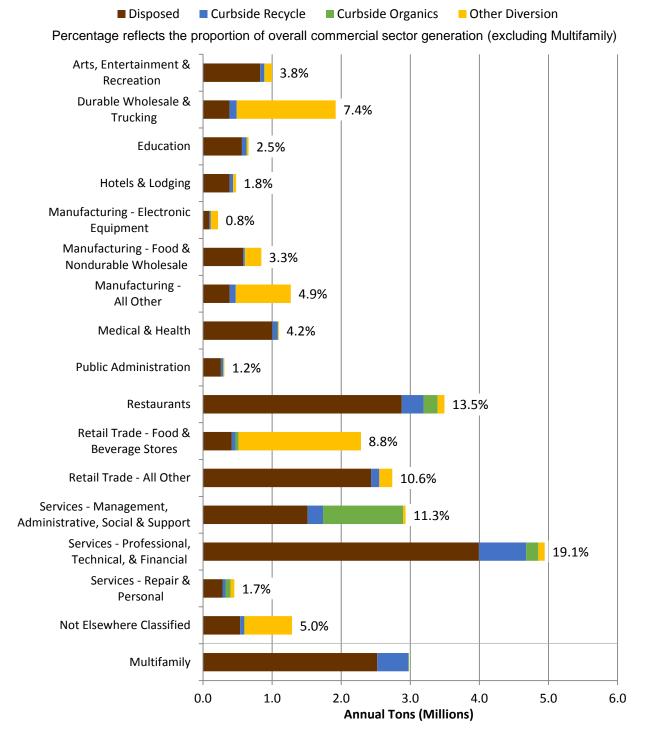
Taken together, Figures 1, 2, and 3 show that a large part of the discards generated by the commercial sector are recoverable, and there is significant potential to increase diversion of these materials from disposal. The remainder of this report provides details on the commercial waste stream to help understand industry sources for both disposed and recovered materials.

#### **Key Findings for Industry Groups**

Businesses generate waste in different ways—for example, restaurants and banks generate different types of materials. A business' waste generation pattern, its waste management practices, and the prevalence of that business type in California have an influence on the overall commercial sector waste stream. This section highlights key findings for several of the largest industry groups.

- The Services–Professional, Technical, and Financial group accounted for approximately 19 percent of overall commercial sector generation, making it the largest generator in the state. This group also employs the most people in California. Examples of business types in this group include banks, real estate agencies, architecture firms, and engineering companies. The majority of generation in this group is in the Disposed stream: materials that are disposed directly from the businesses without further significant recovery.
- At nearly 14 percent of overall generation, Restaurants is the second-largest industry group in the study. For Restaurants, the largest portion of the material generated went to the Disposed waste stream. Although more restaurants are participating in food diversion programs, food is the most prevalent divertible material type in the Restaurants' disposed waste.
- Services–Management, Administrative, Social, and Support and Retail Trade-All Other are the only other groups to generate more than 10 percent of the overall commercial sector waste. These two groups have very different total generation composition profiles. Nearly 90 percent of the material generated by the "Retail Trade-All Other category went to the Disposed stream, but that proportion was approximately 52 percent in the Services-Management, Administrative, Social and Support group.
- Manufacturing–Electronic Equipment accounted for less than 1 percent of the overall commercial sector generation, making it the smallest group (by generation) in the state. Manufacturing-Electronic Equipment includes businesses manufacturing physical goods such as computers, radios, computing and memory chips, transformers, electrical appliances, and batteries, but it does not include software developers.

Figure 4 summarizes the annual generation by material stream for each industry group and the multi-family group. The percentages reflect that group's proportion of total commercial sector generation (nearly 26 million tons), excluding the multi-family group.



#### Figure 4. Annual Generation for Industry Groups, by Stream

The industry groups addressed by this study that achieve the highest diversion rates do so mainly by implementing effective programs to divert corrugated cardboard boxes, scrap metal, food and other organics, or pallets. Of the groups addressed in this study, Durable Wholesale and Trucking and Retail–Food and Beverage Stores have the highest diversion rates. Businesses in these groups divert 80 percent and 82 percent of their total generation, respectively. These groups achieve the vast majority of their diversion outside the normal curbside collection programs, primarily through back-hauling pallets for reuse, directly selling their baled cardboard and scrap metal, or self-hauling their compostable materials to organics processors.

The Education and Multi-Family industry groups each divert an estimated 15 percent of their generation. Retail Trade–All Other and Medical and Health businesses have the lowest diversion rates, at 11 percent and 9 percent respectively.

The generation and diversion rate information, on a per employee basis, is summarized in Table 1.

		Tons per Employee per Year					
Group Number and Name		Disposed	Curbside Recycle	Curbside Organics	Other Diversion	Generation	Diversion Rate
<b>Overall Commercial Sector</b>		1.13	0.14	0.12	0.39	1.77	36%
1	Arts, Entertainment, & Recreation	2.56	0.17	0.03	0.33	3.08	17%
2	Durable Wholesale & Trucking	0.60	0.17	0.00	2.23	2.99	80%
3	Education	0.43	0.05	0.01	0.02	0.50	15%
4	Hotels & Lodging	1.72	0.22	0.01	0.18	2.14	20%
5	Manufacturing - Electronic Equipment	0.31	0.07	0.00	0.36	0.75	58%
6	Manufacturing - Food & Nondurable Wholesale	1.28	0.05	0.01	0.51	1.85	31%
7	Manufacturing - All Other	0.45	0.10	0.00	0.94	1.50	70%
8	Medical & Health	0.67	0.05	0.01	0.01	0.74	9%
9	Public Administration	0.32	0.04	0.00	0.02	0.39	16%
10	Restaurants	2.40	0.26	0.17	0.08	2.92	18%
11	Retail Trade - Food & Beverage Stores	1.21	0.15	0.13	5.15	6.64	82%
12	Retail Trade - All Other	2.14	0.10	0.00	0.17	2.41	11%
13	Services - Management, Administrative, Support, & Social	0.74	0.11	0.57	0.02	1.44	48%
14	Services - Professional, Technical, & Financial	1.86	0.32	0.08	0.04	2.31	19%
15	Services - Repair & Personal	0.94	0.15	0.24	0.18	1.50	38%
16	Not Elsewhere Classified	0.50	0.05	0.01	0.64	1.20	58%
17	Multifamily*	0.74	0.13	0.00		0.87	15%

Table 1. Generation Rate Summary by Weight, by Group (TPEPY)

\*Multifamily is reported in tons per unit per year

Based on the field data collection, key findings for each industry group are presented below in Table 2 through Table 19. These key findings include disposed tons per employee per year (TPEPY), diverted TPEPY, disposed tons, diverted tons, diversion rate, and the three most prevalent divertible materials (by weight) in the Disposed stream.

In general, compostable materials such as food, leaves and grass, and lower-grade compostable papers present an opportunity to greatly increase diversion for most of the industry groups. Recyclable papers such as cardboard and mixed paper also show significant potential for further recycling, as does lumber, for several industry groups.

**Overall Commercial Sector Key Findings and Metrics** Disposed Diverted Disposed Diverted Diversion TPEPY TPEPY Tons Tons Rate 1.13 16,536,664 0.64 9,396,087 36% **Top Three Diversion Opportunities in Disposed Stream** • Food (24%, 4,035,748 tons) • Remainder/Composite Paper - Compostable (10%, 1,673,592 tons) Clean Pallets & Crates (4%, 735,005 tons)

Table 2. Key Findings and Metrics: Overall Commercial Sector

#### Table 3. Key Findings and Metrics: Arts, Entertainment, & Recreation

Arts, Entertainment, & Recreation						
Key Findings and Metrics						
Disposed	Diverted	Disposed	Diverted	Diversion		
TPEPY	TPEPY	Tons	Tons	Rate		
2.56	0.52	829,661	168,036	17%		
Top Three Diversion Opportunities in Disposed Stream						
<ul> <li>Food (34%, 278,639 tons)</li> </ul>						
<ul> <li>Remainder/Composite Paper - Compostable (9%, 78,350 tons)</li> </ul>						
• Leaves and Grass (6%, 48,015 tons)						

Table 4. Key Findings and Metrics:	Durable Wholesale & Trucking
------------------------------------	------------------------------

Durable Wholesale & Trucking							
Key Findings	Key Findings and Metrics						
Disposed TPEPY	Diverted TPEPY	Disposed Tons	Diverted Tons	Diversion Rate			
0.60	0.60 2.40 381,767 1,538,803 80%						
Top Three Div	Top Three Diversion Opportunities in Disposed Stream						
<ul> <li>Clean Pallets &amp; Crates (13%, 50,937 tons)</li> <li>Food (10%, 38,192 tons)</li> <li>Remainder/Composite Paper - Compostable (6%, 24,689 tons)</li> </ul>							

#### Table 5. Key Findings and Metrics: Education

Education							
Key Findings	Key Findings and Metrics						
Disposed	Diverted	Disposed	Diverted	Diversion			
TPEPY	TPEPY	Tons	Tons	Rate			
0.43	0.07	562,442	97,926	15%			
Top Three Div	ersion Opportu	inities in Dispos	sed Stream				
<ul> <li>Food (34)</li> </ul>	<ul> <li>Food (34%, 189,957 tons)</li> </ul>						
<ul> <li>Remainder/Composite Paper - Compostable (13%, 71,730 tons)</li> </ul>							
Other M	iscellaneous Pap	per - Other (4%,	22,709 tons)				

### Table 6. Key Findings and Metrics: Hotels & Lodging

Hotels & Lodging								
Key Findings	Key Findings and Metrics							
Disposed	Diverted	Disposed	Diverted	Diversion				
TPEPY	TPEPY	Tons	Tons	Rate				
1.72	1.72 0.42 384,327 93,712 20%							
Top Three Div	Top Three Diversion Opportunities in Disposed Stream							
<ul> <li>Food (32%, 123,483 tons)</li> </ul>								
<ul> <li>Remainder/Composite Paper - Compostable (9%, 34,549 tons)</li> </ul>								
<ul> <li>Other M</li> </ul>	iscellaneous Pap	per - Other (3%,	10,188 tons)					

Manufacturing - Electronic Equipment							
Key Findings	Key Findings and Metrics						
Disposed TPEPY	Diverted TPEPY	Disposed Tons	Diverted Tons	Diversion Rate			
0.31	0.31 0.43 91,265 125,666 58%						
Top Three Div	Top Three Diversion Opportunities in Disposed Stream						
<ul> <li>Remainder/Composite Paper - Compostable (13%, 11,945 tons)</li> <li>Food (11%, 10,310 tons)</li> <li>Clean Pallets &amp; Crates (11%, 9,598 tons)</li> </ul>							

#### Table 8. Key Findings and Metrics: Manufacturing – Food & Nondurable Wholesale

Manufacturing - Food & Nondurable Wholesale							
Key Findings	Key Findings and Metrics						
Disposed	Diverted	Disposed	Diverted	Diversion			
TPEPY	TPEPY	Tons	Tons	Rate			
1.28	1.28 0.57 582,486 261,646 31%						
<b>Top Three Div</b>	Top Three Diversion Opportunities in Disposed Stream						
<ul> <li>Food (38)</li> </ul>	<ul> <li>Food (38%, 220,403 tons)</li> </ul>						
<ul> <li>Remainder/Composite Paper - Compostable (8%, 45,184 tons)</li> </ul>							
Clean Pa	allets & Crates (4	4%, 23,205 tons)	)				

#### Table 9. Key Findings and Metrics: Manufacturing – All Other

Manufacturing - All Other								
Key Findings	Key Findings and Metrics							
Disposed	Diverted	Disposed	Diverted	Diversion				
TPEPY	TPEPY	Tons	Tons	Rate				
0.45	0.45 1.05 384,292 885,586 70%							
Top Three Div	Top Three Diversion Opportunities in Disposed Stream							
<ul> <li>Remainder/Composite Paper - Compostable (8%, 29,777 tons)</li> </ul>								
<ul> <li>Food (7%, 26,907 tons)</li> </ul>								
Clean Pa	allets & Crates (6	5%, 21,632 tons)	1					

#### Table 10. Key Findings and Metrics: Medical & Health

Medical & Health							
Key Findings	Key Findings and Metrics						
Disposed	Diverted	Disposed	Diverted	Diversion			
TPEPY	TPEPY	Tons	Tons	Rate			
0.67	0.06	1,003,316	93,629	9%			
Top Three Div	Top Three Diversion Opportunities in Disposed Stream						
<ul> <li>Food (22)</li> </ul>	<ul> <li>Food (22%, 216,983 tons)</li> </ul>						
<ul> <li>Remainder/Composite Paper - Compostable (11%, 109,841 tons)</li> </ul>							
<ul> <li>Leaves a</li> </ul>	and Grass (3%, 2	26,201 tons)					

#### Table 11. Key Findings and Metrics: Public Administration

Public Administration								
Key Findings	Key Findings and Metrics							
Disposed	Diverted	Disposed	Diverted	Diversion				
TPEPY	TPEPY	Tons	Tons	Rate				
0.32	0.32 0.06 259,137 50,354 16%							
Top Three Div	Top Three Diversion Opportunities in Disposed Stream							
<ul> <li>Food (17%, 44,508 tons)</li> <li>Remainder/Composite Paper - Compostable (14%, 37,208 tons)</li> <li>Clean Pallets &amp; Crates (5%, 13,416 tons)</li> </ul>								

#### Table 12. Key Findings and Metrics: Restaurants

Restaurants						
Key Findings	and Metrics					
Disposed TPEPY	Diverted TPEPY	Disposed Tons	Diverted Tons	Diversion Rate		
2.40	0.52	2,876,653	617,826	18%		
Top Three Div	Top Three Diversion Opportunities in Disposed Stream					
Remaine	1%, 1,461,319 to der/Composite P per (3%, 76,093	aper - Composta	able (12%, 350,2	40 tons)		

Retail Trade - Food & Beverage Stores					
Key Findings	and Metrics				
Disposed TPEPY	Diverted TPEPY	Disposed Tons	Diverted Tons	Diversion Rate	
1.21	5.43	417,791	1,868,403	82%	
Top Three Div	ersion Opportu	nities in Dispos	sed Stream		
<ul> <li>Food (42%, 173,504 tons)</li> <li>Remainder/Composite Paper - Compostable (9%, 37,501 tons)</li> <li>Other Miscellaneous Paper - Other (3%, 13,492 tons)</li> </ul>					

#### Table 13. Key Findings and Metrics: Retail Trade – Food & Beverage Stores

#### Table 14. Key Findings and Metrics: Retail Trade – All Other

Retail Trade - All Other								
Key Findings and Metrics								
Disposed	Disposed Diverted Disposed Diverted Diversion							
TPEPY	TPEPY	Rate						
2.14	0.27 2,433,989 306,012 11%							
Top Three Diversion Opportunities in Disposed Stream								
<ul> <li>Food (18)</li> </ul>	<ul> <li>Food (18%, 437,469 tons)</li> </ul>							
<ul> <li>Remainder/Composite Paper - Compostable (9%, 209,655 tons)</li> </ul>								
Clean Pa	allets & Crates (6	6%, 135,886 ton	s)					

## Table 15. Key Findings and Metrics: Services – Management, Administrative, Support, & Social

Services - Management, Administrative, Support, & Social									
Key Findings and Metrics									
Disposed TPEPY									
0.74	.74 0.70 1,514,667 1,417,462 48%								
Top Three Div	Top Three Diversion Opportunities in Disposed Stream								
<ul> <li>Food (25%, 376,502 tons)</li> <li>Remainder/Composite Paper - Compostable (11%, 164,498 tons)</li> <li>Leaves and Grass (6%, 86,284 tons)</li> </ul>									

## Table 16. Key Findings and Metrics: Services – Professional, Technical, & Financial

Services - Professional, Technical, & Financial								
Key Findings and Metrics								
Disposed TPEPY	DivertedDisposedDivertedDiversionTPEPYTonsTonsRate							
1.86	0.44 3,994,643 949,869 19%							
Top Three Diversion Opportunities in Disposed Stream								
<ul> <li>Remainder/Composite Paper - Compostable (10%, 395,521 tons)</li> <li>Clean Pallets &amp; Crates (8%, 332,687 tons)</li> <li>Food (8%, 330,452 tons)</li> </ul>								

#### Table 17. Key Findings and Metrics: Services – Repair & Personal

Services - Repair & Personal									
Key Findings and Metrics									
Disposed TPEPY									
0.94	0.57 281,371 170,866 38%								
Top Three Div	Top Three Diversion Opportunities in Disposed Stream								
<ul> <li>Remainder/Composite Paper - Compostable (9%, 24,506 tons)</li> <li>Food (7%, 20,927 tons)</li> <li>Uncoated Corrugated Cardboard (5%, 15,017 tons)</li> </ul>									

#### Table 18. Key Findings and Metrics: Not Elsewhere Classified

Not Elsewhere Classified									
Key Findings and Metrics									
Disposed	Disposed Diverted Disposed Diverted Diversion								
TPEPY	TPEPY	Rate							
0.50	0.70 538,858 750,291 58%								
Top Three Diversion Opportunities in Disposed Stream									
<ul> <li>Food (16%, 86,197 tons)</li> </ul>									
<ul> <li>Remainder/Composite Paper - Compostable (9%, 48,398 tons)</li> </ul>									
<ul> <li>Leaves a</li> </ul>	and Grass (6%, 3	30,678 tons)							

Multifamily								
Key Findings and Metrics								
Disposed	Diverted	Disposed	Diverted	Diversion				
TPUPY	TPUPY	Rate						
0.74	0.13 2,524,183 460,083 15%							
Top Three Div	ersion Opportu	inities in Dispos	sed Stream					
• Food (25	• Food (25%, 625,274 tons)							
<ul> <li>Textiles (7%, 188,044 tons)</li> </ul>								
Remain	der/Composite P	aper - Composta	able (7%, 170,87	'5 tons)				

#### Table 19. Key Findings and Metrics: Multi-Family

#### Additional Analysis – Assessment of Commercial Curbside Diversion

In 2012, California's Mandatory Commercial Recycling (MCR) law went into effect, requiring businesses to take actions to divert materials from disposal. Businesses can comply by source-separating materials and having them delivered for recycling or composting. They can also comply by subscribing to a service that may include mixed-waste processing (i.e., recyclables are not separated and the entire waste stream is processed), as long as the results are comparable to source separation. In order to determine what's comparable to source separation, an assessment of that source separation is needed. This part of the study provides one assessment of source separation.

This special analysis aimed to assess the performance of curbside programs by focusing on curbside diversion by businesses and multi-family sites. Curbside programs capture the materials that would be processed by a "clean" material recovery facility (MRF) or an organics processing facility. The generator sites used for this task were a subset of those used for the whole study. They were selected to represent the make-up of California's overall commercial and multi-family sector as a whole, not by industry group. To be included, the business site must have curbside recycling and/or organics service. Since the Mandatory Commercial Recycling law includes multi-family sites, the multi-family sector was included in the analysis. The analysis excluded Other Diversion—the items diverted through other methods such as back-hauling, self-hauling, take-back programs, and other means.

For this analysis the field crew performed a more detailed sort of Disposed, Curbside Recycle, and Curbside Organics samples from the subset of generators selected to participate in this part of the study. The field crew collected additional details on the level and the source of contamination for certain materials in these samples. The purpose of the contamination subsort was to estimate the fraction of the sorted materials that a MRF or organics processor could recover, recognizing some "recoverable" material arriving at a facility is too contaminated to be recovered.

As shown in Table 20, approximately 21 percent of the material placed in bins at businesses and multi-family complexes is recovered through curbside diversion programs capturing the standard recoverable materials.

Table 20. Recover	y Rate for Commercial Curbside Diversion
-------------------	------------------------------------------

	Disposed Tons		Cur	bside Recycle 1	ons	Curb	side Organics	Tons				
	Clean	Bin Contaminated	Source Contaminated	Clean	Bin Contaminated	Source Contaminated	Clean	Bin Contaminated	Source Contaminated	Recovered Tons	Generated Tons	Percent Recovered
Uncoated Corrugated Cardboard	155,292	71,482	8,253	1,035,182	17,201	58,076	3,116	63	18	1,038,380	1,348,685	77.0%
Paper Bags	19,268	21,988	6,714	15,945	62	485	39	0	0	15,984	64,502	24.8%
Newspaper	104,316	120,611	19,708	89,170	34,772	0	45	812	0	90,027	369,434	24.4%
White Ledger Paper	119,029	43,706	8,382	133,712	1,867	1,123	0	48	0	133,760	307,867	43.4%
Other Office Paper	116,385	57,112	6,007	103,406	3,071	1,733	45	369	0	103,821	288,130	36.0%
Magazines and Catalogs	44,032	8,720	23,621	79,857	1,540	2,018	0	0	0	79,857	159,788	50.0%
Phone Books and Directories	2,097	377	1,597	2,025	417	151	0	0	0	2,025	6,664	30.4%
Other Miscellaneous Paper - Compostable	14,048	14,805	16,727	47,765	1,779	13,277	6,065	397	1,756	8,218	116,618	7.0%
Other Miscellaneous Paper - Other	174,951	175,361	45,380	118,719	1,496	4,950	420	202	0	119,341	521,479	22.9%
Remainder/Composite Paper - Compostable	194,629	7,396	1,098,247	14,581	51	4,250	0	3,954	23	3,978	1,323,132	0.3%
Clear Glass Bottles and Containers - CRV*	54,505	N/A	N/A	29,604	N/A	N/A	424	N/A	N/A	29,604	84,533	35.0%
Clear Glass Bottles and Containers - Non-CRV*	48,486	N/A	N/A	41,179	N/A	N/A	4,628	N/A	N/A	41,179	94,292	43.7%
Green Glass Bottles and Containers - CRV*	12,200	N/A	N/A	9,563	N/A	N/A	0	N/A	N/A	9,563	21,762	43.9%
Green Glass Bottles and Containers - Non-CRV*	36,110	N/A	N/A	45,811	N/A	N/A	7,325	N/A	N/A	45,811	89,246	51.3%
Brown Glass Bottles and Containers - CRV*	32,698	N/A	N/A	20,823	N/A	N/A	397	N/A	N/A	20,823	53,918	38.6%
Brown Glass Bottles and Containers - Non-CRV*	5,293	N/A	N/A	6,551	N/A	N/A	1,125	N/A	N/A	6,551	12,969	50.5%
Other Colored Glass Bottles and Containers - CRV*	297	N/A	N/A	0	N/A	N/A	0	N/A	N/A	0	297	0.0%
Other Colored Glass Bottles and Containers - Non-CRV*	667	N/A	N/A	349	N/A	N/A	0	N/A	N/A	349	1,016	34.3%
Tin/Steel Cans - CRV Bimetal Containers	1,104	0	4,345	1,260	0	39	22	0	0	1,260	6,770	18.6%
Tin/Steel Cans - Other	20,125	6,214	46,215	13,466	0	8,870	0	617	0	13,466	95,507	14.1%
Aluminum Cans - CRV	13,151	1,261	3,879	4,610	0	0	62	20	2	4,610	22,984	20.1%
Aluminum Cans - Non-CRV	2,787	161	3,126	2,151	0	936	0	0	0	2,151	9,161	23.5%
PETE Containers - CRV	31,151	1,258	12,569	20,186	0	564	373	59	0	20,186	66,159	30.5%
PETE Containers - Non-CRV	6,092	1,098	26,843	18,511	487	12,689	32	152	13	18,511	65,918	28.1%
HDPE Containers - CRV	3,863	0	3,487	1,318	0	13	0	0	0	1,318	8,681	15.2%
HDPE Containers - Non-CRV	10,182	1,333	47,174	20,752	1,561	4,710	23	56	0	20,752	85,790	24.2%
Miscellaneous Plastic Containers - CRV	1,229	256	3,713	282	0	17	0	0	0	282	5,497	5.1%
Miscellaneous Plastic Containers - Non-CRV	9,717	1,032	35,081	28,259	0	5,916	197	50	52	28,259	80,303	35.2%
Food*	3,320,900	N/A	N/A	65,473	N/A	N/A	275,510	N/A	N/A	275,510	3,661,883	7.5%
Leaves and Grass*	432,571	N/A	N/A	416	N/A	N/A	1,373,674	N/A	N/A	1,373,674	1,806,661	76.0%
Prunings and Trimmings*	259,666	N/A	N/A	6,269	N/A	N/A	28,603	N/A	N/A	28,603	294,538	9.7%
Standard Recoverable Materials Subtotal	5,246,840	534,172	1,421,068	1,977,196	64,305	119,817	1,702,125	6,800	1,863	3,537,852	11,074,185	31.9%
All Other Materials**	N/A	N/A	5,330,706	N/A	N/A	288,020	N/A	N/A	5,121	0	5,623,847	0%
Statewide Total for Businesses and Multifamily Complexes with Curbside Diversion	5,246,840	534,172	6,751,774	1,977,196	64,305	407,836	1,702,125	6,800	6,984	3,537,852	16,698,032	21.2%

\* These materials were not subsorted for contamination. All glass containers, food, leave and grass, and prunings and trimmings are assumed to be recovered if in the appropriate bin.

\*\*These are materials that are not typically recoverable and most of these materials were not subsorted for contamination.

## Introduction and Overview

The California Department of Resources Recycling and Recovery (CalRecycle) commissioned this study of commercial and multi-family waste generators to quantify and characterize material that was disposed or diverted by representative members of key industry groups. The resulting data provided CalRecycle with information about disposal and diversion activities among commercial and multi-family generators as a whole and by industry group. The industry group data provided information on sources of materials disposed and diverted by businesses and can help businesses, local governments, and CalRecycle better direct efforts to increase diversion and reduce disposal.

This study is part of a larger project that also included a disposal facility-based waste characterization study. The entire project consisted of four main tasks:

- Task 1: A comprehensive statewide characterization of materials disposed in California's waste stream, from residential, commercial, and self-hauled sectors, using disposal facility-based sampling. The results of this study are reported separately in <u>2014 Disposal-Facility-Based Characterization of Solid Waste in</u> <u>California</u>.
- Task 2: A characterization of materials disposed from industry groups, and the commercial sector as a whole, using generator-based sampling.
- Task 3: An assessment of recovery of materials from commercial sourceseparation systems, using generator-based sampling (using data collected from Task 2 and Task 4).
- Task 4: A characterization of materials diverted from industry groups, and the commercial sector as a whole, using generator-based sampling.

The results of Tasks 2, 3, and 4 are reported here. These tasks are described further in Appendix A: Detailed Methodology.

CalRecycle conducted similar generator studies as part of the *1999 Statewide Waste Characterization Study* and the *2006 Waste Disposal and Diversion Findings for Selected Industry Groups.* The results from this study are not directly comparable with those previous studies due to changes in the methodology. Industry groups in the previous studies were based on Standard Industrial Classification (SIC) business codes; however, this study uses the current system, the North American Industrial Classification System (NAICS) business codes, to group businesses. The number of industry groups, and the types of businesses included in those industry groups, is different than in previous studies. Perhaps the biggest difference is in the number of material streams included. The 1999 study focused exclusively on the disposed stream, while the 2006 study included both disposal and a more limited characterization and quantification of the diversion streams than this study. This study included detailed sorting of materials in curbside recycling and curbside organics bins as well as quantification of materials diverted through other means.

### **Objectives of the Study**

The objective of this study was to develop representative disposal and diversion composition, quantity, and rate data for key industry groups and for the multi-family sector. The rate data is presented as tons per employee per year (TPEPY) for businesses and as tons per occupied unit per year (TPUPY) for multi-family sites. This study included the entire commercial sector, divided into 16 industry groups, as well as multi-family properties. This study was completed using a carefully designed sequence of field sampling, sorting, and quantification activities involving interviews and visits with representative commercial establishments and multi-family properties. The resulting data provides a complete picture of waste generated by commercial and multi-family generators, as well as information on the types of diversion activities occurring in the business sectors and multi-family sites included in the study. CalRecycle will use the data from the study to update its waste characterization database.

### **Contributing Consultants**

This study was managed by Cascadia Consulting Group, Inc., an environmental consulting firm based in Seattle, Washington. It relied on data collection activities conducted by Sky Valley Associates and L2 Environmental. The distribution of responsibilities was as follows:

- Cascadia Consulting Group, Inc.
  - Project management
  - Study design
  - o Coordination of business site recruitment
  - Coordination of data collection
  - Data entry and analysis
  - Reporting
- Sky Valley Associates
  - o Collection, characterization, and quantification of disposed waste
- L2 Environmental
  - Collection, characterization, and quantification of diverted material

The consultants provided training to CalRecycle staff in the recruitment and field data collection procedures. CalRecycle staff assisted with the facility recruitment and some sample site recruitment. For the purposes of this study, we will refer to any of the parties mentioned here as "the project team."

#### **Material Streams**

Text, tables, and figures throughout this report refer to the four waste streams included in the study: Disposed, Curbside Recycle, Curbside Organics, and Other Diversion. Each of those streams is defined as follows.

**Disposed** – materials headed to a landfill (either directly or indirectly via transfer station) with no further processing. May be collected by a third party or self-hauled.

**Curbside Recycle –** non-putrescible materials hauled by a contracted third party to a material recovery facility (MRF) that receives source-separated recyclable materials (i.e., "clean MRF").

**Curbside Organics** – putrescible material hauled by a contracted third party to a permitted facility mainly engaged in producing compost or mulch, or in anaerobic digestion of organics. Minor mechanical separation of contaminants or recyclable materials may occur at the facility prior to composting or digestion.

**Other Diversion –** all other forms of diversion including self-haul of materials to a MRF or compost facility, mixed-waste processing, source reduction, on-site composting, and reuse. This also includes materials that the generator sells directly to a market. For example, scrap metal sold directly to a recycler or bedding and manure sold as fertilizer by a horse racing track to a local farm is counted as Other Diversion.

Every stream of materials characterized or quantified at every site is assigned to one of these four streams. In many of the tables, figures, and text throughout the report, the four streams are further aggregated in two ways:

Generation – the sum of the four streams.

**Curbside Diversion** – the sum of the Curbside Recycle quantities and the Curbside Organics quantities.

#### **Explanation of Tasks**

This generator study was divided into two major tasks:

- Calculate industry group specific disposed materials composition and quantity data through sampling at approximately 850 commercial and multi-family generator sites. This task is referred to as Task 2.
- Calculate industry group specific diverted materials composition and quantity data through sampling at a 430-member subset of the commercial and multi-family generator sites recruited for the study. This task, referred to as Task 4, included any materials that would normally be a part of the waste stream diverted through any method (including curbside diversion, back-hauling, self-hauling, take-back programs, and other methods). It excluded diversion of hazardous materials; medical waste; manufacturing and process chemicals;

fats, oils, and grease; industrial quantities of tires; and other items that are not normally accepted for disposal at municipal solid waste landfills. Although ewaste is banned from landfills, the study did characterize and quantify the diversion of these materials.

The study also included a special analysis (referred to as Task 3) on a subset of the generator sites included in Task 4. Task 3 aimed to assess the performance of curbside programs by focusing on curbside diversion by businesses and multi-family sites. The analysis excluded Other Diversion—the items diverted through back-hauling, self-hauling, take-back programs, and other such methods.

The project team used the same basic methodology in all three tasks; the differences among tasks were isolated to the material streams characterized, the methods used to allocate samples among the regions and industry groups, and the level of detail in the material list used for sorting.

### **Industry Groups**

The project team recruited commercial generators from 16 industry groups as well as multi-family complexes. Industry groups were designed using the North American Industry Classification System (NAICS), and with several factors in mind: business types with similar waste generation profiles and purposes; industries that generate large amounts of organics; industries with high employment in California; industries with less employment or less diversion opportunities; and project budget. The construction industry group was not included in this study because waste associated with this industry is mainly generated at building sites rather than the site of the business office. Waste generated from construction activities and sites was characterized in a separate disposal facility-based study by CalRecycle.

Industry groups 8 and 16 include subgroups. The project team allocated samples to the listed subgroups but reported results at the group level. The industry groups and subgroups included in this study are listed in Table 21, and the three-digit NAICS codes corresponding to each of the 16 industry groups are listed in Appendix A: Detailed Methodology.

The 16 business groups (and their associated subgroups) were further divided by size based on reported employment at the site, as noted in Table 21. For each group, the number of employees distinguishes small businesses from large businesses. The size break was selected so that approximately 20 percent of employment in a group fell into small businesses (ones that have fewer employees than the size break number) and approximately 80 percent fell into large businesses (the other businesses in the group). During recruitment, the project team attempted to obtain a 4:1 ratio between large businesses and small businesses for each industry group. This was a group level target; the ratio within each region or season may not have been 4:1. Since small businesses often represent the majority of the number of businesses, but large businesses often represent the majority of employment in an industry group, this ensured each size class was properly represented. Very small businesses, those with fewer than five employees, were excluded from the study because they do not generate enough

material weekly to meet the minimum sample weights and frequently share bins with other businesses. For most industry groups, businesses with fewer than five employees made up far less than 10 percent of all employment for the group; overall, they account for 5 percent of statewide employment.

The multi-family group included complexes with five or more units; complexes with four or fewer units were not included in this study. Disposal characterization and quantity data for multi-family sites in the first two seasons was collected in a separate disposal facility-based study. Over the final two seasons, multi-family characterization and quantity data was collected as part of Task 2. Multi-family diversion characterization was part of Task 4 in this study for all four seasons. The multi-family group was not divided into subgroups by size.

	Industry Group						
Number	Name	Size Break					
1	Arts, Entertainment, & Recreation	20					
2	Durable Wholesale & Trucking	20					
3	Education	20					
4	Hotels & Lodging	50					
5	Manufacturing - Electronic Equipment	100					
6	Manufacturing - Food & Nondurable Wholesale	20					
7	Manufacturing - All Other	50					
8	Medical & Health						
	Ambulatory Health Care Services	10					
	Hospital, Nursing, & Residential Care Facilities	50					
9	Public Administration	20					
10	Restaurants	20					
11	Retail Trade - Food & Beverage Stores	20					
12	Retail Trade - All Other	10					
13	Services - Management, Administrative, Support, & Social	20					
14	Services - Professional, Technical, & Financial	10					
15	Services - Repair & Personal	10					
16	Not Elsewhere Classified						
	Agriculture & Resources	20					
	Utilities & Waste Management	20					
	Retail Trade - Building Materials & Garden	20					
	Transportation - All	20					
	Motion Picture & Sound Recording	20					
01	Multifamily	N/A					

Table 21. Industry Groups and Size Breaks between Small and Large Businesses

## Sample Allocations

The project team ultimately collected data from 837 business sites and 52 multi-family complexes. The number of sites that participated in the generator-based disposal study (Task 2) and contributed each type of data (composition data or quantity data) are summarized in Table 22.

Group Number	Comm Name	Sample Goals	Total Sites	Sites Included in Composition	Sites Included in Quantity	Total Streams
			Visited	Calculations	Calculations	Sampled
1	Arts, Entertainment, & Recreation	50	54	54	53	54
2	Durable Wholesale & Trucking	50	51	51	45	52
3	Education	50	51	51	48	51
4	Hotels & Lodging	50	51	51	47	51
5	Manufacturing - Electronic Equipment	50	51	50	38	51
6	Manufacturing - Food & Nondurable Wholesale	50	52	51	47	53
7	Manufacturing - All Other	50	53	53	51	53
8	Medical & Health	50	55	55	53	55
	Ambulatory Health Care Services	25	25	25	25	25
	Hospital, Nursing, & Residential Care Facilities	25	30	30	28	30
9	Public Administration	50	51	51	48	51
10	Restaurants	50	51	51	49	51
11	Retail Trade - Food & Beverage Stores	50	53	53	51	53
12	Retail Trade - All Other	50	53	53	51	53
13	Services - Management, Administrative, Support, & Social	50	54	54	52	54
14	Services - Professional, Technical, & Financial	50	52	52	44	53
15	Services - Repair & Personal	50	52	52	52	52
16	Not Elsewhere Classified	50	53	53	49	53
	Agriculture & Resources	22	22	22	20	22
	Utilities & Waste Management	7	7	7	7	7
	Retail Trade - Building Materials & Garden	5	5	5	5	5
	Transportation - All	10	12	12	11	12
	Motion Picture & Sound Recording	6	7	7	6	7
	Commercial Subtotals	800	837	836	778	840
	Multifamily	50	52	52	52	52
	Totals	850	889	888	830	892

Table 22. Businesses Sampled – Disposal, by Group

The generator-based diversion study (Task 4) targeted 400 business and 30 multifamily sites for diversion sampling. Typically, diversion streams exhibit less variability from generator to generator than disposal streams. This homogeneity means fewer samples are required from diversion streams to achieve a given level of statistical confidence. For this reason, Task 4 targeted fewer generators than Task 2. The project team visited 481 generators and collected composition data from 445 generators. Those 481 generators divert material from more than 1,100 individual diversion streams. In addition to a curbside recycle stream and curbside organics stream, many generators have several other diversion streams such as diverted batteries or pallets back-hauled to a central distribution center for reuse. The number of generators included in the Task 4 diversion analysis is summarized in Table 23.

Group Number	Group Name	Sample Goals	Total Sites Visited	Sites Included in Composition Calculations	Sites Included in Quantity Calculations	Total Streams Sampled
1	Arts, Entertainment, & Recreation	25	25	20	25	49
2	Durable Wholesale & Trucking	25	25	23	25	78
3	Education	25	26	24	26	66
4	Hotels & Lodging	25	26	25	26	67
5	Manufacturing - Electronic Equipment	25	25	24	25	91
6	Manufacturing - Food & Nondurable Wholesale	25	28	26	28	64
7	Manufacturing - All Other	25	26	24	26	91
8	Medical & Health	25	33	29	33	62
	Ambulatory Health Care Services	13	18	15	18	29
	Hospital, Nursing, & Residential Care Facilities	12	15	14	15	33
9	Public Administration	25	25	25	25	66
10	10 Restaurants		27	26	27	45
11	Retail Trade - Food & Beverage Stores	25	26	24	26	96
12	Retail Trade - All Other	25	24	21	24	44
13	Services - Management, Administrative, Support, & Social	25	27	26	27	53
14	Services - Professional, Technical, & Financial	25	41	38	41	102
15	Services - Repair & Personal	25	25	21	25	50
16	Not Elsewhere Classified	25	33	31	33	75
	Agriculture & Resources	10	13	13	13	28
	Utilities & Waste Management	4	6	6	6	25
	Retail Trade - Building Materials & Garden	3	4	4	4	10
	Transportation - All	5	7	6	7	9
	Motion Picture & Sound Recording	3	3	2	3	3
	Commercial Subtotals	400	442	407	442	1,099
	Multifamily	30	39	38	39	45
	Totals	430	481	445	481	1,144

#### Table 23. Businesses Sampled – Diversion, by Group

The number of businesses included in the assessment of commercial source separation (Task 3) is summarized in Table 24. The distribution of sites with contamination subsorts reflects the makeup of California's commercial sector as a whole, based on employment.

		Disposed Stream Curbside Diversion Stre		rsion Streams	Total Sites with	
Group Number			Sites Included in Quantity Calculations	Sites Included in Composition Calculations	Sites Included in Quantity Calculations	Contamination Subsort
1	Arts, Entertainment, & Recreation	31	31	16	17	9
2	Durable Wholesale & Trucking	25	25	12	12	10
3	Education	44	42	22	22	20
4	Hotels & Lodging	37	35	21	21	6
5	Manufacturing - Electronic Equipment	33	27	17	17	4
6	Manufacturing - Food & Nondurable Wholesale	25	22	16	16	10
7	Manufacturing - All Other	25	23	16	16	13
8	Medical & Health	36	35	28	28	27
	Ambulatory Health Care Services	13	13	14	14	14
	Hospital, Nursing, & Residential Care Facilities	23	22	14	14	13
9	Public Administration	43	40	24	24	12
10	Restaurants	37	36	21	22	19
11	Retail Trade - Food & Beverage Stores	27	27	14	14	7
12	Retail Trade - All Other	32	30	17	17	19
13	Services - Management, Administrative, Support, & Social	40	39	24	24	24
14	Services - Professional, Technical, & Financial	28	26	35	35	33
15	Services - Repair & Personal	27	27	13	13	8
16	Not Elsewhere Classified	32	30	23	25	21
	Agriculture & Resources	17	16	10	12	10
	Utilities & Waste Management	6	6	5	5	4
	Retail Trade - Building Materials & Garden	2	2	3	3	2
	Transportation - All	2	2	3	3	3
	Motion Picture & Sound Recording	5	4	2	2	2
	Commercial Subtotals	522	495	319	323	242
	Multifamily	37	37	38	39	34
	Totals	559	532	357	362	276

Table 24. Businesses Included in Task 3 Analysis, by Group

Ideally, complete and high-quality data for both composition and waste quantity would be obtained for each site visited. This is not always the case. The recruitment goals put an emphasis on composition data, and were intended to be the minimum number of sites visited with complete composition data. For all tasks, if the actual number of sites visited exceeded the goal, it was primarily because for a particular site, either the composition or quantity information was not of high enough quality to include in the analysis. For example, the composition data for a site could be good but the quantity data was incomplete (i.e., a representative sample meeting minimum weight requirements was collected and sorted, but the overall quantity of materials could not be estimated with confidence). In this case, the site counted toward the goal, the composition data was included in the composition calculations, and the quantity data was not used. If the quantity data was good but the composition data was

#### Table 25. Example Recruitment Tracking

	Complete Data							
Site	Composition							
1	Yes	Yes						
2		Yes						
3	Yes	Yes						
4	Yes	Yes						
5	Yes	Yes						
6		Yes						
7	Yes	Yes						
8	Yes							
9		Yes						
10	Yes	Yes						
11	Yes							
12	Yes							
13		Yes						
14	Yes	Yes						
Total	10	11						

incomplete (i.e., the quantity of materials in the desired stream could be estimated with confidence but a representative composition sample could not be obtained and sorted), the site did not count toward the goal, the quantity data was included in the quantity calculations, the composition data was not used, and an additional site was recruited to make up for the missing composition data. This process was repeated until the recruitment goals were met. Table 25 illustrates an example in which 14 sites needed to be recruited to obtain 10 sites with good composition data (and 11 sites had sufficient quantity data).

# **Summary of Methods**

This section describes the methodology that the project team used to complete this work. For a more detailed description of the study methodology, see Appendix A: Detailed Methodology.

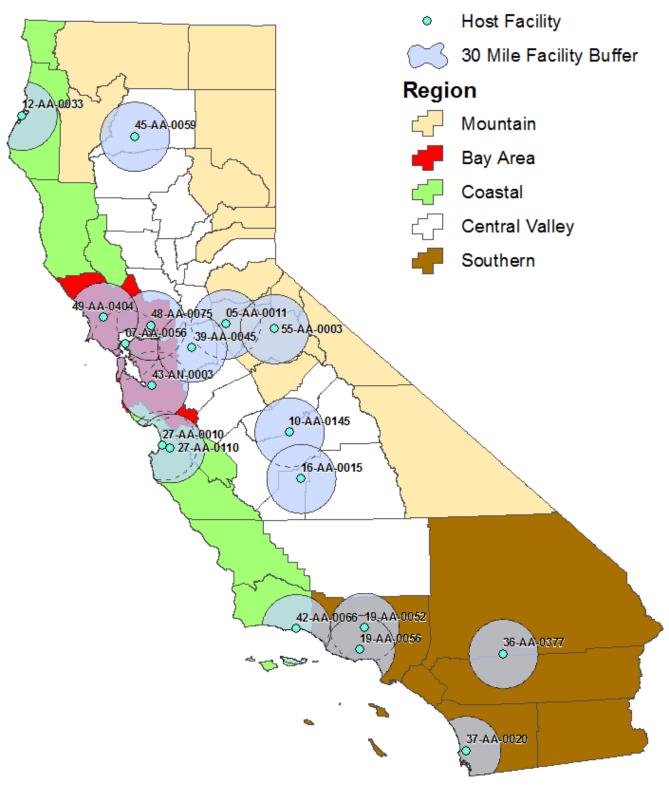
## Selection and Recruitment Process

This section details the sorting facility (node) and generator recruitment processes. Node and generator recruitment were interconnected: The project team recruited nodes first, and then recruited generators within 30 miles of each selected node.

## **Node Recruitment**

Since the study involved sampling and sorting of disposed waste, solid waste facilities such as landfills and transfer stations were recruited to be sites where samples could be sorted and disposed. These sites served as the central point, or node, used to define the areas where businesses were recruited. CalRecycle staff used CalRecycle's Solid Waste Information System (SWIS) database to identify potential nodes in each of the study regions that CalRecycle uses for waste characterization studies. The pool of potential nodes included only permitted facilities that accept putrescible solid waste for disposal or transfer/processing. To select nodes for each region and season, staff randomized the list of potential nodes, started recruitment calls at the top of each region's list, and continued until the required number of nodes had been recruited. Except for the Mountain region, the project team recruited one node per region for each of the seasons. Due to the low population and smaller number of businesses in the Mountain region, the project team recruited two nodes for that region and only visited the region during two seasons. A total of 18 nodes were used in the study.

The nodes and regions are mapped in Figure 5 along with their SWIS number and the 30-mile sample area around each node from which generators sites were recruited. See Appendix A: Detailed Methodology for an explanation of how counties were allocated to each region, and the counties included in each region.



#### Figure 5. Study Regions and Recruitment Nodes

## **Generator Site Recruitment and Assignment to Tasks**

After finalizing the list of nodes participating in the study, the project team generated a list of eligible commercial generator sites using the following steps:

- 1. Map a 30-mile circle around each selected node.
- 2. Determine which ZIP codes are wholly or substantially within the node circle.
- 3. Purchase a list of all businesses (from a private business data clearinghouse) with more than five employees within the included ZIP codes.
- 4. Randomize the list order, assign each site a unique ID number, and import the organized generator information into the recruitment database.

Since multi-family sites were not included in business databases and lists could not be purchased, the methods for generating a list of eligible multi-family sites were different from the methods for generating a list of eligible businesses. Also, for two seasons, multi-family sites were sampled as part of another study, and the nodes used for that sampling were different. The steps to develop a list of eligible multi-family sites included:

- 1. Mapping a 30-mile circle around each selected multi-family node,
- 2. Determining which cities are wholly or substantially within the node circle,
- 3. Developing a list of all multi-family sites within the included cities using an online Yellow Pages search,
- 4. Randomizing the list order and assigning each multi-family site a unique ID number, and importing the organized generator information into the recruitment database.

After developing the list of potential sites, the project team recruited generator sites for Task 2 using a two-step process. Step 1 included a phone call to confirm the generator's eligibility, willingness to participate, and contact information. If the recruiter discarded a potential site for any reason during Step 1, the next business on the list for that industry group was contacted. Step 2 included a follow-up phone call to collect the additional information needed to (1) determine how to arrange and conduct visits for data-collection purposes, (2) quantify and characterize disposal and diversion, and (3) correlate disposal and diversion information in recycling programs, number of visitors, etc.). The project team repeated these steps until the sampling targets were met. The project team recruited additional businesses as contingencies in the event that a site went out of business, backed out of the study, or was otherwise unavailable for sampling. This contingency was generally equal to about 10 percent of the group target.

The project team randomly selected sites for inclusion in Task 4 from the list of recruited generator sites. These were not additional generators; rather, they were a subset of the generators recruited to participate in Task 2.

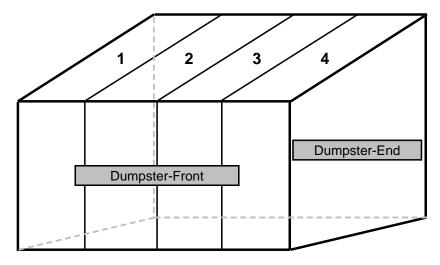
Task 3 included a special contamination subsort on a portion of the material types in the study. To select sites for the Task 3 subsort, the project team filtered the list of Task 4 sites to include only generators with curbside recycling or curbside organics service and randomly selected sites from within that filtered list. These sites may also have had Other Diversion, but data for that stream was excluded from this analysis.

## Site Visits

This section provides a description of the fieldwork processes for collecting samples, sorting samples, and quantifying material. The field crew visited each selected site to quantify disposal and diversion, and to collect samples for characterization.

## **Sample Collection**

The field crew collected a sample from a randomly selected vertical cross-section, or "slice," of material from the selected container (see Figure 6). Each sample consisted of all material in the slice, from the top to the bottom of the container. For garbage samples, the field crew ensured that each sample weighed at least 200 pounds. For diversion samples, the field crew collected all material in the container up to 125 pounds.





In cases where the material was inaccessible, unique arrangements were required for the sample collection to proceed. For example, if the site used a compactor, the team provided rolling carts for the businesses to deposit material into for one or more days, instead of into the compactor. The field crew then took material that accumulated in the rolling containers as the sample.

For garbage samples, the field crew contained the collected sample to prevent crosscontamination with other samples, labeled it with relevant details about its source using a sample placard, and transported it to the local node for sorting. Diversion samples were sorted on-site, and materials were returned to the containers.

## **Collect Disposal Quantity Information**

While on-site at each business, the field crew recorded the volume of waste in each container or collection area. We used this information to calculate annual disposed waste tonnage for each business and extrapolated these results for each industry group. The procedure for measuring waste during the site visit is described below. The field crew recorded this information on paper forms for later entry into the centralized generator database.

- **Disposed Waste Volume Measurements:** The field crew recorded the length, width, and height to the nearest inch for all disposed waste at each site. The volume of the disposed waste at each site was the sum of all volumes for each waste container or collection area (if there was more than one), in cubic inches.
- **Disposed Waste Accumulation Time:** During initial recruitment screening calls, recruiters asked the responsible party at the site for information to determine waste accumulation time, including the business operating hours, the time the waste containers were last collected by the hauler (or regular collection schedule), and when trash is regularly taken outside to dumpsters. While on-site, the field crew verified this critical information.

## **Collect Curbside Diversion Quantity Information**

While on-site, the field crew collected information about the amount of materials collected in recycling and organics containers. We used this as well as other information to calculate annual recycling and diversion quantities for each business. The procedure for measuring materials during the site visit is described below. The field crew recorded this information on paper forms for later entry into the centralized recruitment database.

- **Diverted Material Volume Measurements:** The field crew recorded the length, width, and height to the nearest inch for all material in recycling and organics containers at each site. The volume of the diverted material at each site was the sum of all volumes for each container (if there was more than one container on-site), in cubic inches.
- **Diverted Material Accumulation Time:** During initial recruitment screening calls, recruiters asked the responsible party at the site for information to determine diverted material accumulation time, including the business operating hours, the time the containers were last collected by the hauler (or regular collection schedule), and when material is regularly taken to outside containers. While on-site, the field crew verified this critical information.

## **Collect Other Diversion Quantity Information**

The field crew confirmed additional diversion practices (such as back-hauling, selfhauling, source reduction, and reuse) data during the same visit where they sampled, sorted, and quantified the curbside diversion streams. The recruitment staff collected information about the site's other diversion practices that the field crew reviewed before they arrived at a site for the diversion assessment. At each site, the field crew met with key personnel to discuss other diversion practices and obtain any records or estimates necessary to quantify other diversion practices. The intent of these meetings was to verify quantity data and other information about diversion activities that the sampling and sorting of materials collected on site did not capture. The following scenarios illustrate some examples of quantifying other diversion:

- Scenario 1: A business back-hauls pallets to a central distribution facility for reuse. The field crew first asked the facility personnel if they could provide records regarding the number of pallets reused. If not, the field crew weighed the pallets on-site and correlated that information with the time elapsed since the last back-haul to estimate the annual quantity of pallets reused.
- Scenario 2: A business donates food to the local food bank. The field crew first asked the facility personnel if they could provide records regarding the quantity of food donated. If not, the field crew weighed the quantity of food set aside for donation and correlated that information with the time elapsed since the last donation to estimate the annual quantity of food donated.
- Scenario 3: A business bales cardboard and self-hauls the material to a local paper pulper. The field crew first asked the facility personnel if they could provide records regarding the number of bales sold. If not, the field crew weighed a bale, multiplied that weight by the number of bales on-site, and correlated that information with the time elapsed since the last haul to estimate the annual quantity of baled cardboard sold.

Other diversion quantity estimates were based on actual receipts or freight documents whenever possible.

During the site visit, the field crew also collected quantity information for any diversion not reported to the recruiters.

## **Sorting Procedures**

The sorting process for disposal and diversion samples was the same except that samples from each task were sorted in different locations: garbage samples at the local node and diversion samples on-site at each business or multi-family site. After selecting and measuring the volume of each sample, the field crew photographed the sample; sorted the sample into 82 material types; weighed the material in each category; and recorded the weights. The full list of material definitions is included in Appendix B: Material Definitions.

For a portion of the sites included in the Task 3 analysis, both the disposed material stream samples and the curbside diversion stream samples were sorted to a more detailed list. After the field crew sorted these samples into the 82 material types, they further sorted 20 of the material types into three contamination categories: clean, bin-contaminated, or source-contaminated. The definition for each contamination category

is included at the end of Appendix B: Material Definitions. The 20 materials included in the more detailed sort are listed in Table 26.

Paper	Metal
Uncoated Corrugated Cardboard	Tin/Steel Cans - CRV Bimetal Containers
Paper Bags	Tin/Steel Cans - Other
Newspaper	Aluminum Cans - CRV
White Ledger	Aluminum Cans - Non-CRV
Other Office Paper	Plastic
Other Miscellaneous Paper - Compostable	PETE Containers - CRV
Other Miscellaneous Paper - Other	PETE Containers - Non-CRV
Remainder/Composite Paper - Rigid Food and Beverage Cartons	HDPE Containers - CRV
Remainder/Composite Paper - Compostable	HDPE Containers - Non-CRV
Remainder/Composite Paper - Other	Miscellaneous Plastic Containers (#3-&7) - CRV
	Miscellaneous Plastic Containers (#3-&7) - Non-CRV

Table 26. Materials	Included in the	<b>Contamination Subsort</b>
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## **Changes in Methods from Original Design**

The project team made several adjustments to the original study design to address unforeseen circumstances that arose over the course of this study.

Many sites did not dispose of 200 pounds of garbage over a regular collection cycle, so the field crew had to make multiple visits to each site. We limited disposal sample weights to the amount of material collected in three visits for the Bay Area, Southern, and Central Valley regions, and two visits in the Coastal and Mountain regions. If after two or three visits (depending on the region) the field crew had not collected 200 pounds, the sample was considered complete regardless of the sample weight. The field crew typically had more sites to visit in the Bay Area, Southern, and Central Valley regions and consequently spent more consecutive days working in these regions during sampling periods. Sites in these regions were visited three times instead of two because the longer fieldwork period in these regions facilitated more visits.

Node facilities were recruited far in advance of fieldwork to allow time for the generator site recruitment. Over the intervening period between node recruitment and fieldwork, several of the originally recruited nodes either changed their minds about hosting or for other reasons were not able to host the field sorting. In those cases, the recruitment team selected a nearby facility to host the field crew, even though the generator recruitment was centered around the original node.

The project team intended to characterize all disposed samples from multi-family generators in a separate disposal facility-based study. However, after the first two seasons, the disposed multi-family samples were collected and sorted by the Task 2 field crew. This change was made to better accommodate the contamination subsorts necessary for the Task 3 analysis.

The calculation methods used to quantify and characterize the Other Diversion stream were modified to better accommodate the wide range of data collected in the field for this stream.

# **Study Results**

This section presents the findings for each industry group and for all industry groups combined (the overall commercial sector), and multi-family. Tables and figures in this section refer to the four material streams: Disposed, Curbside Recycle, Curbside Organics, and Other Diversion. Streams are defined at the <u>container</u> level and include all materials placed in the container, whether they "should" be there or not. For example, all material in a curbside recycling container will be processed at a MRF, regardless of whether that material is actually recoverable, and all materials in a disposal bin will be disposed, including recyclables. The Other Diversion stream includes materials recovered apart from the curbside streams.

Results include findings for the quantities of materials in each stream, the rates at which they are produced, and overall densities for each stream. Also presented are the composition of materials in each of the four streams, recoverability of materials in each stream, and overall recoverability of all materials generated (all streams combined).

The 82 material types have been aggregated into five recoverability groups: **Curbside Recyclable, Compost/Mulch, Other Recyclable, Recoverable Inerts,** and **Other Materials**. The recoverability groups are defined at the <u>material</u> level, i.e. materials in the **Curbside Recyclable** group are materials that most MRFs could recover and sell.

For the purposes of this study, we have defined the recoverability group as follows:

- **Curbside Recyclable:** materials that most Material Recovery Facilities (MRFs) collect, bale, and market.
- **Compost/Mulch:** materials that fall under AB 1826, California's Mandatory Commercial Organics Recycling law.
- **Other Recyclable:** materials that are readily recyclable but usually not accepted in a curbside recycling program. These materials are often collected at drop-off locations.
- **Recoverable Inerts:** recoverable inert construction and demolition debris.
- Other Materials: all materials that do not fit in one of the other groups.

Materials from any recoverability group can be found in any stream. **Curbside Recyclable** materials are frequently found in the Disposed stream (businesses frequently throw away cardboard and aluminum cans) and **Other Materials** are frequently found in the Curbside Recycle stream (businesses frequently put hardcover books and broken drinking glasses in their recycling bin). A detailed list of the materials included in each recoverability group can be found in Appendix B: Material Definitions.

Throughout the report, recoverability groups are referenced with **bold text** (e.g. **Recoverable Inerts)**, and individual material types are referenced with *italics* (*uncoated corrugated cardboard*, for example).

## Rate and Density Findings

Tables and figures in this section summarize the quantity information for each group and for the commercial sector overall. Quantities disposed, diverted, and generated have been normalized on a per employee basis (or on a per occupied unit basis for multi-family). Normalizing the quantities facilitates comparisons between the various industry groups.

When interpreting the results presented in the tables and figures in this section, it is important to consider the effect of rounding.

To keep tables and figures readable, estimated rates are rounded to two decimal points, and density is rounded to the nearest whole number. Due to this rounding, the data presented, when added together, may not exactly match the subtotals and totals shown.

It is important to recognize that the data presented in the tables were calculated using unrounded numbers. Therefore, using the rounded values shown in the tables in calculations will yield quantities that are different than those shown. Values of less than 0.005 are shown as 0.00.

Statewide, businesses disposed of approximately 1.13 tons per employee per year (TPEPY) and diverted another 0.64 TPEPY. In total, businesses across the state generated an estimated 1.77 TPEPY. Based on these findings, the commercial diversion rate was estimated to be 36 percent. Diversion was broadly defined to include any activity that avoids disposing of waste (including reuse, when it can be quantified). The majority of commercial diversion was in the Other Diversion stream, most frequently cardboard that was diverted via back-hauling or sales directly into the commodity market. The overall commercial sector TPEPY does not include the findings from multi-family properties.

Retail Trade – Food and Beverage Stores (Group 11) had the highest generation rate of all industry groups (6.64 TPEPY) and the greatest estimated diversion rate (82 percent). Both of those metrics are due to the large quantity of *uncoated corrugated cardboard* and *food* in the Other Diversion stream. Group 11 is mostly composed of grocery stores.

The Arts, Entertainment, and Recreation group (Group 1) and Durable Wholesale and Trucking (Group 2) had the next two highest generation rates (3.08 TPEPY and 2.99 TPEPY, respectively). Durable Wholesale and Trucking (Group 2) also had the next highest diversion rate (80 percent). The high generation rate and diversion rate for Group 2 were largely due to high Other Diversion rates for sites in this group. Group 2 businesses diverted large quantities of *uncoated corrugated cardboard* and scrap metal. The high generation rate for Group 1 was mostly due to the high Disposed TPEPY for this group (the highest in the study). The high Disposed TPEPY in Group 1 can be partly attributed to the fact both employees and large numbers of visitors and guests were generating material at these sites. Group 1 included live performance venues, parks, fairgrounds, bowling alleys, movie theaters, and stadiums. Group 2 was mostly composed of businesses warehousing and shipping durable consumer goods (items generally with a normal life expectancy of three years or more) such as motor vehicles, furniture, construction materials, machinery and equipment (including household-type appliances), sporting goods, toys, and hobby goods.

The Public Administration group (Group 9) had the second-lowest Disposed TPEPY (0.32 TPEPY) and the lowest generated TPEPY (0.39 TPEPY) of all groups. Group 9 included all public sector sites, such as local government buildings and police and fire stations, but it did not include schools (public or private). The diversion rate for Group 9 was 16 percent.

The Medical and Health group (Group 8) had the lowest diversion rate of the studied groups (9 percent). This was likely due to a combination of the types of materials generated (such as patient gowns, tubing, and gloves) that could not be recovered and privacy policies that reduced the recovery of paper.

Multi-family properties disposed of an estimated 0.74 tons per occupied unit per year (TPUPY) and generated an estimated 0.87 TPUPY. None of the multi-family units visited had materials in the Other Diversion stream. Multi-family estimates did not take into account any diversion (e.g., recycling of computer equipment, furniture, etc.) done by tenants of the multi-family complex independently of the buildings' management and custodial services. The estimated diversion rate for the multi-family group was 15 percent.

Table 27 presents TPEPY results by industry group and for the overall commercial sector, and multi-family. The TPEPY was calculated for each industry group as a weighted average of the TPEPY at large businesses and the TPEPY at small businesses in that group. The calculations are detailed in Appendix C: Description of Calculations.

Group Number and Name		Disposed	Curbside Recycle	Curbside Organics	Other Diversion	Generation	Diversion Rate
Ove	erall Commercial Sector	1.13	0.14	0.12	0.39	1.77	36%
1	Arts, Entertainment, & Recreation	2.56	0.17	0.03	0.33	3.08	17%
2	Durable Wholesale & Trucking	0.60	0.17	0.00	2.23	2.99	80%
3	Education	0.43	0.05	0.01	0.02	0.50	15%
4	Hotels & Lodging	1.72	0.22	0.01	0.18	2.14	20%
5	Manufacturing - Electronic Equipment	0.31	0.07	0.00	0.36	0.75	58%
6	Manufacturing - Food & Nondurable Wholesale	1.28	0.05	0.01	0.51	1.85	31%
7	Manufacturing - All Other	0.45	0.10	0.00	0.94	1.50	70%
8	Medical & Health	0.67	0.05	0.01	0.01	0.74	9%
9	Public Administration	0.32	0.04	0.00	0.02	0.39	16%
10	Restaurants	2.40	0.26	0.17	0.08	2.92	18%
11	Retail Trade - Food & Beverage Stores	1.21	0.15	0.13	5.15	6.64	82%
12	Retail Trade - All Other	2.14	0.10	0.00	0.17	2.41	11%
13	Services - Management, Administrative, Support, & Social	0.74	0.11	0.57	0.02	1.44	48%
14	Services - Professional, Technical, & Financial	1.86	0.32	0.08	0.04	2.31	19%
15	Services - Repair & Personal	0.94	0.15	0.24	0.18	1.50	38%
16	Not Elsewhere Classified	0.50	0.05	0.01	0.64	1.20	58%
17	Multifamily*	0.74	0.13	0.00		0.87	15%

Table 27. Generation Rate Summary by Weight, by Group (TPEPY)

\*Multifamily is reported in tons per unit per year

Using the data collected during the site visits, the project team also calculated the annual volume of material disposed and diverted through curbside programs at each generator. These annual volumes were then normalized on a per employee basis to estimate the Cubic Yards Per Employee Per Year (YPEPY). At many generator sites, the annual quantities of Other Diversion materials were based on records provided by the business instead of direct measurements of material in containers. For this reason, the YPEPY cannot be calculated for the Other Diversion stream.

Businesses across the state disposed of an estimated 16.4 YPEPY and diverted approximately 6.4 YPEPY through curbside programs. Retail Trade – All Other (Group 12) had the greatest Disposed YPEPY at 31.1 YPEPY, and Public Administration (Group 9) had the lowest, with slightly more than 5 YPEPY. Restaurants (Group 10) had the highest combined Disposed and curbside diversion, with 40.9 YPEPY.

Table 28 presents yards per employee per year results by industry group, for the overall commercial sector, and for multi-family generator sites. The YPEPY was calculated for each industry group as a weighted average of the YPEPY at large businesses and the YPEPY at small businesses in that group. The calculations are detailed in Appendix C: Description of Calculations.

		Cubic Yards per Employee per Year						
Gro	up Number and Name	Disposed	Curbside Recycle	Curbside Organics	Curbside Total			
Ove	rall Commercial Sector	16.36	4.72	1.72	22.81			
1	Arts, Entertainment, & Recreation	24.34	7.37	0.48	32.19			
2	Durable Wholesale & Trucking	12.29	2.60	0.00	14.89			
3	Education	6.83	2.48	0.16	9.47			
4	Hotels & Lodging	25.80	5.49	0.23	31.52			
5	Manufacturing - Electronic Equipment	7.06	2.89	0.00	9.95			
6	Manufacturing - Food & Nondurable Wholesale	16.19	1.83	0.14	18.16			
7	Manufacturing - All Other	10.49	3.16	0.00	13.64			
8	Medical & Health	12.04	3.08	0.12	15.23			
9	Public Administration	5.21	1.54	0.08	6.83			
10	Restaurants	30.01	9.99	0.91	40.91			
11	Retail Trade - Food & Beverage Stores	24.92	8.20	1.81	34.93			
12	Retail Trade - All Other	31.14	7.22	0.00	38.36			
13	Services - Management, Administrative, Support, & Social	13.11	3.10	9.42	25.63			
14	Services - Professional, Technical, & Financial	20.44	7.62	1.57	29.63			
15	Services - Repair & Personal	22.80	7.25	0.00	30.05			
16	Not Elsewhere Classified	10.38	2.38	0.17	12.92			
17	Multifamily*	15.50	5.09	0.04	20.63			

#### Table 28. Generation Rate Summary by Volume, by Group (YPEPY)

\*Multifamily is reported in cubic yards per unit per year

Table 29 provides density summaries for the Disposed, Curbside Recycle, and Curbside Organics streams, by industry group and for the overall commercial sector, and multi-family. The density was calculated based on the estimated annual volume and annual weight of materials at the study sites and excludes sites with compactors. The project team could not calculate densities for the Other Diversion stream because most Other Diversion stream samples did not have volumes associated with them. The density was calculated for each industry group as a weighted average of the density at large businesses and the density at small businesses in that group. Many industry groups (for example, Durable Wholesale & Trucking) did not have curbside compost at any of the sampled generator sites. For those groups, the curbside organics density is blank. The calculations are detailed in Appendix C: Description of Calculations.

		Pounds per Cubic Yard					
Gro	up Number and Name	Disposed	Curbside Recycle	Curbside Organics			
Ove	rall Commercial Sector	138	58	135			
1	Arts, Entertainment, & Recreation	153	47	108			
2	Durable Wholesale & Trucking	77	31				
3	Education	124	37	99			
4	Hotels & Lodging	120	65	258			
5	Manufacturing - Electronic Equipment	70	49				
6	Manufacturing - Food & Nondurable Wholesale	107	52	176			
7	Manufacturing - All Other	90	50				
8	Medical & Health	112	35	32			
9	Public Administration	113	59	118			
10	Restaurants	152	53	396			
11	Retail Trade - Food & Beverage Stores	103	40	118			
12	Retail Trade - All Other	146	27				
13	Services - Management, Administrative, Support, & Social	108	73	109			
14	Services - Professional, Technical, & Financial	180	90	82			
15	Services - Repair & Personal	81	41				
16	Not Elsewhere Classified	88	40	105			
17	Multifamily	95	51	195			

## Table 29. Density Summary, by Group

Different types of businesses generate different types of materials. A business' waste generation pattern, waste management practices, and the prevalence of that business type in California have an effect on the overall commercial sector waste stream. The following are highlights for several of the largest industry groups.

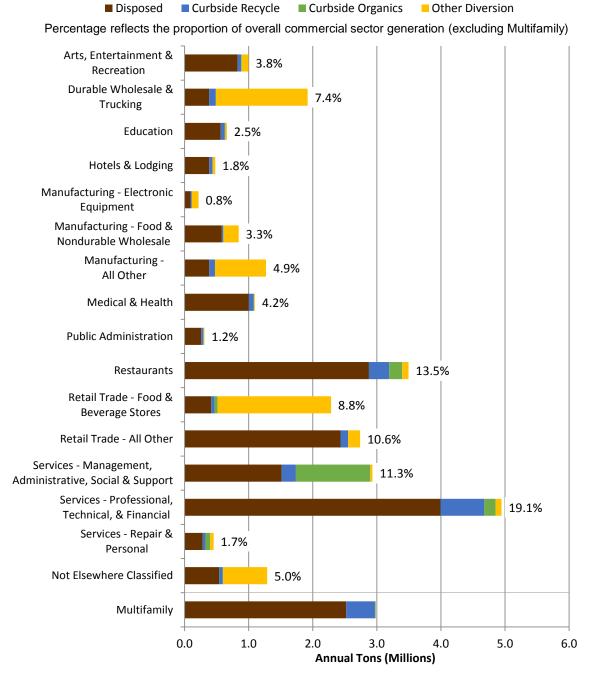
The Services – Professional, Technical, and Financial group accounted for approximately 19 percent of the overall commercial sector generation, making it the largest generator in the state. This group also employs the most people in California. Examples of business types in this group include banks, real estate agencies, architecture firms, and engineering companies. The majority of generation in this group is in the Disposed stream—materials that are disposed directly from the businesses without further significant recovery.

At nearly 14 percent of overall generation, Restaurants is the second-largest industry group in the study on the basis of tons generated. The Disposed waste stream is the largest part of Restaurants generation. Although more and more restaurants are participating in food diversion programs, food is the most prevalent divertible material type in the Restaurants' Disposed waste.

Services – Management, Administrative, Social, and Support and Retail Trade – All Other are the only other groups to generate more than 10 percent of the overall commercial sector waste. These two groups have very different total generation composition profiles. The Disposed stream accounted for nearly 90 percent of the Retail Trade – All Other generation, but that proportion was approximately 52 percent in the Services – Management, Administrative, Social and Support group.

Manufacturing – Electronic Equipment accounted for less than 1 percent of the overall commercial sector generation, making it the smallest group (by generation) in the state. Manufacturing – Electronic Equipment includes businesses manufacturing physical goods such as computers, radios, computing and memory chips, transformers, electrical appliances, and batteries, but it does not include software developers.

Figure 7 summarizes the annual generation by material stream for each industry group and the multi-family group. The percentages reflect that group's proportion of total commercial sector generation (nearly 26 million tons), excluding the multi-family group.



#### Figure 7. Annual Generation for Industry Groups, by Stream

Services – Professional, Technical, and Financial was the largest group in the state, by employment, and disposed of more material, by weight, than any other group. Among all the industry groups, Retail Trade – Food and Beverage Stores diverted the most material, by weight. Hotels and Lodging had the fewest employees among the industry groups studied. Table 30 ranks all industry groups according to statewide employment, tons disposed, tons diverted, and tons generated.

## Table 30. Rankings, by Group

	Statewide Employment*	% of Statewide Employment	Rank by Employment	Tons Disposed	% of Comm. Disposal	Rank by Tons Disposed	Tons Diverted	% of Comm. Diversion	Rank by Tons Diverted	Tons Generated	% of Comm. Generation	Rank by Tons Generated	Diversion Rate
Arts, Entertainment, & Recreation	324,080	2%	13	829,661	5%	6	168,036	2%	11	997,697	4%	10	17%
Durable Wholesale & Trucking	641,600	4%	10	381,767	2%	13	1,538,803	16%	2	1,920,570	7%	6	80%
Education	1,317,936	9%	4	562,442	3%	8	97,926	1%	13	660,368	3%	12	15%
Hotels & Lodging	222,871	2%	16	384,327	2%	11	93,712	1%	14	478,039	2%	13	20%
Manufacturing - Electronic Equipment	290,224	2%	15	91,265	1%	16	125,666	1%	12	216,931	1%	16	58%
Manufacturing - Food & Nondurable Wholesale	456,830	3%	11	582,486	4%	7	261,646	3%	9	844,131	3%	11	31%
Manufacturing - All Other	846,906	6%	8	384,292	2%	12	885,586	9%	5	1,269,878	5%	8	70%
Medical & Health	1,491,950	10%	3	1,003,316	6%	5	93,629	1%	15	1,096,945	4%	9	9%
Public Administration	802,458	5%	9	259,137	2%	15	50,354	1%	16	309,491	1%	15	16%
Restaurants	1,197,110	8%	5	2,876,653	17%	2	617,826	7%	7	3,494,479	13%	2	18%
Retail Trade - Food & Beverage Stores	344,256	2%	12	417,791	3%	10	1,868,403	20%	1	2,286,193	9%	5	82%
Retail Trade - All Other	1,137,123	8%	6	2,433,989	15%	3	306,012	3%	8	2,740,001	11%	4	11%
Services - Management, Administrative, Support, & Social	2,034,556	14%	2	1,514,667	9%	4	1,417,462	15%	3	2,932,129	11%	3	48%
Services - Professional, Technical, & Financial	2,141,914	15%	1	3,994,643	24%	1	949,869	10%	4	4,944,512	19%	1	19%
Services - Repair & Personal	300,627	2%	14	281,371	2%	14	170,866	2%	10	452,237	2%	14	38%
Not Elsewhere Classified	1,077,373	7%	7	538,858	3%	9	750,291	8%	6	1,289,149	5%	7	58%
Overall Commercial Sector	14,627,814	100%		16,536,664	100%		9,396,087	100%		25,932,751	100%		36%

\*Employment based on 2013 data provided by CalRecycle

## Notes for the Composition and Quantity Findings

This section of the report presents the composition and quantity data for the overall commercial sector and each of the industry groups separately, and multi-family. Overall findings for each group are presented in five ways:

- A table summarizing the key findings and metrics for the industry group, including disposed TPEPY, diverted TPEPY, disposed tons, diverted tons, diversion rate, and the three most prevalent divertible materials (by weight) in the disposed stream.
- 2. A bar chart summarizing the quantity and proportion of material generated by each material stream.
- 3. A bar chart that breaks down the composition of materials in each stream, according to potential recoverability.
- 4. A bar chart summarizing how much of all materials generated fall into each recoverability group. This includes all streams combined—both materials currently diverted and divertible materials placed in the Disposed stream.
- 5. A table detailing the quantity and composition for each stream. The detailed table aggregates the 82 material types used for sorting into 68 material types for reporting. Appendix B: Material Definitions includes a summary of how materials are aggregated from the 82 types down to 68 types. Appendix E: Detailed Composition Tables shows data for all streams according to the 82 detailed types, including error ranges. These tables also include data for California Redemption Value (CRV) materials.

Note: Estimates of the amount of contamination in recycling and organics bins are included. For this study, contamination in a bin consisted of materials not generally accepted in curbside recycling or organics programs, as listed in Table 95 of Appendix B: Material Definitions. Materials accepted in local programs may differ from this list.

## Rounding

When interpreting the results presented in the tables and figures in this report, it is important to consider the effect of rounding.

To keep the waste composition tables and figures readable, estimated tonnages are rounded to the nearest ton, and estimated percentages are rounded to the nearest tenth of a percent. Due to this rounding, the tonnages presented in the report, when added together, may not exactly match the subtotals and totals shown. Similarly, the percentages, when added together, may not exactly match the subtotals or totals shown. Percentages less than 0.05 percent are shown as 0.0 percent.

It is important to recognize that the quantities presented in the tables were calculated using unrounded percentages. Therefore, using the rounded percentages shown in the tables to calculate quantities will yield quantities that are different than those shown in the report. For example, the rounded percentage for Disposed *food* in Table 32 is shown as 24.4 percent, but the unrounded number used in calculations was 24.4048519294363 percent. If the rounded percentage for Disposed *food* in Table 32 were used to calculate the tonnage, it would yield the following: 24.4 percent x 16,536,664 (the rounded Disposal tonnage) = 4,034,946 tons. However, if the more precise percentage for this material is used, it yields the following: 24.4048519294363 percent multiplied by 16,536,663.65 (the unrounded tonnage) = 4,035,748.27688004 tons, or 4,035,748 tons when rounded to the nearest ton. Using unrounded instead of rounded numbers in the calculations results in a difference of more than 800 tons. The more precise tonnage of 4,035,748 is shown in the table.

## Findings for the Overall Commercial Sector

This section summarizes the results for samples from all business generator sites. The results exclude data collected at the multi-family sites. Statewide, the commercial sector disposes of more than 16.5 million tons and diverts nearly 9.4 million tons. Based on these findings, the commercial diversion rate was estimated to be 36 percent. Diversion was broadly defined to include any activity that avoids disposing of waste (including reuse, when it can be quantified). The majority of commercial diversion was in the Other Diversion stream, most frequently cardboard that was diverted via back-hauling or sales directly into the commodity market. The overall commercial sector TPEPY does not include the findings from multi-family properties. Total generation was approximately 1.77 TPEPY. *Food* was the most prevalent divertible material type in the overall commercial sector Disposed stream, accounting for 24 percent of disposal. Table 31 summarizes the key findings for the overall commercial sector.

Overall Commercial Sector									
Key Findings and Metrics									
Disposed	Diverted	Disposed	Diverted	Diversion					
TPEPY	TPEPY	Tons	Tons	Rate					
1.13	0.64	16,536,664	9,396,087	36%					
Top Three Div	version Opportu	inities in Dispo	sed Stream						
<ul> <li>Food (24)</li> </ul>	4%, 4,035,748 to	ons)							
<ul> <li>Remainder/Composite Paper - Compostable (10%, 1,673,592 tons)</li> </ul>									
Clean Page	allets & Crates (4	4%, 735,005 ton	s)						

Figure 8 presents the annual tons for each stream in the overall commercial sector. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins, and materials diverted through other means such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination— materials not typically acceptable in those streams, such as food in recycling bins or glass in organics bins. As shown, almost two-thirds of total generation at businesses went to the Disposed stream, and the remaining one-third was in the diversion streams.

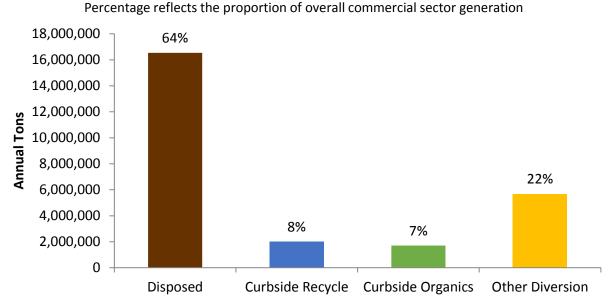
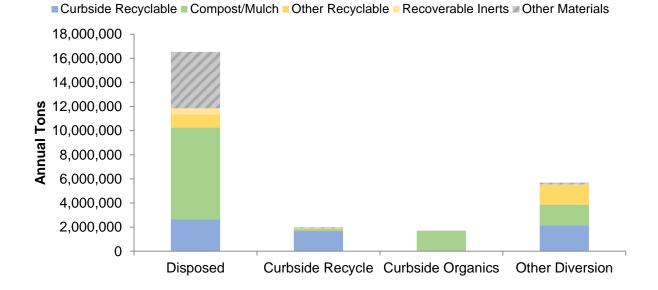




Figure 8. Annual Tons by Waste Stream: Overall Commercial Sector

Each material stream was composed of many different material types, and each of those material types was assigned to one of the five recoverability groups. Table 95 in Appendix B: Material Definitions details the assignment of material types to recoverability groups. Figure 9 breaks down the potential recoverability (by recoverability group) for each stream in the overall commercial sector. As shown, **Compost/Mulch** accounted for almost half of the Disposed stream. The Other Diversion stream was nearly evenly split between **Curbside Recyclable**, **Compost/Mulch**, and **Other Recyclable** materials. Figure 9 illustrates that recyclable materials were found in the Disposed stream and that materials not usually recovered ("**Other Materials**") were indeed recovered by some businesses. In fact, materials of all recoverability types were found in all streams.

The overall commercial sector Curbside Recycle contamination rate was 16 percent, and the Curbside Organics contamination rate was 2 percent.



#### Figure 9. Recoverability by Stream: Overall Commercial Sector

Figure 10 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 10 illustrates, approximately 43 percent of total generation in the overall commercial sector was material in the **Compost/Mulch** recoverability group, and approximately 25 percent was **Curbside Recyclable**. When combined, divertible materials accounted for roughly 81 percent of the overall commercial sector generation. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.

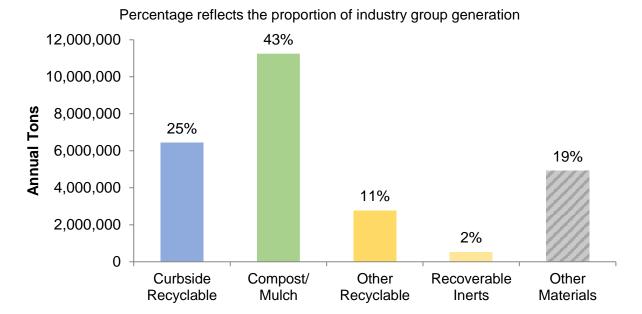


Figure 10. Recoverability of Materials Generated in the Overall Commercial Sector

Table 32 presents detailed overall commercial sector composition results for each stream as well as for the total generation.

#### Table 32. Composition Summary: Overall Commercial Sector

Material	Dis Est. %	posed Est. Tons	Curbsid Est. %	le Recycle Est. Tons	Curbside Est. %	e Organics Est. Tons	Other I Est. %	Diversion Est. Tons	Total G Est. %	eneration Est. Tons
Paper	26.7%	4,415,748	78.6%	1,573,662	1.1%	18,057	36.1%	2,052,884	31.1%	8,060,351
Uncoated Corrugated Cardboard	3.0%	494,244	51.2%	1,024,317	0.2%	3,198 39	31.6%	1,800,463	12.8%	3,322,222
Paper Bags Newspaper	0.4% 2.0%	62,235 337,096	0.6% 1.9%	12,318 38,121	0.0% 0.1%	39 857	0.0% 0.0%	296 2,096	0.3% 1.5%	74,889 378,170
White Ledger Paper	1.6%	268,245	6.4%	127,555	0.0%	48	0.6%	34,770	1.7%	430,618
Other Office Paper	1.8%	293,207	4.8%	95,814	0.0%	414	0.3%	16,999	1.6%	406,435
Magazines and Catalogs	0.7%	115,761	3.7%	74,131	0.0%	0	0.0%	1,966	0.7%	191,859
Phone Books and Directories	0.0%	5,777	0.0%	957 56 260	0.0%	0	0.0%	140	0.0% 0.6%	6,874
Other Miscellaneous Paper - Compostable Other Miscellaneous Paper - Other	0.5% 3.0%	77,929 493,669	2.8% 5.3%	56,269 105,709	0.5% 0.0%	7,988 622	0.1% 3.1%	3,226 178,968	0.6%	145,411 778,968
Remainder/Composite Paper - Compostable	10.1%	1,673,592	0.8%	16,981	0.2%	3,978	0.2%	12,989	6.6%	1,707,540
Remainder/Composite Paper - Other	3.6%	593,991	1.1%	21,490	0.1%	914	0.0%	970	2.4%	617,365
Glass	2.0%	329,185	5.2%	104,797	0.8%	13,898	1.4%	80,370	2.0%	528,250
Clear Glass Bottles and Containers	0.9%	143,197	2.5%	50,649	0.3%	5,051	0.4%	21,140	0.8%	220,037
Green Glass Bottles and Containers	0.4%	61,533	1.8%	36,710	0.4%	7,325	0.3%	16,192	0.5%	121,759
Brown Glass Bottles and Containers Other Glass Colored Bottles and Containers	0.2% 0.0%	40,146 1,091	0.8% 0.0%	15,677 305	0.1% 0.0%	1,522 0	0.8% 0.0%	43,032 0	0.4% 0.0%	100,377 1,395
Flat Glass	0.2%	32,008	0.0%	6	0.0%	0	0.0%	Ő	0.1%	32,014
Remainder/Composite Glass	0.3%	51,210	0.1%	1,450	0.0%	0	0.0%	7	0.2%	52,667
Metal	3.6%	601,182	1.6%	32,370	0.1%	1,117	29.6%	1,685,302	8.9%	2,319,971
Tin/Steel Cans	0.5%	81,495	0.8%	16,866	0.0%	639	0.1%	3,263	0.4%	102,263
Major Appliances Used Oil Filters	0.0% 0.0%	5,239 1,742	0.0% 0.0%	0	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.0% 0.0%	5,239 1,742
Other Ferrous	0.0%	153,526	0.0%	5,409	0.0%	55	22.9%	1,302,028	5.6%	1,461,018
Aluminum Cans	0.2%	27,497	0.3%	5,381	0.0%	84	0.1%	7,432	0.2%	40,394
Other Non-Ferrous	0.7%	121,719	0.2%	3,278	0.0%	334	4.4%	251,361	1.5%	376,693
Remainder/Composite Metal	1.3%	209,964	0.1%	1,436	0.0%	4	2.1%	121,218	1.3%	332,622
Electronics	0.8%	131,818	0.1%	2,401	0.0%	13	1.2%	68,519	0.8%	202,751
Brown Goods Computer-related Electronics	0.2% 0.0%	32,602 4,772	0.0% 0.1%	0 1,853	0.0% 0.0%	0 0	0.0% 1.1%	1,689 63,018	0.1% 0.3%	34,291 69,644
Other Small Consumer Electronics	0.0%	3,877	0.1%	548	0.0%	13	0.0%	137	0.3%	4,575
Video Display Devices	0.5%	90,567	0.0%	0	0.0%	0	0.1%	3,675	0.4%	94,241
Plastic	12.9%	2,131,488	8.7%	173,986	0.2%	3,795	0.8%	45,584	9.1%	2,354,854
PETE Plastic Containers	0.5%	90,682	1.5%	29,391	0.0%	597	0.2%	13,660	0.5%	134,330
HDPE Plastic Containers Miscellaneous Plastic Containers	0.5% 0.3%	76,674	1.0% 1.4%	19,276 27,073	0.0% 0.0%	78 298	0.0% 0.1%	1,764	0.4% 0.3%	97,792
Plastic Trash Bags	2.4%	49,683 389,709	0.3%	5,514	0.0%	298 188	0.1%	3,871 935	1.5%	80,925 396,345
Plastic Grocery and Other Merchandise Bags	0.2%	32,264	0.4%	7,256	0.0%	42	0.0%	8	0.2%	39,570
Non-Bag Commercial and Industrial Packaging Film	0.6%	107,244	0.9%	18,306	0.0%	138	0.1%	7,512	0.5%	133,200
Film Products	0.0%	2,545	0.1%	1,927	0.0%	25	0.1%	4,303	0.0%	8,800
Other Film - Other	2.5%	407,559	0.8%	15,406	0.1%	1,983	0.0%	1,741	1.6%	426,689
Durable Plastic Items - #2 and #5 Bulky Rigids	0.2% 1.1%	34,842	0.8% 0.4%	16,595	0.0% 0.0%	0	0.0% 0.1%	2,179	0.2%	53,617
Durable Plastic Items - Other Remainder/Composite Plastic	4.6%	175,506 764,779	0.4%	8,823 24,419	0.0%	57 388	0.1%	3,332 6,279	0.7% 3.1%	187,719 795,865
Other Organic	38.8%	6,420,296	3.7%	73,494	97.8%	1,666,288	25.6%	1,459,333	37.1%	9,619,411
Food	24.4%	4,035,748	1.7%	34,272	15.6%	265,021	16.3%	928,965	20.3%	5,264,007
Leaves and Grass	3.2%	524,559	0.0%	416	80.6%	1,372,233	2.6%	146,752	7.9%	2,043,959
Prunings and Trimmings	1.7%	274,586	0.3%	6,269	1.7%	28,412	6.3%	356,802	2.6%	666,069
Branches and Stumps Manures	0.4% 0.1%	64,366 14,884	0.9% 0.0%	17,723 0	0.0% 0.0%	0 0	0.3% 0.0%	19,260 0	0.4% 0.1%	101,349 14,884
Textiles	2.3%	374,010	0.0%	3,990	0.0%	622	0.0%	7,536	1.5%	386,157
Carpet	0.8%	134,528	0.3%	6,989	0.0%	0	0.0%	17	0.5%	141,534
Remainder/Composite Organic	6.0%	997,614	0.2%	3,835	0.0%	0	0.0%	2	3.9%	1,001,452
Inerts and Other	13.3%	2,198,596	1.7%	34,948	0.0%	310	5.1%	291,642	9.7%	2,525,497
Concrete	0.7%	122,482	0.0%	0	0.0%	0	0.0%	718	0.5%	123,200
Asphalt Paving Asphalt Roofing	0.3% 0.4%	48,429 61,718	0.0% 0.0%	0 50	0.0% 0.0%	0 0	0.0% 0.0%	0	0.2% 0.2%	48,429 61,768
Clean Dimensional Lumber	0.4%	113,949	0.0%	50 10,668	0.0%	0	0.0%	2,830	0.2%	127,447
Clean Engineered Wood	0.6%	107,458	0.0%	0	0.0%	0	0.0%	2,000	0.3%	107,458
Clean Pallets & Crates	4.4%	735,005	0.9%	18,139	0.0%	0	4.4%	249,857	3.9%	1,003,001
Other Wood Waste	2.3%	387,705	0.0%	176	0.0%	0	0.0%	434	1.5%	388,315
Gypsum Board	0.6%	99,223	0.0%	537	0.0%	0	0.0%	642	0.4%	100,403
Rock, Soil and Fines Remainder/Composite Inerts and Other	1.0% 2.1%	170,747 351,881	0.0% 0.3%	0 5,378	0.0% 0.0%	310 0	0.6% 0.1%	32,886 4,275	0.8% 1.4%	203,943 361,534
Household Hazardous Waste	0.2%	34,884	0.3%	734	0.0%	14	0.1%	2,564	0.1%	38,196
Paint	0.1%	9,094	0.0%	0	0.0%	0	0.0%	_,001	0.0%	9,094
Vehicle and Equipment Fluids	0.0%	6,707	0.0%	0	0.0%	0	0.0%	0	0.0%	6,707
Used Oil	0.0%	343	0.0%	404	0.0%	0	0.0%	0	0.0%	747
Batteries	0.0%	2,268	0.0%	266	0.0%	14	0.0%	2,530	0.0%	5,077
Remainder/Composite Household Hazardous Special Waste	0.1% <b>1.3%</b>	16,473 <b>207,163</b>	0.0% <b>0.1%</b>	64 1,799	0.0% <b>0.0%</b>	0 0	0.0% <b>0.1%</b>	35 <b>4,665</b>	0.1% <b>0.8%</b>	16,571 <b>213,628</b>
Ash	0.2%	30,397	0.1%	1,799	0.0%	0	0.1%	<b>4,000</b> 0	0.8%	30,397
Treated Medical Waste	0.2 %	5,849	0.0%	347	0.0%	0	0.0%	0	0.1%	6,195
Bulky Items	0.9%	153,016	0.0%	715	0.0%	0	0.1%	4,665	0.6%	158,396
Tires	0.0%	3,884	0.0%	40	0.0%	0	0.0%	0	0.0%	3,924
Remainder/Composite Special Waste	0.1%	14,017	0.0%	698	0.0%	0	0.0%	0	0.1%	14,715
Mixed Residue	0.4%	66,303	0.2%	3,481	0.0%	0	0.0%	60	0.3%	69,843
Totals	100.0%	16,536,664	100.0%	2,001,671	100.0%	1,703,492	100.0%	5,690,924	100.0%	25,932,751
Streams Sampled		340		338		41		720		,939
TPEPY	, 1 7.	.13	C	).14	0	).12	0	).39	1 1	1.77

Percentages for material types may not total 100% due to rounding. Tables detailing the composition for all 82 materials can be found in Appendix E: Detailed Composition Tables

## Findings for Arts, Entertainment, & Recreation

Table 33 presents key findings for the Arts, Entertainment, & Recreation industry group (Group 1). Statewide, Group 1 disposed of nearly 830,000 tons and diverted more than 168,000 tons. Total generation was approximately 3.08 TPEPY. Group 1 had the second-highest generation rate and the highest Disposed stream TPEPY among all industry groups. The high Disposed TPEPY in Group 1 can be partly attributed to the fact that it was not just employees generating material at these businesses—large numbers of visitors and guests were also generating material at these sites. Group 1 included live performance venues, parks, fairgrounds, bowling alleys, movie theaters, and stadiums. *Food* was the most prevalent divertible material type in the Group 1 Disposed stream, accounting for 34 percent of disposal. Group 1 had the second densest Disposed stream of any industry group, 153 pounds per cubic yard (slightly higher than for restaurants). This likely reflects the high proportion of food in the Group 1 Disposed stream.

Arts, Entertainment, & Recreation								
Key Findings and Metrics								
Disposed	Diverted	Disposed	Diverted	Diversion				
TPEPY	TPEPY TPEPY Tons Tons Rate							
2.56	2.56 0.52 829,661 168,036 17%							
Top Three Diversion Opportunities in Disposed Stream								
<ul> <li>Food (34%, 278,639 tons)</li> </ul>								
<ul> <li>Remainder/Composite Paper - Compostable (9%, 78,350 tons)</li> </ul>								
<ul> <li>Leaves and Grass (6%, 48,015 tons)</li> </ul>								

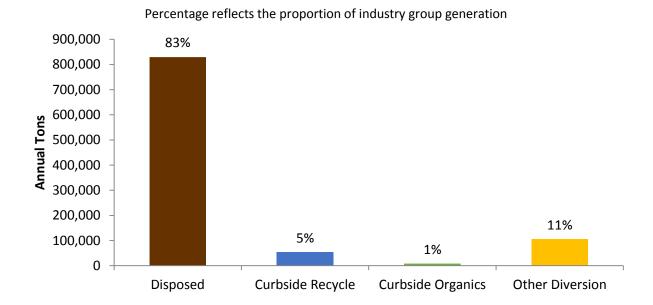
Table 33. Key Findings and Metrics: Arts, Ent	ntertainment, & Recreation
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In addition to normalizing generation on a per employee basis (TPEPY), for this group the project team normalized generation by the number of annual visitors at each generator site. As shown in Table 34, Group 1 businesses generated an estimated 0.53 tons per thousand visitors per year. The number of sites used in this calculation is noted in Table 98 in Appendix C: Description of Calculations.

# Table 34. Generation Rate Summary by Weight: Arts, Entertainment, & Recreation (tons per 1,000 visitors per year)

Tons per 1,000 Visitors per Year	Disposed	Curbside Recycle	Curbside Organics	Other Diversion	Generation
Arts, Entertainment, & Recreation	0.43	0.03	0.01	0.06	0.53

Figure 11 presents the annual tons for each stream in Group 1. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins, and materials diverted through other means such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination—materials not typically acceptable in those streams such as food in recycling bins or glass in organics bins. As shown, approximately 83 percent of generation at Group 1 businesses went to the Disposed stream.



#### Figure 11. Annual Tons by Waste Stream: Arts, Entertainment, & Recreation

Each stream was composed of many different material types, and each of those material types was assigned to one of the five recoverability groups. Table 95 in Appendix B: Material Definitions details the assignment of material types to recoverability groups. Figure 12 breaks down the potential recoverability (by recoverability group) for each stream in Group 1. As shown, more than three-quarters of the Disposed stream was divertible, mostly **Compost/Mulch** materials.

The Group 1 Curbside Recycle contamination rate was 11 percent. No contamination was observed in the Curbside Organics stream.

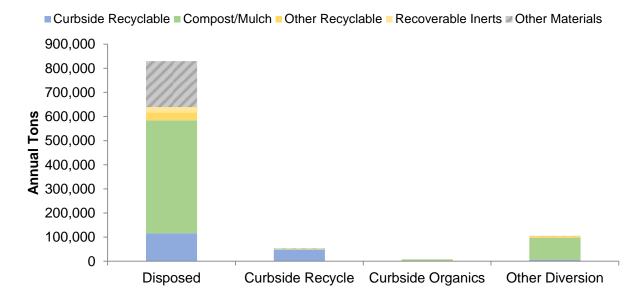
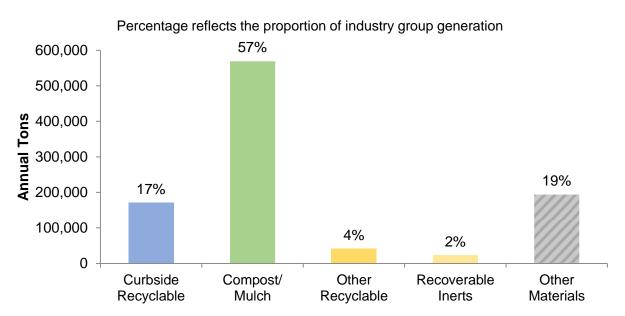




Figure 13 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 13 illustrates, approximately 57 percent of total generation in Group 1 was material in the **Compost/Mulch** recoverability group. **Other Materials** and **Curbside Recyclable** accounted for 19 percent and 17 percent of total generation, respectively. When combined, divertible materials accounted for roughly 81 percent of the Group 1 generation. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.



# Figure 13. Recoverability of Materials Generated in the Arts, Entertainment, & Recreation Sector

Table 35 presents detailed composition results for each stream in Group 1, as well as for the total group generation.

## Table 35. Composition Summary: Arts, Entertainment, & Recreation

Material	Disp Est. %	osed Est. Tons	Curbsid Est. %	le Recycle Est. Tons	Est. %	e Organics Est. Tons	Other I Est. %	Diversion Est. Tons	Total Go Est. %	eneration Est. Tons
Paper	20.9%	173,415	67.1%	36,146	0.0%	0	1.2%	1,286	21.1%	210,847
Uncoated Corrugated Cardboard	2.0%	16,236	52.4%	28,249	0.0%	0	0.4%	449	4.5%	44,934
Paper Bags	0.3%	2,725	0.2%	105	0.0%	0	0.0%	0	0.3%	2,830
Newspaper	1.6%	13,325	0.7%	351	0.0%	0	0.0%	0	1.4%	13,676
White Ledger Paper Other Office Paper	0.6% 0.8%	5,186 6,872	2.1% 2.6%	1,120 1,403	0.0% 0.0%	0	0.0% 0.0%	0 0	0.6% 0.8%	6,306 8,275
Magazines and Catalogs	0.5%	4,205	2.0%	1,403	0.0%	0	0.0%	0	0.5%	5,352
Phone Books and Directories	0.0%	129	0.0%	0	0.0%	Ő	0.0%	Ő	0.0%	129
Other Miscellaneous Paper - Compostable	0.4%	3,346	1.0%	514	0.0%	0	0.7%	750	0.5%	4,610
Other Miscellaneous Paper - Other	2.8%	23,273	2.6%	1,410	0.0%	0	0.0%	0	2.5%	24,682
Remainder/Composite Paper - Compostable	9.4%	78,350	3.1%	1,680	0.0%	0	0.0%	0	8.0%	80,030
Remainder/Composite Paper - Other	2.4%	19,766	0.3%	168	0.0%	0	0.1%	87	2.0%	20,021
Glass Clear Glass Bottles and Containers	<b>3.1%</b> 1.2%	<b>26,100</b> 10,094	<b>19.2%</b> 5.4%	<b>10,334</b> 2,920	<b>0.0%</b> 0.0%	<b>0</b> 0	<b>5.0%</b> 0.2%	<b>5,262</b> 264	<b>4.2%</b> 1.3%	<b>41,696</b> 13,278
Green Glass Bottles and Containers	1.2%	7,982	10.0%	5,392	0.0%	0	0.2%	34	1.3%	13,407
Brown Glass Bottles and Containers	0.9%	7,257	3.8%	2,022	0.0%	Ő	4.7%	4,965	1.4%	14,244
Other Glass Colored Bottles and Containers	0.0%	63	0.0%	0	0.0%	0	0.0%	0	0.0%	63
Flat Glass	0.0%	24	0.0%	0	0.0%	0	0.0%	0	0.0%	24
Remainder/Composite Glass	0.1%	681	0.0%	0	0.0%	0	0.0%	0	0.1%	681
Metal	1.8%	15,055	2.5%	1,366	0.0%	0	5.9%	6,211	2.3%	22,632
Tin/Steel Cans	0.7%	5,424	1.8%	993	0.0%	0	0.2%	243	0.7%	6,660
Major Appliances Used Oil Filters	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.0% 0.0%	0
Other Ferrous	0.0%	1,937	0.0%	0	0.0%	0	0.0% 5.2%	5,538	0.0%	7,475
Aluminum Cans	0.2%	2,405	0.6%	348	0.0%	0	0.2%	171	0.7%	2,924
Other Non-Ferrous	0.2%	1,634	0.0%	26	0.0%	Ő	0.2%	258	0.2%	1,918
Remainder/Composite Metal	0.4%	3,655	0.0%	0	0.0%	0	0.0%	0	0.4%	3,655
Electronics	0.0%	202	0.0%	0	0.0%	0	1.6%	1,660	0.2%	1,862
Brown Goods	0.0%	171	0.0%	0	0.0%	0	0.0%	0	0.0%	171
Computer-related Electronics	0.0%	31	0.0%	0	0.0%	0	1.4%	1,514	0.2%	1,545
Other Small Consumer Electronics Video Display Devices	0.0% 0.0%	0	0.0% 0.0%	0 0	0.0% 0.0%	0	0.0%	0	0.0% 0.0%	0
Plastic	13.8%	114,388	6.7%	3,621	0.0%	0	0.1% <b>1.6%</b>	146 <b>1,740</b>	0.0% 12.0%	146 <b>119,748</b>
PETE Plastic Containers	0.8%	6,361	2.4%	1,313	0.0%	0	0.5%	492	0.8%	8,167
HDPE Plastic Containers	0.3%	2,280	1.1%	592	0.0%	0	0.0%	40	0.3%	2,913
Miscellaneous Plastic Containers	0.3%	2,582	0.7%	351	0.0%	0	0.2%	201	0.3%	3,133
Plastic Trash Bags	2.5%	21,065	0.9%	465	0.0%	0	0.0%	0	2.2%	21,531
Plastic Grocery and Other Merchandise Bags	0.2%	1,419	0.2%	109	0.0%	0	0.0%	0	0.2%	1,529
Non-Bag Commercial and Industrial Packaging Film	0.4%	3,466	0.0%	26	0.0%	0	0.0%	0	0.4%	3,492
Film Products	0.0%	125	0.2%	99	0.0%	0	0.0% 0.9%	13	0.0%	237
Other Film - Other Durable Plastic Items - #2 and #5 Bulky Rigids	2.1% 0.2%	17,789 1,796	0.9% 0.1%	484 35	0.0% 0.0%	0	0.9%	927 0	1.9% 0.2%	19,200 1,831
Durable Plastic Items - Other	1.0%	8,023	0.0%	6	0.0%	0	0.0%	0	0.2%	8,030
Remainder/Composite Plastic	6.0%	49,479	0.3%	140	0.0%	Ő	0.1%	67	5.0%	49,686
Other Organic	52.9%	439,228	2.8%	1,508	100.0%	8,439	84.2%	89,053	53.9%	538,227
Food	33.6%	278,639	1.8%	951	0.0%	0	23.6%	24,962	30.5%	304,552
Leaves and Grass	5.8%	48,015	0.0%	0	0.0%	0	22.6%	23,930	7.2%	71,945
Prunings and Trimmings	2.6%	21,669	0.1%	40	100.0%	8,439	19.9%	21,061	5.1%	51,209
Branches and Stumps Manures	3.3% 0.1%	27,490 526	0.0% 0.0%	0 0	0.0% 0.0%	0 0	18.1% 0.0%	19,100 0	4.7% 0.1%	46,590 526
Textiles	1.6%	13,096	0.0%	289	0.0%	0	0.0%	0	1.3%	13,385
Carpet	1.0%	8,546	0.0%	0	0.0%	Ő	0.0%	ů 0	0.9%	8,546
Remainder/Composite Organic	5.0%	41,247	0.4%	228	0.0%	0	0.0%	0	4.2%	41,474
Inerts and Other	5.6%	46,731	0.3%	176	0.0%	0	0.0%	0	4.7%	46,907
Concrete	1.7%	14,400	0.0%	0	0.0%	0	0.0%	0	1.4%	14,400
Asphalt Paving	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Asphalt Roofing Clean Dimensional Lumber	0.0% 0.6%	218 5,150	0.0% 0.0%	0 0	0.0% 0.0%	0	0.0% 0.0%	0	0.0% 0.5%	218 5 150
Clean Dimensional Lumber Clean Engineered Wood	0.6%	5,150 2,457	0.0%	0	0.0%	0	0.0%	0	0.5%	5,150 2,457
Clean Pallets & Crates	0.3%	2,457	0.0%	0	0.0%	0	0.0%	0	0.2%	2,457
Other Wood Waste	0.5%	3,886	0.3%	176	0.0%	0	0.0%	0	0.2%	4,062
Gypsum Board	0.0%	141	0.0%	0	0.0%	0	0.0%	0	0.0%	141
Rock, Soil and Fines	0.9%	7,844	0.0%	0	0.0%	0	0.0%	0	0.8%	7,844
Remainder/Composite Inerts and Other	1.3%	10,476	0.0%	0	0.0%	0	0.0%	0	1.0%	10,476
Household Hazardous Waste	0.1%	682	0.0%	0	0.0%	0	0.5%	520	0.1%	1,201
Paint Vahiele and Equipment Eluide	0.0%	158	0.0%	0	0.0%	0	0.0%	0	0.0%	158
Vehicle and Equipment Fluids Used Oil	0.0% 0.0%	0 57	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.0% 0.0%	0 57
Batteries	0.0%	379	0.0%	0	0.0%	0	0.0%	520	0.0%	899
Remainder/Composite Household Hazardous	0.0%	88	0.0%	0	0.0%	0	0.0%	0	0.0%	88
Special Waste	1.4%	12,017	1.3%	715	0.0%	Ō	0.0%	Ō	1.3%	12,732
Ash	0.8%	6,928	0.0%	0	0.0%	0	0.0%	0	0.7%	6,928
Treated Medical Waste	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Bulky Items	0.6%	5,034	1.3%	715	0.0%	0	0.0%	0	0.6%	5,749
Tires Remainder/Composite Special Waste	0.0%	55	0.0%	0	0.0%	0	0.0%	0	0.0%	55
Mixed Residue	0.0%	0	0.0%	0 0	0.0%	0	0.0%	0	0.0%	0
ואוואבת עהצותתה	0.2%	1,844	0.0%	U	0.0%	0	0.0%	0	0.2%	1,844
Totals	100.0%	829,661	100.0%	53,865	100.0%	8,439	100.0%	105,732	100.0%	997,697
Streams Sampled	5	54		17		1		31	1	03
TPEPY	2.	.56	0	).17	C	.03	0	).33	3	.08

Percentages for material types may not total 100% due to rounding.

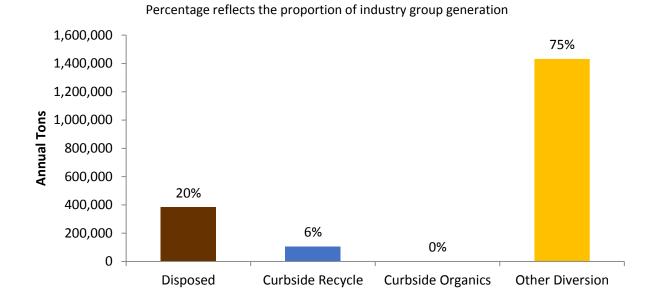
# Findings for Durable Wholesale & Trucking

Table 36 presents key findings for the Durable Wholesale & Trucking industry group (Group 2). Group 2 was mostly composed of businesses warehousing and shipping durable consumer goods (items generally with a normal life expectancy of three years or more) such as motor vehicles, furniture, construction materials, machinery and equipment (including household-type appliances), sporting goods, toys, and hobby goods. Statewide, Group 2 diverted more than 1.5 million tons and had one of the highest diversion rates: 80 percent. The Group 2 generation rate was approximately 2.99 TPEPY, third-highest among all industry groups. The high generation rate and diversion rate for Group 2 were largely due to high Other Diversion rates for sites in this group. Group 2 businesses diverted large quantities of *uncoated corrugated cardboard* and scrap metal. *Clean pallets and crates* was the most prevalent divertible material type in the Group 2 Disposed stream, accounting for 13 percent of disposal.

Durable Wholesale & Trucking								
Key Findings and Metrics								
Disposed	Diverted	Disposed	Diverted	Diversion				
TPEPY	TPEPY	Tons	Tons	Rate				
0.60 2.40 381,767 1,538,803 80%								
Top Three Diversion Opportunities in Disposed Stream								
<ul> <li>Clean Pallets &amp; Crates (13%, 50,937 tons)</li> </ul>								
<ul> <li>Food (10%, 38,192 tons)</li> </ul>								
<ul> <li>Remainder/Composite Paper - Compostable (6%, 24,689 tons)</li> </ul>								

Table 36. Key Findings and Metrics: Durable Wholesale & Tru	ıcking
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Figure 14 presents the annual tons for each stream in Group 2. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins, and materials diverted through other means, such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination—materials not typically acceptable in those streams such as food in recycling bins or glass in organics bins. As shown, approximately three-quarters of total generation at Group 2 businesses went to the Other Diversion stream, and most of the remaining generation was in the Disposed stream. Group 2 reuses large quantities of *uncoated cardboard* and *other ferrous metal*.

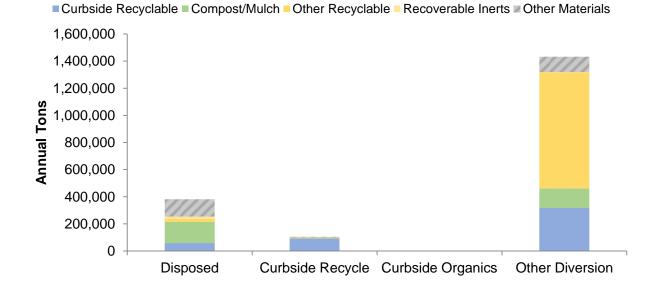


#### Figure 14. Annual Tons by Waste Stream: Durable Wholesale & Trucking

California Commercial Generator Waste Study

Each stream was composed of many different material types, and each of those material types was assigned to one of the five recoverability groups. Table 95 in Appendix B: Material Definitions details the assignment of material types to recoverability groups. Figure 15 breaks down the potential recoverability (by recoverability group) for each stream in Group 2. As shown, approximately two-thirds of the Disposed stream was divertible, mostly **Compost/Mulch** materials. The Other Diversion stream was primarily **Other Recyclable** materials, including scrap metals not usually recycled through curbside programs.

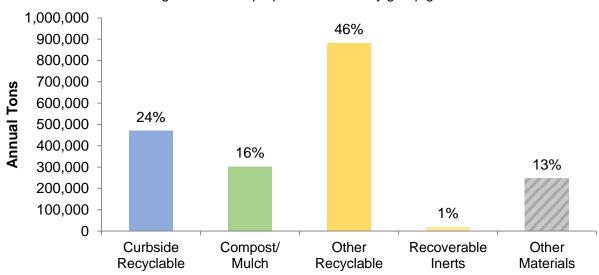
The Group 2 Curbside Recycle contamination rate was 13 percent. The study did not include any sites from this group with Curbside Organics.



### Figure 15. Recoverability by Stream: Durable Wholesale & Trucking

Figure 16 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 16 illustrates, approximately 46 percent of total generation in Group 2 was material in the **Other Recyclable** recoverability group, and approximately 24 percent was **Curbside Recyclable**. When combined, divertible materials accounted for roughly 87 percent of the Group 2 generation. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.





Percentage reflects the proportion of industry group generation

Table 37 presents detailed composition results for each stream in Group 2, as well as for the total group generation.

## Table 37. Composition Summary: Durable Wholesale & Trucking

Paper         22.8%         99.803	Material		osed Est. Tons		e Recycle Est. Tons	Curbside Org	<b>ganics</b> t. Tons	Other D Est. %	Diversion Est. Tons	Total G Est. %	eneration Est. Tons
Paper Regim         0.4%         1.522         1.1%         1.101         -         0.055         76.6         0.255         2.26           Other Office Paper         1.7%         6.64         6.4%         6.760         -         0.055         76.6         0.255         1.55           Other Office Paper         1.7%         6.64         6.4%         6.760         -         0.055         76.6         0.255         1.55           Other Misselineum Paper - Other State         0.5%         1.568         0.7%         7600         -         0.05%         4.64         0.5%         1.568         0.5%         1.568         0.5%         1.568         0.5%         1.568         0.5%         1.568         0.5%         1.568         0.5%         1.568         0.5%         5.60         0.5%         1.568         0.5%         1.568         0.5%         5.60         0.5%         5.60         0.5%         1.568         0.5%         5.60         0.5%         5.60         0.5%         5.60         0.5%         5.60         0.5%         5.60         0.5%         5.60         0.5%         5.60         0.5%         5.60         0.5%         5.60         0.5%         5.76         0.5%         0.5%						-	-				511,854
Wrieugeping         10%         3.944         0.2%         2.25         -         0.0%         4.6         0.5%         4.6           Write Light Properties         0.5%         7.5%         0.5%         1.5%         0.5%         4.6         0.5%         4.6         0.5%         4.6         0.5%         4.6         0.5%         4.6         0.5%         4.6         0.5%         4.6         0.5%         4.6         0.5%         4.6         0.5%         4.6         0.5%         4.6         0.5%         4.6         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%         0.5%         1.5%		4.8%				-	-				399,621
While Lidger Paper         1.9%         7.253         7.5%         6.005         -         -         0.0%         1.65           Drine Office PaperSon         0.1%         2.77         0.2%         1.88         -         0.0%         1.60           Office Modelinger Compatible         0.1%         2.77         0.2%         1.88         -         0.0%         1.60           Office Modelinger Compatible         0.5%         1.68         0.7%         7.80         -         -         0.0%         1.60           Office Modelinger Compatible         0.4%         1.66         0.66         0.7%         1.60         -         0.0%         1.60         1.5%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%         2.2%						-	-				2,831
Obser Office Page         1.7%         6.424         6.45%         7.560         -         -         OTS         2.282         OTS         1.25%           Other Misselinesce Page - Orngositive         0.5%         1.968         0.7%         7.60         -         0.0%         1.62         0.2%         2.8           Other Misselinesce Page - Orngositive         0.5%         1.968         0.7%         7.60         -         0.0%         1.20         0.2%         2.8         0.8%         1.5%         1.3%         0.2%         2.8         0.6%         1.4         0.3%         1.26         0.0%         1.2         0.2%         2.8         0.4%         3.5%         3.2%         -         0.0%         1.6         0.4%         0.6         0.6         -         0.0%         1.6         0.4%         0.6         0.6         -         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0% <t< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td>4,884</td></t<>						-	-				4,884
Magazine and Catalogs         0.5%         2.066         1.5%         1.526         -         -         0.0%         463         0.2%         4.4           Prome Singles and Dimensions Pager - Orner         3.3%         1.5057         0.5%         6.69         -         0.0%         4.63         0.0%         7.2         1.5%         2.35         0.5%         7.2         1.5%         2.35         0.5%         7.2         1.5%         2.35         0.5%         7.2         0.0%         4.2         1.5%         2.35         0.5%         7.2         0.0%         4.3         1.5%         2.35         0.5%         7.2         1.5%         2.35         0.5%         7.2         1.5%         2.35         0.5%         2.3         0.5%         2.3         1.5%         2.35         0.5%         2.35         0.5%         2.35         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%						-	-				15,673
Phone Bools and Directories         0.1%         271         0.2%         188         -         -         0.0%         52           Diter Mascellament Paper - Composite Paper - Orror         4.5%         1.26.0         2.5%         2.26         2.7%         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8						-	-				16,140
Other Macademens Pager - Composible         0.5%         1.968         0.7%         7.60         -         -         0.7%         1.22         0.5%         1.22           Open Macademens Pager - Other         0.4%         1.977         2.2%         2.3         0.5%         1.22         0.5%         1.22         0.5%         1.22         0.5%         1.22         0.5%         1.22         0.5%         1.22         0.5%         1.22         0.5%         1.22         0.5%         1.22         0.5%         1.22         0.5%         1.22         0.5%         1.22         0.5%         1.22         0.5%         1.22         0.5%         1.22         0.5%         1.25         0.5%         1.25         0.5%         1.25         0.5%         1.25         0.5%         1.25         0.5%         1.25         0.5%         1.25         0.5%         1.25         0.5%         1.25         0.5%         1.25         0.5%         1.25         0.5%         1.25         0.5%         1.25         0.5%         1.25         0.5%         1.25         0.5%         1.25         0.5%         1.25         0.5%         1.25         0.5%         1.25         0.5%         1.25         0.5% <th1.25< th="">         0.5%</th1.25<>						-	-				4,455
Ohmer Microaltencous Pager - Order Advances         3.9%         15.067         0.0%         6.43         -         -         0.0%         12.33         0.0%         12.33         0.0%         12.33         0.0%         12.33         0.0%         12.33         0.0%         12.33         0.0%         12.33         0.0%         12.33         0.0%         12.33         0.0%         12.33         0.0%         12.33         0.0%         12.33         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%						_	-				2,891
Remainde/Composite Fight - Composite in an of the second						-	-				17,241
Remains         4.4%         16,072         2.2%         2.310         -         0.0%         40         1,0%         16,07           Giss         0.0%         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%						-	-				28,188
Clear Glass Butlins and Containers         0.2%         838         0.4%         384         -         0.0%         6         0.1%         12           Green Glass Butlins and Containers         0.0%         60         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0		4.4%		2.2%		-	-	0.0%	49	1.0%	19,331
Green Glass Edites and Containers Brown Glass Edites and Containers Brown Glass Edites and Containers Brawn Glass Edite	Glass					-	-		143	0.3%	6,709
Brown Class Bottles and Containers         0.2%         638         0.0%         52         -         -         0.0%         0         0.0%         0           Fun Class Containers         1.0%         4.34         0.0%         0         -         -         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         4.3           Main Applances         0.3%         1.1%         1.0%         1.2%         2.2%         2.25         -         -         0.0%         6.0         0.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%						-	-				1,228
Other Gliss Colored Bottles and Containers         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0						-					298
File Glass         11.1%         4.343         0.0%         0         -         0.0%         0         0.2%         4.3           Metal         Cons         4.3%         1.1%         1.0%         0.0%         0         -         0.0%         0         0.0%         4.3           Maior Applications         0.3%         1.1%         1.0%         0.0%         0         -         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         <						-	-				692
Remainder/Composite Glass         0.0%         146         0.0%         0         -         -         0.0%         0         0.0%         1           Tirs/Bee Cans         0.1%         4.2%         4.711         1.0%         2.03         -         -         0.0%         95.37         0.1%         1.1           Used OI Filters         0.1%         3.28         0.2%         2.03         3.44         -         -         0.0%         10.7%         79.44           Used OI Filters         0.1%         3.28         0.1%         128         -         0.0%         10.7%         79.44           Aummun Cans         0.1%         3.260         0.1%         128         -         0.0%         10.7%         127.57           Bernonice         0.7%         1470         0.0%         0         -         -         3.0%         116.48         127.57         20%         128.57         10.7%         128.57         10.7%         128.57         10.7%         128.57         10.7%         128.57         10.7%         128.57         10.7%         128.57         10.7%         128.57         10.7%         128.57         10.7%         128.57         10.7%         128.57         10.7%			-		-	-	-				0
Metal         4.5%         17.17         1.0%         1.02%         2.0         -         6.4.3%         95.4.1         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.8.341         8.3.41         8.8.341         8.3.41         8.8.341         8.3.41         8.8.341         8.3.41         8.8.341         8.3.41         8.8.341         8.3.41         8.3.41         8.3.41         8.3.41         8.3.41         8.3.41         8.3.41 </td <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>4,343</td>					-	-					4,343
Tim/Seel Cans         0.1%         425         0.2%         203         -         0.0%         607         0.1%         1.1           Used OF Films         0.3%         1.145         0.0%         0         -         0.0%         607         0.1%         1.1           Used OF Films         0.3%         1.145         0.0%         0.0%         1.0%         0.0%         1.0%         0.0%         1.0%         0.0%         1.0%         1.1%         1.15         0.0%         0.0%         1.0%         1.2         0.0%         1.0%         1.2         0.0%         1.2         0.0%         1.2         0.0%         1.2         0.0%         1.2         0.0%         1.2         0.0%         1.2         0.0%         1.2         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%						_	-				146
Mage Appliances         0.3%         1,145         0.0%         0         -         0.0%         0         0.1%         1.1%           Used Oil Filters         1.0%         3.298         0.3%         344         -         6.53%         798.386         14.1%         798.386         14.1%         798.386         14.1%         798.386         14.1%         798.386         14.1%         798.386         14.1%         798.386         14.1%         798.386         14.1%         798.386         0.5%         12.2         7.8%         10.1%         12.3%         53.6         0.5%         12.8         53.6         0.5%         12.8         53.6         0.5%         12.8         53.6         0.5%         12.8         53.6         0.5%         12.8         53.6         0.5%         12.8         53.6         0.5%         0.0%         0         -         0.0%         2.2%         53.6         0.5%         52.6         12.8         12.8         12.8         12.8         12.8         12.8         12.8         12.8         12.8         12.8         12.8         12.8         12.8         12.8         12.8         12.8         12.8         12.8         12.8         12.8         12.8         12.8         12											1,185
Used Diffliers         0.1%         208         0.0%         0         -         0.0%         0         0.0%         798.4           Aluminur Cans         0.1%         3.21         0.1%         122         -         0.0%         112         0.0%         798.4         14.6%         798.4         14.6%         798.4         14.6%         798.4         14.6%         798.4         14.6%         798.4         14.6%         798.4         14.6%         798.4         14.6%         798.4         14.6%         798.4         14.6%         798.4         14.6%         798.4         14.6%         798.4         14.6%         798.4         14.6%         798.4         14.6%         798.4         14.6%         798.4         12.6%         53.6%         79.6%         12.7%         12.6%         53.6%         79.6%         12.7%         13.7%         52.28         14.6%         53.6%         64.1         -         0.1%         12.21         1.1%         52.26         11.7%         52.28         14.6%         50.7%         2.6%         50.80         -         0.0%         0         0.1%         13.7%         52.25         -         0.0%         0         0.1%         13.7%         52.26%         0.2% <td< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td>1,145</td></td<>						-					1,145
Other Ferrous         1.0%         3.729         0.3%         3.44         -         5.5%         779.364         41.6%         798.364           Aturnium Cansus         0.9%         3.560         0.1%         156         -         0.6%         10.2         0.0%         5.5%         0.6%         12.0         0.7%         5.5%         0.7%         5.5%         0.6%         12.0         0.7%         5.5%         0.6%         12.0         0.7%         5.5%         0.6%         12.0         0.7%         5.0%         12.0         0.7%         5.0%         12.0         0.7%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.0%         5.						-	-				208
Aluminum Cans         0.1%         311         0.1%         126         -         0.0%         102         0.0%         102           Remainder/Composite Metal         2,0%         7,690         0.2%         200         -         7,9%         113,760         6,3%         122,8         6,3%         124,6         6,3%         124,6         6,3%         124,6         6,3%         124,6         6,3%         124,6         6,3%         124,6         6,3%         124,6         6,3%         124,6         6,3%         124,6         6,3%         124,6         6,3%         124,6         6,3%         124,6         6,3%         124,6         137,6         6,3%         124,6         124,6         124,6         124,6         124,6         124,6         137,6         124,6         124,6         144,6         124,6         124,6         124,6         124,6         124,6         124,6         124,6         124,6         124,6         124,6         124,6         137,6         130,7         130,7         130,7         130,7         130,7         130,7         130,7         130,7         130,7         131,7         124,7         144,7         124,7         144,7         124,7         131,7         130,7         130,7						-	-				799,427
Other Non-Ferrous         0.9%         3.560         0.1%         155         -         0.8%         8.568         0.0%         12.2%           Remainder/Composite Metal         0.7%         2.471         0.0%         0         -         3.3%         13.760         6.3%         13.770         6.3%         13.770         6.3%         13.770         6.3%         13.770         6.3%         13.770         6.3%         13.770         6.3%         13.770         6.3%         13.770         6.3%         13.770         6.3%         13.770         6.3%         13.770         6.3%         13.770         6.3%         13.770         6.3%         13.770         6.3%         13.770         6.3%         13.770         6.3%         13.770         6.3%         13.78         6.3%         150         -         0.0%         0         0.7%         10.0%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%         10.3%						-	-				580
Electronics         0.7%         2.617         0.0%         0         -         -         3.8%         51.20         2.8%         53.6           Brown Goods         0.0%         72         0.0%         0         -         -         3.5%         50.78         2.8%         53.8         Computer-related Electronics         0.0%         72         0.0%         0         -         -         0.0%         2.8%         53.8         50.7%         2.8%         50.7%         53.8         50.7%         2.8%         50.7%         72         0.0%         0         -         0.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0%         72         10.0% <t< td=""><td></td><td></td><td>3,560</td><td></td><td>156</td><td>-</td><td>-</td><td></td><td></td><td></td><td>12,284</td></t<>			3,560		156	-	-				12,284
Brown Goods         0.5%         1.840         0.0%         0         -         -         0.0%         5.3         0.1%         5.8           Computer-leated Electronics         0.2%         705         0.0%         0         -         -         0.0%         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785         50.785						-	-				121,659
Computer-related Electronics         0.0%         TZ         0.0%         0         -         -         3.5%         50.85         2.2%         50.8           Video Display Devices         0.0%         0         0.0%         0         -         0.0%         0         0.0%         22           Plactic         0.0%         23.35         4.0%         52.00         -         -         0.0%         23         0.0%         22           Plactic         0.0%         23.55         4.0%         52.00         -         -         0.0%         23         0.0%         2         2.0%         2.0%         4.0         0.0%         4.2         0.0%         4.2         0.1%         1.3         2.5%         4.0         0.2%         100         -         0.0%         4.4         2.4         1.4         1.4%         5.307         2.8%         2.952         -         0.0%         0         0.4%         4.2         -         0.0%         0         0.4%         6.2         -         0.0%         0         0.4%         6.2         -         0.0%         0         0.4%         6.2         -         0.0%         0         0.4%         7.3         0.4%         6.2						-	-				53,638
Other Small Consumer Electronics         0.2%         705         0.0%         0         -         -         0.0%         0         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         0.0%         233         233         233         233         233         233 <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td>1,843</td>						-	-				1,843
Video Display Devices         0.0%         0         0.0%         0         -         -         0.0%         233         0.0%         58           PTET Plastic Containers         0.2%         837         0.8%         641         -         -         0.1%         722         0.1%         2.2         0.1%         2.2         0.1%         2.2         0.1%         2.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         0.1%         1.2         1.2         0.1%         0.2         1.2         0.1%<					-	-	-				50,857
Plastic         13.7%         52.355         4.9%         5.200         -         -         0.1%         12.21         3.1%         52.20           HDEP Elastic Containers         0.2%         612         0.2%         240         -         -         0.0%         352         0.1%         1.2           HDEP Elastic Containers         0.2%         617         0.2%         210         -         -         0.0%         352         0.1%         1.2           Macelleneous Plastic Containers         0.2%         617         0.0%         19         -         -         0.0%         0         0.0%         66           Plastic Grow and Other Merchandise Bags         0.2%         617         0.0%         62         0.0%         62         0.0%         62         0.0%         62         0.0%         62         0.0%         62         0.0%         62         0.0%         62         0.0%         62         0.0%         62         0.0%         63         0.0%         0         0.0%         0         0.0%         62         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%						-	-				705 233
PETE Plastic Containers         0.2%         837         0.8%         641         -         -         0.1%         722         0.1%         2.2           Miscellaneous Plastic Containers         0.3%         1.102         0.2%         2.40         -         0.0%         345         0.1%         1.2           Miscellaneous Plastic Containers         0.3%         1.102         0.2%         2.01         -         0.0%         35         0.1%         1.3           Plastic Trans Bag         0.3%         617         0.0%         19         -         0.0%         5         0.0%         6           Durable Plastic Items - 2 and #5 Bulky Rigids         0.1%         5.00         0.4%         412         -         0.0%         6.3         0.4%         7.2           Durable Plastic Items Other         1.8%         6.300         0.4%         412         -         0.0%         6.3         0.4%         7.2         0.0%         0         0.0%         7.5         0.0%         0.0%         0.0%         0         0.0%         7.5         0.0%         0         0.0%         7.5         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%					-	-	-				
HDPE Plastic Containers         0.2%         612         0.2%         240         -         -         0.0%         382         0.1%         1.3           Plastic Trash Bags         0.2%         617         0.2%         211         -         -         0.0%         45         0.1%         1.3           Plastic Grossy and Other Merchandise Bags         0.2%         617         0.0%         10         -         0.0%         5         0.0%         66           Non-Bag Commercial and Industrial Packaging Film         1.4%         5.307         2.8%         2.952         -         0.0%         0.0%         63         0.4%         8.2           Other Mitchet         0.0%         2         0.0%         8         -         0.0%         0         0.0%         7.3         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%						-	-				2,200
Imscellaneous Plastic Containers         0.3%         1.102         0.2%         190         -         -         0.0%         45         0.1%         1.3           Plastic Grozery and Other Merchandise Bags         0.2%         617         0.0%         19         -         0.0%         5         0.0%         68           Non-Bag Commercial and Industrial Packaging Film         1.4%         5.30         0.2%         82         -         0.0%         0         0.4%         82           Other Film - Other         1.8%         6.900         0.4%         412         -         0.0%         0         0.0%         63         0.4%         82         -         0.0%         0         0.0%         63         0.4%         82         -         0.0%         0         0.0%         63         0.4%         822         -         0.0%         0         0.0%         68         0.4%         222         -         0.0%         0         0.0%         62         20.7%         336         20.7%         336         20.7%         326         2.0%         326         2.0%         326         2.0%         327         327         326         2.0%         327         327         336         2.0%						-	-				1,235
Plastic Grocery and Other Marchandise Bags         0.2%         617         0.0%         19         -         -         0.0%         5         0.0%         6           Non-Bag Commercial and Industrial Packaging Film         1.4%         5.37         2.8%         2.952         -         -         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0         -         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0.0%         0         0.0%         0         0.0%         0         0.0%         0.0%         0         0.0%         0         0.0%         0.0% <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td>1,337</td>						-	-				1,337
Non-Bag Commercial and Industrial Packaging Film         1.4%         5.307         2.8%         2.952         -         -         0.0%         0         0.4%         8.2           Other Film - Other         1.8%         6.900         0.4%         41         -         -         0.0%         63         0.4%         7.3           Durable Plastic tems - 2 and #5 Bulky Rigids         1.8%         6.263         0.4%         422         -         0.0%         0         0.3%         6.6           Remainder/Composite Plastic         5.4%         20.560         0.2%         225         -         -         0.0%         0         0.3%         6.6           Food         10.3%         69.760         0.2%         225         -         -         9.3%         132.260         10.5%         20.5%         38.7         7.1%         20.0%         0         -         0.0%         0         0.4%         355         2.0%         38.7         7.4         3.4%         30.0%         0         -         0.0%         0         0.0%         0         -         0.0%         0         0.4%         3.2         10.5%         33.2         Carset         0.0%         0         0.0%         0 <t< td=""><td>Plastic Trash Bags</td><td>2.5%</td><td>9,624</td><td>0.2%</td><td>211</td><td>-</td><td>-</td><td>0.0%</td><td>0</td><td>0.5%</td><td>9,835</td></t<>	Plastic Trash Bags	2.5%	9,624	0.2%	211	-	-	0.0%	0	0.5%	9,835
Film Products         0.0%         27         0.0%         8         -         0.0%         0.0%           Other Film- Other         1.8%         6.900         0.4%         412         -         0.0%         60         0.4%         7.3           Durable Plastic Items - Under         1.6%         6.23         0.4%         422         -         0.0%         0         0.3%         66.6           Remainder/Composite Plastic         16.8%         6.297         0.2%         2256         -         9.3%         132.560         10.5%         20.2%         22.7         -         0.0%         0         -         0.0%         0         -         0.0%         0         -         0.0%         0         -         1.5%         20.5%         32.7%         133.8         0.0%         0         -         -         0.0%         0         -         0.0%         0.4%         7.4         -         0.7%         2.59         0.0%         0         -         -         0.0%         0.1%         12.5         Manures         -         0.0%         0         -         -         0.0%         0         -         -         0.0%         0         -         -         0.0%	Plastic Grocery and Other Merchandise Bags	0.2%		0.0%		-	-	0.0%		0.0%	641
Other Film - Other         1.8%         6.900         0.4%         412         -         -         0.0%         63         0.4%         7.3           Durable Plastic Items - Zand #5 Buiky Rigids         1.6%         6.263         0.4%         422         -         0.0%         0         0.0%         5           Durable Plastic Items - Other         5.4%         20.562         0.1%         105         -         0.0%         0.3%         66           Food         10.0%         3812         0.2%         226         -         9.3%         132,560         10.5%         20.9%         387           Food         10.0%         3812         0.2%         217         -         0.0%         0         -         9.3%         132,860         10.4%         7.14         0.0%         0         -         9.2%         12.4%         7.0%         0.4%         7.1         10.0%         0.0%         0         0.0%         0         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%						-	-				8,259
Durable Plastic Items - #2 and #5 Bully Rigids         0.1%         505         0.0%         0         -         -         0.0%         0         0.0%         56           Durable Plastic Items - 00rd         18.3%         66,9760         0.2%         226         -         -         0.0%         0         0.3%         66,           Other Organic         18.3%         66,9760         0.2%         226         -         -         9.3%         132,560         10.5%         20,0%         335         2.0%         337         1.1%         20.7         -         -         9.3%         132,168         7.0%         134,9         20,7%         2599         0.0%         0         -         -         0.0%         0         0.7%         134,9         7.0%         134,9         7.0%         134,9         7.0%         134,9         7.0%         134,9         7.0%         134,9         7.0%         134,9         7.0%         134,9         7.0%         134,9         7.0%         134,9         7.0%         134,9         7.2%         12,28         7.0%         13,3         7.6%         7.8%         132,18         7.0%         13,3         14,3%         5,35         0.0%         0         0.0%         <					-	-	-				35
Durable Plastic tems - Other         16%         6.263         0.4%         422         -         -         0.0%         0         0.3%         66.6           Remainder/Composite Plastic         18.3%         69.760         0.2%         226         -         -         9.3%         132,560         10.5%         220%         38.7           Food         10.0%         38.192         0.2%         217         -         0.0%         0.0%         0         -         -         0.0%         0.0%         73.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8						-	-				7,375
Remainder/Composite Plastic         5.4%         20.52         0.1%         105         -         -         0.0%         73         1.1%         20.7           Codher Organic         18.3%         69.760         0.2%         226         -         9.3%         132,560         10.0%         20.7%         226           Food         1.9%         7.138         0.0%         0         -         -         0.0%         0.0%         0         -         0.0%         0.0%         0         -         0.0%         0.0%         0         -         -         0.0%         0         0.0%         7.3         13.49           Branches and Stumps         0.7%         2.599         0.0%         0         -         -         0.0%         0         0.0%         0         -         -         0.0%         0         0.3%         5.3         Carpet         0.0%         0         -         -         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%						-	-				505
Other Organic         18.3%         69.760         0.2%         256         -         -         9.3%         132,560         10.5%         2025,5           Leaves and Grass         10.9%         38.192         0.2%         217         -         -         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%<						-	-				20,740
Food         10.0%         38,192         0.2%         217         -         -         0.0%         355         2.0%         837.7           Leaves and Grass         1.9%         7.138         0.0%         0         -         -         9.0%         0.0%         0         0.0%         132,188         7.0%         134,187         7.0%         132,188         7.0%         132,188         7.0%         12,55           Manures         0.0%         0         0.0%         0         -         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         <											20,740 202,576
Leaves and Grass         1.9%         7.138         0.0%         0         -         -         0.0%         0         0.4%         7.1           Prunings and Timmings         0.7%         2.599         0.0%         0         -         -         0.0%         0         0.1%         2.50           Manures         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%         0         0.3%         5.3           Carpet         0.3%         1.2,384         0.0%         0         -         -         0.0%         0         0.3%         5.3           Inerts and Other         3.2%         12,384         0.0%         0         -         -         0.0%         0         0.6%         12.3           Concrete         3.2%         12,384         0.0%         0         -         -         0.0%         0         0.0%         6.5         3.5         3.5         3.5         3.5         3.5         3.6         6.515         0.0%         0         -         0.0%         0         0.5%         6.515         0.0%         0         -         0.0%         0         0.5%         6.515         0.0%						-	-				38,765
Prunings and Trimmings         0.7%         2.771         0.0%         0         -         -         9.2%         132,188         7.0%         134,9           Branches and Stumps         0.7%         2.599         0.0%         0         -         0.0%         0         0.1%         2.55           Manures         0.0%         0         0.0%         0         -         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0						-	-				7,138
Manures         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%           Textlies         1.4%         5.356         0.0%         39         -         -         0.0%         17         0.1%         1.3           Carpet         0.3%         1.320         0.0%         0         -         -         0.0%         12.38           Inerts and Other         3.2%         12.384         0.0%         0         -         -         0.0%         12.38           Concrete         1.7%         6.515         0.0%         0         -         -         0.0%         0         0.3%         6.51           Asphalt Paving         0.0%         0         0.0%         0         -         -         0.0%         0         0.3%         6.51           Clean Engineered Wood         2.3%         8.688         0.0%         0         -         -         0.0%         0         0.5%         8.66           Clean Engineered Wood         2.3%         8.688         0.0%         0         -         -         0.0%         0         0.5%         8.66           Clean Pallets & Crates         13.3% <td< td=""><td>Prunings and Trimmings</td><td>0.7%</td><td></td><td>0.0%</td><td>0</td><td>-</td><td>-</td><td>9.2%</td><td>132,188</td><td>7.0%</td><td>134,959</td></td<>	Prunings and Trimmings	0.7%		0.0%	0	-	-	9.2%	132,188	7.0%	134,959
Textiles         1.4%         5.356         0.0%         39         -         -         0.0%         0         0.3%         5.33           Carpet         0.3%         1.32         0.0%         0         -         0.0%         17         0.1%         13.3           Inerts and Other         3.2%         12.384         0.0%         0         -         -         0.0%         12.38           Inerts and Other         3.2%         12.37%         124.766         0.0%         0         -         -         0.9%         12.39         7.2%         137.6           Concrete         1.7%         6.515         0.0%         0         -         -         0.0%         0         0.0%         6.5           Asphalt Rooting         1.6%         6.171         0.0%         0         -         -         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0	Branches and Stumps	0.7%	2,599	0.0%	0	-	-	0.0%	0	0.1%	2,599
Carpet Remainder/Composite Organic         0.3%         1.320         0.0%         0         -         -         0.0%         17         0.1%         1.3           Inerts and Other         3.2%         12,384         0.0%         0         -         -         0.0%         0         0.6%         12,384           Concrete         1.7%         6,515         0.0%         0         -         -         0.0%         0         0.3%         6,55           Asphalt Paving         0.0%         0         0.0%         0         -         -         0.0%         0         0.3%         6,5           Asphalt Rooting         1.6%         6,171         0.0%         0         -         -         0.0%         0         0.3%         6,1           Clean Dimensional Lumber         4.6%         17,547         0.0%         0         -         -         0.0%         0         0.3%         6,1           Char Paliets & Crates         13.3%         50,937         0.0%         0         -         -         0.0%         0         0.5%         8,6           Char Paliets & Crates         0.3%         1.48         0.0%         0         -         -         0.0%						-	-				0
Remainder/Composite Organic         3.2%         12.384         0.0%         0         -         -         0.0%         0         0.6%         12.7%           Inerts and Other         32.7%         124,766         0.0%         0         -         -         0.9%         12,894         7.2%         137,6           Concrete         1.7%         6,515         0.0%         0         -         -         0.9%         0         0.3%         6.5           Asphalt Roding         1.6%         6,171         0.0%         0         -         0.0%         0         0.3%         6.1           Clean Dimensional Lumber         4.6%         17,547         0.0%         0         -         0.0%         0         0.5%         8.6           Clean Engineered Wood         2.3%         8,688         0.0%         0         -         0.0%         0         0.5%         8.6           Clean Pallet's & Crates         13.3%         50.3937         0.0%         0         -         0.0%         0         0.6%         2.44           Gypsum Board         0.6%         2.418         0.0%         0         -         0.0%         0         0.6%         2.43						-	-				5,395
Inerts and Other         32.7%         124,766         0.0%         0         -         -         0.9%         12,894         7.2%         137,6           Concrete         1.7%         6,515         0.0%         0         -         -         0.0%         0         0.3%         6,55           Asphalt Roofing         1.6%         6,171         0.0%         0         -         -         0.0%         0         0.3%         6,55           Clean Dimensional Lumber         4.6%         17,547         0.0%         0         -         -         0.0%         0         0.5%         8,68           Clean Fagineered Wood         2.3%         8,688         0.0%         0         -         -         0.0%         0         0.5%         8,62           Other Wood Waste         3.0%         11,496         0.0%         0         -         -         0.0%         0         0.5%         8,62           Other Wood Waste         3.0%         11,486         0.0%         0         -         -         0.0%         0         0.1%         12,83         0.2%         37,7%           Remainder/Composite Inerts and Other         4.9%         18,887         0.0%         0 <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td>1,337</td>						-	-				1,337
Concrete         1.7%         6,515         0.0%         0         -         -         0.0%         0         0.3%         6,55           Asphalt Roofing         1.6%         6,171         0.0%         0         -         -         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%						-					12,384
Asphalt Paving         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0						-					137,660
Asphalt Roofing         1.8%         6.171         0.0%         0         -         -         0.0%         0         0.3%         6.1           Clean Dimensional Lumber         4.6%         17,547         0.0%         0         -         -         0.0%         0         0.9%         17.5           Clean Engineered Wood         2.3%         8,688         0.0%         0         -         -         0.0%         0         0.5%         8,68           Clean Pailets & Crates         13.3%         50,937         0.0%         0         -         0.0%         0         0.5%         8,68           Other Wood Waste         3.0%         11.496         0.0%         0         -         0.0%         0         0.6%         11.4           Gypsum Board         0.6%         2.418         0.0%         0         -         0.0%         0         1.6%         37.7           Household Hazardous Waste         0.6%         2.188         0.0%         0         -         0.0%         0         0.0%         1.0%         1.88         0.2%         37.7           Household Hazardous Waste         0.0%         0         0.0%         0         -         -         0.0%0						-	-				6,515 0
Clean Dimensional Lumber         4.6%         17,547         0.0%         0         -         -         0.0%         0         0.9%         17,55           Clean Engineered Wood         2.3%         8.688         0.0%         0         -         -         0.0%         0         0.5%         8.62,1           Other Wood Waste         3.3%         50,937         0.0%         0         -         -         0.0%         0         0.6%         11,211         3.2%         62,1           Other Wood Waste         3.0%         11,496         0.0%         0         -         -         0.0%         0         0.6%         11,4           Gypsum Board         0.6%         2,418         0.0%         0         -         -         0.0%         0         1.0%         18.8         2.7           Remainder/Composite Inerts and Other         4.9%         18.887         0.0%         0         -         -         0.0%         0         1.0%         18.88           Paint         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td>6,171</td></td<>							-				6,171
Clean Engineered Wood         2.3%         8.688         0.0%         0         -         -         0.0%         0         0.5%         8.66           Clean Pallets & Crates         13.3%         50,937         0.0%         0         -         -         0.8%         11,211         3.2%         62,1           Other Wood Waste         3.0%         11,496         0.0%         0         -         -         0.0%         0         0.6%         11,4           Gypsum Board         0.6%         2,418         0.0%         0         -         -         0.0%         0         0.1%         2,4           Rock, Soil and Fines         0.6%         2,108         0.0%         0         -         -         0.0%         0         1.0%         18.8           Household Hazardous Waste         0.0%         18,887         0.0%         0         -         -         0.0%         0         0.0%         1         1.0%         18.8           Household Hazardous Waste         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%         1           Paint         0.0%         0         0.0%         0         0.0%						_	_				17,547
Clean Pallets & Crates         13.3%         50.937         0.0%         0           0.8%         11,211         3.2%         62,1           Other Wood Waste         3.0%         11,496         0.0%         0           0.0%         0         0.6%         11,4           Gypsum Board         0.6%         2,418         0.0%         0           0.0%         0         0.6%         2,418           Rock, Soil and Fines         0.6%         2,108         0.0%         0           0.1%         1,683         0.2%         3,7           Remainder/Composite Inerts and Other         4.9%         18,87         0.0%         0           0.0%         0         0.0%         1           Paint         0.0%         0         0.0%         0           0.0%         0         0.0%         1           Used Oil         0.0%         0         0.0%         0           0.0%         0         0.0%         1           Special Waste         0.0%         74         0.0%         0           0.0%         <						-	-				8,688
Other Wood Waste         3.0%         11,496         0.0%         0         -         -         0.0%         0         0.6%         11,4           Gypsum Board         0.6%         2,418         0.0%         0         -         -         0.0%         0         0.1%         2,4           Rock, Soil and Fines         0.6%         2,108         0.0%         0         -         -         0.0%         0         1.683         0.2%         3.7           Remainder/Composite Inerts and Other         4.9%         18,887         0.0%         0         -         -         0.0%         0         1.0%         18.8           Household Hazardous Waste         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%         1         1.0%         18.8           Paint         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0					-	-	-				62,148
Gypsum Board         0.6%         2,418         0.0%         0         -         -         0.0%         0         0.1%         2,4           Rock, Soil and Fines         0.6%         2,108         0.0%         0         -         -         0.1%         1,683         0.2%         3,7           Remainder/Composite Inerts and Other         4.9%         18,887         0.0%         0         -         -         0.0%         40         0.0%         1.8,87           Household Hazardous Waste         0.0%         146         0.0%         0         -         -         0.0%         40         0.0%         1.8,87           Paint         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%						-	-				11,496
Remainder/Composite Inerts and Other         4.9%         18.887         0.0%         0         -         -         0.0%         0         1.0%         18.887           Household Hazardous Waste         0.0%         10         0.0%         0         -         -         0.0%         40         0.0%         1           Paint         0.0%         0         0.0%         0         -         -         0.0%         40         0.0%         1           Vehicle and Equipment Fluids         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%         1           Batteries         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%         1           Remainder/Composite Household Hazardous         0.0%         74         0.0%         0         -         -         0.0%         0         0.0%         1           Remainder/Composite Household Hazardous         0.0%         74         0.0%         0         -         -         0.0%         0         0.0%         1           Special Waste         0.0%         0         0.0%         0         -         0.0% <th0< td=""><td>Gypsum Board</td><td>0.6%</td><td>2,418</td><td>0.0%</td><td>0</td><td>-</td><td>-</td><td>0.0%</td><td>0</td><td>0.1%</td><td>2,418</td></th0<>	Gypsum Board	0.6%	2,418	0.0%	0	-	-	0.0%	0	0.1%	2,418
Household Hazardous Waste         0.0%         146         0.0%         0         -         -         0.0%         40         0.0%         1           Paint         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%		0.6%	2,108	0.0%	0	-	-	0.1%	1,683	0.2%	3,791
Paint         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%           Vehicle and Equipment Fluids         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0						-	-				18,887
Vehicle and Equipment Fluids         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%         0           Used Oil         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         1         5         0.0%         0         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         1         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0					-	-	-				186
Used Oil       0.0%       0       0.0%       0       -       -       0.0%       0       0.0%       1         Batteries       0.0%       72       0.0%       0       -       -       0.0%       40       0.0%       1         Remainder/Composite Household Hazardous       0.0%       72       0.0%       0       -       -       0.0%       40       0.0%       0         Special Waste       0.0%       74       0.0%       0       -       -       0.0%       0       0.0%       9,6         Ash       0.2%       582       0.0%       0       -       -       0.0%       0       0.0%       5         Treated Medical Waste       0.0%       0       0.0%       0       -       -       0.0%       0       0.0%       5         Treated Medical Waste       0.0%       0       0.0%       0       -       -       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0<			-			-	-				0
Batteries         0.0%         72         0.0%         0         -         -         0.0%         40         0.0%         1           Remainder/Composite Household Hazardous         0.0%         74         0.0%         0         -         -         0.0%         0         0.0%         1           Special Waste         2.5%         9,622         0.0%         0         -         -         0.0%         0         0.0%         9,62           Ash         0.2%         582         0.0%         0         -         -         0.0%         0         0.0%         9,62           Ash         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%         55           Treated Medical Waste         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%						-	-				0
Remainder/Composite Household Hazardous         0.0%         74         0.0%         0         -         -         0.0%         0         0.0%           Special Waste         2.5%         9,622         0.0%         0         -         -         0.0%         0         0.5%         9,62           Ash         0.2%         582         0.0%         0         -         -         0.0%         0         0.0%         9,6           Treated Medical Waste         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%         5           Bulky Items         2.4%         9,040         0.0%         0         -         -         0.0%         0         0.0%         0           Treas         0.0%         0         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%           Mixed Residue         0.2%         754         2.1%         2.238         -         -         100.0%         1,322,50         100.0%         1,920,50						-	-				0 112
Special Waste         2.5%         9,622         0.0%         0         -         -         0.0%         0         0.5%         9,66           Ash         0.2%         582         0.0%         0         -         -         0.0%         0         0.0%         5           Treated Medical Waste         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%         5           Buiky Items         2.4%         9,040         0.0%         0         -         -         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0							-				74
Ash       0.2%       582       0.0%       0       -       -       0.0%       0       0.0%       5         Treated Medical Waste       0.0%       0       0.0%       0       -       -       0.0%       0       0.0%       0         Bulky Items       2.4%       9.040       0.0%       0       -       -       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%							-				9,622
Traceade Medical Waste       0.0%       0       0.0%       0       -       -       0.0%       0       0.0%       0         Bulky Items       2.4%       9,040       0.0%       0       -       -       0.0%       0       0.5%       9,040         Tires       0.0%       0       0.0%       0       -       -       0.0%       0       0.5%       9,040         Nixed Residue       0.0%       0       0.0%       0       -       -       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0.0%       0       0.0%       0       0.0%       0       0.0%       0.0%       0       0.0%       0       0.0%       0.0%       0.0%       0.0%       0       0.0%       0.0%       0.0%       0.0%       0       0.0%       0.0%       0.0%						-	-				582
Bulky Items         2.4%         9,040         0.0%         0         -         -         0.0%         0         0.5%         9,0           Tires         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0 </td <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td>0</td>					-	-	-				0
Tires         0.0%         0         0.0%         0         -         -         0.0%         0         0.0%         0           Mixed Residue         0.0%         0         2.1%         2.238         -         -         0.0%         0         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0% <th< td=""><td></td><td></td><td>9,040</td><td></td><td>-</td><td>-</td><td>-</td><td></td><td></td><td></td><td>9,040</td></th<>			9,040		-	-	-				9,040
Mixed Residue         0.2%         754         2.1%         2,238         -         -         0.0%         0         0.2%         2,9           Totals         100.0%         381,767         100.0%         106,253         -         -         100.0%         1,432,550         100.0%         1,920,55	Tires				0	-	-				0
Totals         100.0%         381,767         100.0%         106,253         -         100.0%         1,432,550         100.0%         1,920,55			-		-	-	-				0
	Mixed Residue	0.2%	754	2.1%	2,238	-	-	0.0%	0	0.2%	2,992
	Totala	100.00/	204 707	100.00/	106 252			100.00/	1 420 550	100.00/	1 000 570
Streams Sampled 52 14 0 64 130			,				-				
TPEPY         0.60         0.17         0.00         2.23         2.99	Streams Sampled										

Percentages for material types may not total 100% due to rounding.

Tables detailing the composition for all 82 materials can be found in Appendix E: Detailed Composition Tables

# Findings for Education

Table 38 presents key findings for the Education industry group (Group 3). Group 3 had one of the lowest generation rates, 0.50 TPEPY, and one of the lowest diversion rates, 15 percent, in the study. *Food* was the most prevalent divertible material type in the Group 3 Disposed stream, accounting for 34 percent of disposal.

Education				
Key Findings	and Metrics			
Disposed	Diverted	Disposed	Diverted	Diversion
TPEPY	TPEPY	Tons	Tons	Rate
0.43	0.07	562,442	97,926	15%
Top Three Div	version Opportu	inities in Dispos	sed Stream	
<ul> <li>Food (34)</li> </ul>	4%, 189,957 ton:	s)		
Remain	der/Composite P	aper - Composta	able (13%, 71,73	80 tons)
<ul> <li>Other M</li> </ul>	iscellaneous Pap	per - Other (4%,	22,709 tons)	

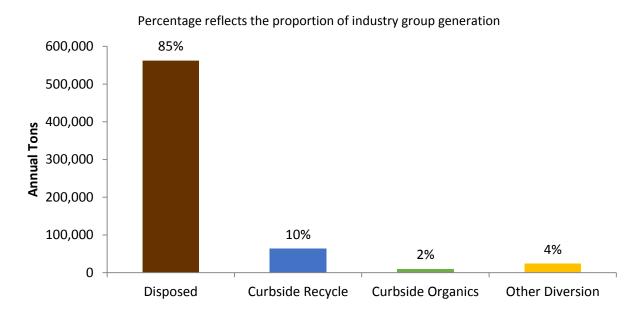
## Table 38. Key Findings and Metrics: Education

In addition to normalizing generation on a per employee basis (TPEPY), for this group the project team normalized generation by the number of students at each generator site. As shown in Table 39, Group 3 sites generated an estimated 3.67 tons per hundred students per year. The number of sites used in this calculation is noted in Table 98 in Appendix C: Description of Calculations.

# Table 39. Generation Rate Summary by Weight: Education (tons per 100 students per year)

Tons per 100 Students per Year	Disposed	Curbside Recycle	Curbside Organics	Other Diversion	Generation
Education	3.23	0.26	0.06	0.12	3.67

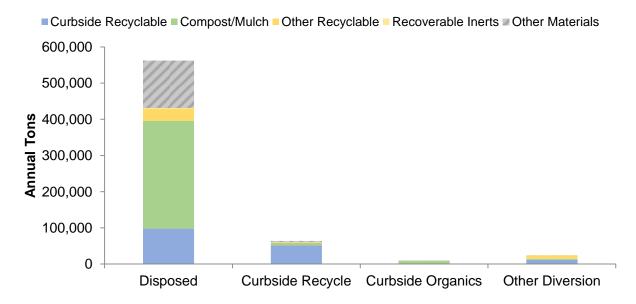
Figure 17 presents the annual tons for each stream in Group 3. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins, and materials diverted through other means such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination—materials not typically acceptable in those streams such as food in recycling bins or glass in organics bins. As shown, approximately 85 percent of total generation at Group 3 businesses went to the Disposed stream.



#### Figure 17. Annual Tons by Waste Stream: Education

Figure 18 breaks down the potential recoverability (by recoverability group) for each stream in Group 3. As shown, more than three-quarters of the Disposed stream was divertible, mostly **Compost/Mulch** materials.

The Group 3 Curbside Recycle contamination rate was 19 percent, and the Curbside Organics contamination rate was 4 percent.



### Figure 18. Recoverability by Stream: Education

Figure 19 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 19 illustrates, approximately 48 percent of total generation in Group 3 was material in the **Compost/Mulch** recoverability group, and approximately 25 percent was **Curbside Recyclable**. When combined, divertible materials accounted for roughly 80 percent of the Group 3 generation. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.

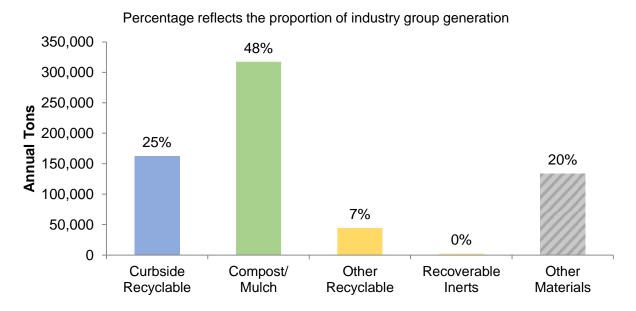


Figure 19. Recoverability of Materials Generated in the Education Sector

Table 40 presents detailed composition results for each stream in Group 3, as well as for the total group generation.

## Table 40. Composition Summary: Education

Uncessed Consigned Caraboard         1.2%         6.583         27.6%         1.1%         3.0%         2.0%         1.2%         6.354         2.2%         1.1%         3.0%         2.7%         4.1%         2.7%         4.1%         2.7%         4.1%         2.7%         4.1%         2.7%         4.1%         2.7%         4.1%         2.7%         4.1%         2.7%         4.3%         2.7%         4.1%         2.7%         4.3%         2.7%         4.1%         2.7%         4.3%         2.7%         4.3%         2.7%         4.3%         2.7%         4.3%         2.7%         4.3%         2.7%         4.3%         2.7%         4.3%         2.7%         4.2%         2.2%         4.2%         2.2%         4.2%         2.2%         4.2%         2.2%         4.2%         2.2%         4.2%         2.2%         4.2%         2.2%         4.2%         2.2%         4.2%         2.2%         4.2%         2.2%         4.2%         2.2%         4.2%         2.2%         4.2%         2.2%         4.2%         2.2%         3.3%         3.3%         0.0%         4.2%         4.2%         3.3%         3.3%         0.0%         3.3%         0.0%         3.3%         0.0%         0.0%         0.0%	Material	Disp Est. %	oosed Est. Tons	Curbsid Est. %	e Recycle Est. Tons	Curbside Est. %	e Organics Est. Tons	Other Est. %	Diversion Est. Tons	Total G Est. %	eneration Est. Tons
Paper Bag         0.3%         1.77         0.4%         214         0.0%         0         0.2%         1.51         0.3%         2.77           Magazine and Castoge         1.7%         0.3%         0.2%         1.3%         0.0%         0         0.2%         1.3%         0.0%         0         0.2%         1.3%         0.0%         0         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.2%         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%											249,502
everage if in the second sec											27,356
When isoger Paper         3.5%         11.822         22.4%         11.336         0.0%         0         8.5%         2.000         5.5%         4.60         5.5%         4.60         5.5%         4.60         5.5%         4.60         5.5%         4.60         5.5%         4.60         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         4.66         5.5%         6.66         5.5%         6.66         5.5%         6.66         5.5%         6.66         5.5%         6.66         5.5%         6.66         5.5%         6.66         5.5%         6.66         5.5%         6.66         5.5%         6.66         5.5%         6.66         5.5%<											2,144
Other Office Paper.         3.7%         20.70         0.5%         5565         0.0%         0         1.2%         4.49         4.2%         27.2           Other Missensensence Paper - Cherromito         1.0%         2.5%         3.3%         3.2%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1% <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>8,427 36,268</td></t<>											8,427 36,268
Magazane and Catalogs         11%         5.974         6.974         0.074         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.076         0.0         0.0         0.0         0.076         0.0<											27,806
Other Masselameous Pager - Composible         0.4%         2.005         6.5%         1.1%         7.7%         0.4%         9.20         6.5%         1.1%         7.7%         0.4%         9.25%         0.4%         9.25%         0.4%         9.25%         0.4%         9.25%         0.4%         9.25%         0.7%         0.4%         1.1%         7.7%         0.4%         1.1%         7.7%         0.4%         1.1%         7.7%         0.4%         1.1%         7.7%         0.4%         1.1%         7.7%         0.4%         1.1%         7.7%         0.4%         0.4%         2.2%         0.0%         0         0.2%         4.2         0.5%         0.2%         4.2         0.5%         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0% </td <td></td> <td>10,551</td>											10,551
Other Missellineous Pager - Online'         4.0%         22.208         7.0%         4.64         3.8%         3.75         0.4%         0.5%         2.2%         7.7.3%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0% <td>Phone Books and Directories</td> <td>0.0%</td> <td>0</td> <td>0.5%</td> <td>317</td> <td>0.0%</td> <td>0</td> <td>0.0%</td> <td>-</td> <td>0.0%</td> <td>317</td>	Phone Books and Directories	0.0%	0	0.5%	317	0.0%	0	0.0%	-	0.0%	317
Remainde/Composite Piger - Composite Piger											7,492
Remainder Composite Pager - Other         5.0%         2.2%         1.0%         1.01         0.0%         4         0.0%         10         4.4%         2.8%         3.3           Graw         Class bottes and Containers         0.0%         10         0.2%         100         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0% <td></td> <td>27,631</td>											27,631
Glass         0.5%         2.778         0.3%         219         0.0%         0         0.2%         42         0.3%         52.5           Class Glass Bottins and Containers         0.0%         133         0.2%         10         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0											72,201
Clear Glass Daties and Containers         0.4%         1.985         0.2%         100         0.0%         0         0.2%         40         0.3%         2.2           Glass Doutes and Containers         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%									-		29,309 <b>3,040</b>
Green Glass Bothes and Containers         0.0%         134         0.2%         103         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0											2,145
Other Class Colored Boths and Containers         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         <											237
Find Glass         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0 <td></td> <td>2</td>											2
Remainder/Composite Glass         0.1%         649         0.0%         7         0.0%         0         0.0%         0         0.1%         0           TimStel Carle         0.4%         2.33         0.4%         60         0.0%         0         3.5%         18.36         0.5%         3.3           Used OF Flams         0.4%         2.245         0.1%         64         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%					-						0
Metal         1.6%         9,12         0.9%         601         0.0%         0         2.2%         19,2           More Appliances         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%					-						0
Timitsen         0.4%         2.38         0.1%         66         0.0%         0         3.5%         6.38         0.0%         0           Major Applications         0.0%         4         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0% <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td>656</td>							-		-		656
Maior Appliances         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0         0         0.0%         0<											1 <b>9,76</b> 1 3,285
Usied Di Filters         0.0%         64         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         1.399         0.4%         1.24         0.0%         0         0.0%         0         0.0%         1.399         0.4%         1.22         0.0%         0         0.0%         0         0.0%         1.23         0.0%         1.23         0.0%         1.23         0.0%         1.23         0.0%         1.23         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0											3,205
Other Farcus         0.4%         2.245         0.1%         54         0.0%         0         32.4%         7.806         1.5%         10.0%           Other Anon-Ferrous         0.2%         12.28         0.0%         0         0.0%         0         0.4%         87         0.2%         12.28           Commander: Composite Metal         0.0%         10         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0 </td <td></td> <td>84</td>											84
Other Formus         0.2%         1.28         0.0%         0         0.4%         87         0.2%         1.28           Remainder/Composite Metal         0.4%         2.211         0.0%         10         0.0%         0         0.4%         2.211         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0					54						10,106
Remainder/Composite Metal         0.4%         2.211         0.0%         10         0.0%         0         0.%         0         0.3%         2.2           Berron Goods         0.0%         188         0.0%         10         0.0%         0         0.0%         0         0.0%         20         0.0%         20         0.0%         20         0.0%         20         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0			924						1,399	0.4%	2,694
Electronics         0.0%         269         1.8%         1.123         0.0%         0         5.1%         1.235         0.4%         5.2%           Brown Good         0.0%         102         1.8%         1.123         0.0%         0         3.3%         798         0.3%         2.2           Computer-related Electronics         0.0%         100         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0					-						1,372
Brown Goods         0.0%         168         0.0%         0         0.0%         0         0.0%         0         0.0%         0           Computer Fieldetronics         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0% </td <td></td> <td>2,221</td>											2,221
Computer-related Electronics         0.0%         102         1.8%         1.123         0.0%         0         3.3%         798         0.3%         2.4           Other Small Consumer Electronics         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%							-				2,628
Other Small Consumer Electronics         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%<					-						168 2,023
Video Display Devices         0.0%         0         0.0%         0         1.8%         4.37         0.1%         4.7           PETE Plastic Containers         0.7%         4.108         2.4%         1.541         0.0%         0         1.8%         3.377         1.4%         64.4           PETE Plastic Containers         0.3%         1.513         0.0%         1         0.0%         0         0.3%         1.2%         64.4         0.0%         0         0.0%         0         0.3%         1.2%         64.4         0.0%         0         0.0%         0         0.4%         2.2%         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0<											2,023
Plastic         13.1%         73.77         6.4%         4.107         0.2%         18         16.5%         3.72         12.4%         81.1           PETE Plastic Containers         0.3%         1.513         0.0%         31         0.0%         0         0.5%         3.76         1.4%         8.9           HDEP Plastic Containers         0.3%         1.513         0.0%         31         0.0%         0         0.0%         1.4%         8.9           Moreal Plastic Containers         0.3%         1.513         0.0%         21         0.0%         0         0.0%         0         0.0%         0         0.0%         1.4%         8.9         0.0%         1.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.1%         1.1         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0 </td <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>437</td>					-						437
HOPE Plastic Containers         0.3%         1.513         0.0%         0         0.8%         204         0.3%         1.733           Miscellaneous Plastic Containers         0.4%         2.06         0.7%         411         0.2%         18         0.0%         0         0.8%         1.2%           Plastic Group and Other Merchandise Bags         0.2%         882         0.0%         0         0.0%         0         0.0%         0         0.1%         2.2%           Plastic Group and Other Merchandise Bags         0.2%         832         0.0%         0         0.0%         0         0.0%         0         0.1%         2.2           Plastic Group and Other Merchandise Bags         0.1%         7.83         0.1%         5.2         0.0%         0         0.0%         0         0.1%         1.2%           Durable Plastic Items - 2 and #5 Bulky Rigids         0.1%         2.20%         0.4%         3.10         0.3%         1.17         0.0%         0         0.1%         0.0%         0         0.1%         0.0%         0         0.1%         0.0%         0         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         0.1%         <					4,107						81,814
Miscellaneous Plastic Containers         0.4%         2.006         0.7%         441         0.2%         18         0.0%         1         0.4%         2.2%           Plastic Transh Bags         3.2%         18.2         0.0%         27         0.0%         0         0.0%         0         0.1%         15.7           Non-Bag Commercial and Industrial Packaging Film         0.1%         78         0.0%         0         0.4%         22         0.0%         0         0.0%         0         0.1%         52         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0% <td>PETE Plastic Containers</td> <td>0.7%</td> <td>4,108</td> <td>2.4%</td> <td>1,541</td> <td>0.0%</td> <td>0</td> <td>15.6%</td> <td>3,767</td> <td>1.4%</td> <td>9,416</td>	PETE Plastic Containers	0.7%	4,108	2.4%	1,541	0.0%	0	15.6%	3,767	1.4%	9,416
Plastic Grosen and Other Merchandse Bags         0.2%         18.121         0.0%         23         0.0%         0         0.0%         0         2.7%         18.121           Plastic Grosen and Other Merchandse Bags         0.2%         88.2         0.0%         0         0.0%         0         0.0%         0         0.1%         52           Non-Bag Commercial and Industrial Packaging Film         0.1%         783         0.1%         52         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%					-						1,748
Plastic Grocery and Other Merchandse Bags         0.2%         892         0.0%         23         0.0%         0         0.0%         0         0.1%         52           Non-Bag Commercial and Industrial Packaging Film         0.0%         0         0.4%         222         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0											2,465
Non-Bag Commercial and Industrial Packaging Film         0.1%         783         0.1%         52         0.0%         0         0.0%         0         0.1%         52           Other Film - Other         2.0%         10.991         1.2%         767         0.0%         0         0.0%         0         1.8%         11,1           Durable Plastic Items - 2 and #5 Bulky Rigids         0.3%         200         0.3%         200         0.0%         0         0.0%         0         0.8%         5,1           Remainder/Composite Plastic         5.3%         30.01         0.3%         174         0.0%         0         0.0%         0         0.8%         5,5           Food         33.8%         189.97         0.4%         2.25         75.9%         7,52         2.0%         465         3.0.0%         16.3         2.2%         1.45%         2.1%         465         3.0.0%         10.8%         5,5         Branches and Stamps         1.2%         6.479         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0											18,147
Film Products         0.0%         0         0.4%         252         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%											915 835
Other Pilm - Other         2.0%         10.991         1.2%         767         0.0%         0         0.0%         0         1.8%         11.7           Durable Plastic Items - 2 and #B Bulky Rigids         0.3%         30.3%         200         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.8%         55           Brancher Composite Plastic Items - 2 and #B Bulky Rigids         0.3%         1270         83.9%         199.937         6.0%         1.45%         43.1%         284.4           Food         33.8%         189.957         0.4%         2.2109         0.0%         0         9.0%         893         4.0%         9.07         1.8%         13.2%         13.8%         129.3%         1.8%         13.2%         13.8%         129.3%         13.8%         129.3%         13.6%         13.8%         129.3%         13.6%         13.8%         13.9%         13.6%         13.8%         129.3%         15.5%         13.6%         13.8%         129.3%         15.5%         15.5%         15.5%         15.5%         15.6%         13.6%         10.6%         0.0%         0         0.0%         0         0.0%         0.0%         0.0%											252
Durable Plasitic Items - #2 and #5 Euliky Rigids         0.1%         320         0.9%         4.5%         0.3%         0.0%         0         0.0%         0         0.0%         0         0.8%         5.5           Remainder/Composite Plastic         5.3%         30.031         0.3%         174         0.0%         0         0.0%         0         0.8%         4.5%           Cother Organic         48.1%         270.6%         4.9%         3.10%         9.30%         9.20%         4.85         30.0%         14.85         30.0%         14.85         30.0%         14.85         30.0%         14.85         30.0%         12.3%         4.1%         22.0%         4.85         30.0%         12.3%         5.75.9%         7.521         2.0%         4.85         30.0%         12.3%         5.23%         75.9%         7.521         2.0%         4.85         30.0%         12.3%         55.55         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0			-								11,759
Remainder/Composite Plastic         5.3%         30.031         0.3%         174         0.0%         0         0.0%         1.4.6%         33.0%           Other Organic         33.8%         189.957         0.4%         325         75.9%         7.521         2.0%         445         30.0%         198.1           Leaves and Grass         33.8%         189.957         0.4%         2.715         9.0%         883         4.0%         971         3.6%         23.3           Prunings and Trimmings         0.3%         1.663         4.2%         2.715         9.0%         883         0.0%         0         1.6%         10.0%         6.0           Manures         0.0%         0         0.0%         0         0.0%         0         0.0%         0         1.6%         10.0           Carpet         3.0%         16,788         0.0%         0         0.0%         0         0.0%         0         2.5%         16.0           Concrete         2.8%         15.923         0.4%         249         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>914</td></td<>											914
Other Organic         48.1%         270.685         4.9%         3.105         93.97         6.0%         1.4.55         43.1%         28.44           Food         3.9%         19.957         0.0%         235         7.574         2.2%         6.0%         9.0%         893         4.0%         971         3.6%         20.3%         1.863         4.2%         2.715         9.0%         893         4.0%         971         3.6%         22.3%           Branches and Stumps         1.2%         6.479         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0% <td></td> <td>5,158</td>											5,158
Food         33.8%         189.957         0.4%         255         7.5%         7.521         2.0%         4455         30.0%         198.7           Leaves and Grass         3.3%         12.09         0.0%         0         9.0%         893         4.0%         971         3.6%         22.3           Prunings and Timmings         0.3%         1.6%         4.2%         2.715         9.0%         893         0.0%         0         0.8%         5.5           Branches and Stumps         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0											30,205
Leaves and Grass         3.9%         22.109         0.0%         0         9.0%         933         4.0%         971         3.6%         23.5           Branches and Stumps         0.3%         1.63         4.2%         2.715         9.0%         893         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td>284,563</td>							,				284,563
Prunings and Timmings         0.3%         1.683         4.2%         2.715         9.0%         983         0.0%         0         0.8%         5.5           Branches and Stumps         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0											198,197
Branches and Stumps         1.2%         6.479         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%											5,271
Manures         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         2.5%         15,23         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0 <td></td> <td>6,479</td>											6,479
Carpet Remainder/Composite Organic         3.0%         16,788         0.0%         0         0.0%         0         0.0%         0         2.5%         16,7           Inerts and Other         2.8%         15,923         0.4%         249         0.0%         0         0.0%         0         0.0%         0         2.4%         15,123           Concrete         0.2%         1,219         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.2%         1,219           Asphalt Paving         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0					0						0
Remainder/Composite Organic         4.1%         23.150         0.2%         155         0.0%         0         0.0%         0         3.5%         23.3           Inerts and Other         2.8%         15.923         0.4%         249         0.0%         0         0.0%         0         0.0%         0         2.4%         16.1           Concrete         0.2%         1.219         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%	Textiles	1.9%	10,550	0.0%	0	0.0%	0	0.0%	0	1.6%	10,550
Inerts and Other         2.8%         15.923         0.4%         249         0.0%         0         0.0%         0         2.4%         16.12           Concrete         0.2%         1,219         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.		3.0%			-						16,788
Concrete         0.2%         1,219         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0 </td <td></td> <td>23,305</td>											23,305
Asphalt Paving         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0											16,172
Asphalt Roofing         0.0%         106         0.0%         0         0.0%         0         0.0%         0           Clean Dimensional Lumber         0.1%         661         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.1%         689         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0					-						1,219 0
Clean Dimensional Lumber         0.1%         561         0.0%         0         0.0%         0         0.0%         0         0.1%         561           Clean Figineerd Wood         0.1%         689         0.0%         0         0.0%         0         0.0%         0         0.1%         62           Clean Figineerd Wood         0.1%         62398         0.0%         0         0.0%         0         0.0%         0         0.1%         22           Other Wood Waste         1.3%         7,516         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0			-		-						106
Clean Engineered Wood       0.1%       689       0.0%       0       0.0%       0       0.0%       0       0.1%       68         Clean Pailets & Crates       0.4%       2,398       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0					-						561
Other Wood Waste         1.3%         7,516         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%		0.1%	689		0	0.0%	0	0.0%	0	0.1%	689
Gypsum Board         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0 </td <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2,398</td>					-						2,398
Rock, Soil and Fines       0.2%       1,095       0.0%       0       0.0%       0       0.0%       0       0.2%       1,095         Remainder/Composite Inerts and Other       0.4%       2,2%       1,268       0.0%       0       0.0%       0       0.0%       0       0.4%       2,2%         Household Hazardous Waste       0.2%       1,268       0.0%       0       0.0%       0       0.1%       32       0.2%       1,32         Paint       0.0%       62       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0 <td></td> <td>7,516</td>											7,516
Remainder/Composite Inerts and Other         0.4%         2,339         0.4%         249         0.0%         0         0.0%         0         0.4%         2,539           Household Hazardous Waste         0.2%         1,28         0.0%         0         0.0%         0         0.1%         32         0.2%         1,33           Paint         0.0%         62         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.											0
Household Hazardous Waste       0.2%       1,268       0.0%       0       0.0%       0       0.1%       32       0.2%       1,3         Paint       0.0%       62       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.											1,095 2,588
Paint       0.0%       62       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0											2,588 <b>1,300</b>
Vehicle and Equipment Fluids         0.0%         102         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0% <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>62</td>					-						62
Used Oil       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0					-						102
Remainder/Composite Household Hazardous         0.2%         1,030         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0	Used Oil						0				0
Special Waste         0.0%         185         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%											106
Ash         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0											1,030
Treated Medical Waste       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%       0       0.0%					-		-				185
Bulky Items         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         10.0%         0         0.0%         10.0%         10.0%         0         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         10         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0% <t< td=""><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>0 0</td></t<>					-						0 0
Tires         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0											0
Remainder/Composite Special Waste         0.0%         185         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         0         0.0%         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2					-						0
Mixed Residue         0.2%         1,404         0.0%         0         0.0%         0         0.2%         1,4           Totals         100.0%         562,442         100.0%         63,891         100.0%         9,909         100.0%         24,127         100.0%         660,3           Streams Sampled         51         24         3         39         117					-						185
Totals         100.0%         562,442         100.0%         63,891         100.0%         9,909         100.0%         24,127         100.0%         660,5           Streams Sampled         51         24         3         39         117					-						1,404
Streams Sampled 51 24 3 39 117	Tatala	100.00/		100.0%	62 004	100.00/	0.000	100.00/	24 4 07	100.00/	
						100.0%	,		-		660,368
TPEPY 0.43 0.05 0.01 0.02 <b>0.50</b>						, r					

Percentages for material types may not total 100% due to rounding. Tables detailing the composition for all 82 materials can be found in Appendix E: Detailed Composition Tables

# Findings for Hotels & Lodging

Table 41 presents key findings for the Hotels & Lodging industry group (Group 4). Statewide, Group 4 disposed of more than 384,000 tons and diverted nearly 94,000 tons. Total generation was approximately 2.14 TPEPY. *Food* was the most prevalent divertible material type in the Group 4 Disposed stream, accounting for 32 percent of disposal. Hotels & Lodging had the fewest employees among the industry groups studied.

Hotels & Lo	odging									
Key Findings and Metrics										
Disposed	Disposed Diverted Disposed Diverted Diversion									
TPEPY	TPEPY	Y Tons Tons Rate								
1.72	1.72 0.42 384,327 93,712 20%									
		inities in Dispos	sed Stream							
<ul> <li>Food (32)</li> </ul>	2%, 123,483 ton	s)								
<ul> <li>Remain</li> </ul>	der/Composite P	aper - Composta	able (9%, 34,549	tons)						
<ul> <li>Other M</li> </ul>	iscellaneous Pap	per - Other (3%,	10,188 tons)							

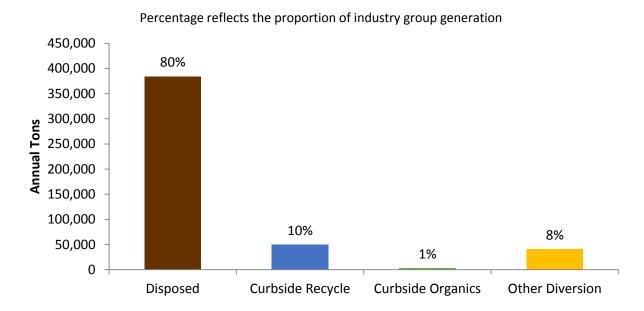
Table 41. Key Findings and Metrics: Hotels & Lodging

In addition to normalizing generation on a per employee basis (TPEPY), the project team normalized generation by the number of guest rooms at each generator site. As shown in Table 42, Group 4 businesses generated an estimated 1.31 tons per guest room per year. The number of sites used in this calculation is noted in Table 98 in Appendix C: Description of Calculations.

# Table 42. Generation Rate Summary by Weight: Hotels & Lodging (tons per guest room per year)

Tons per Guest Room per Year	Disposed	Curbside Recycle	Curbside Organics	Other Diversion	Generation
Hotels & Lodging	0.94	0.17	0.01	0.18	1.31

Figure 20 presents the annual tons for each stream in Group 4. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins, and materials diverted through other means such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination—materials not typically acceptable in those streams such as food in recycling bins or glass in organics bins. As shown, approximately 80 percent of total generation at Group 4 businesses went to the Disposed stream.



#### Figure 20. Annual Tons by Waste Stream: Hotels & Lodging

Each stream was composed of many different material types, and each of those material types was assigned to one of the five recoverability groups. Table 95 in Appendix B: Material Definitions details the assignment of material types to recoverability groups. Figure 21 breaks down the potential recoverability (by recoverability group) for each stream in Group 4. As shown, more than three-quarters of the Disposed stream was divertible, mostly **Compost/Mulch** materials.

The Group 4 Curbside Recycle contamination rate was 43 percent, largely due to pallets and crates in the recycling bins. No contamination was observed in the Curbside Organics stream.

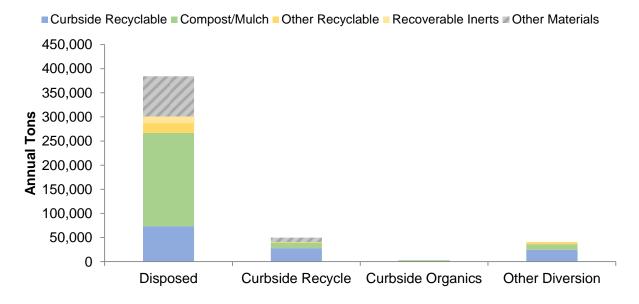




Figure 22 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 22 illustrates, approximately 46 percent of total generation in Group 4 was material in the **Compost/Mulch** recoverability group, and approximately 27 percent was **Curbside Recyclable**. When combined, divertible materials accounted for roughly 81 percent of the Group 4 generation. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.

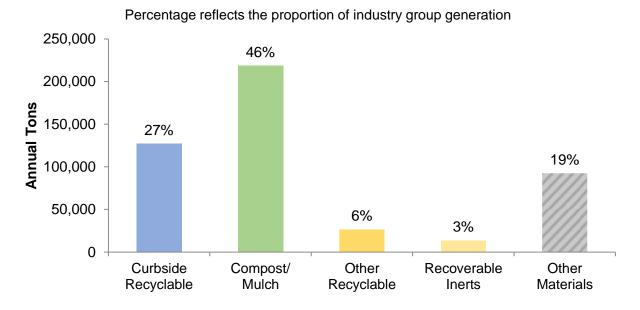


Figure 22. Recoverability of Materials Generated in the Hotels & Lodging Sector

Table 43 presents detailed composition results for each stream in Group 4, as well as for the total group generation.

## Table 43. Composition Summary: Hotels & Lodging

Material	Disp Est. %	osed Est. Tons	Curbside Est. %	e Recycle Est. Tons	Est. %	e Organics Est. Tons	Other I Est. %	Diversion Est. Tons	Total G Est. %	eneration Est. Tons
Paper	22.3%	85,791	49.2%	24,543	0.0%	0	31.3%	12,689	25.7%	123,023
Uncoated Corrugated Cardboard	2.0%	7,538	29.5%	14,729	0.0%	0	30.5%	12,347	7.2%	34,614
Paper Bags	0.5%	1,815	0.4%	189	0.0%	0	0.0%	0	0.4%	2,005
Newspaper	2.6%	10,001	4.4%	2,190	0.0%	0	0.0%	0	2.6%	12,191
White Ledger Paper	0.9%	3,596	1.6%	779	0.0%	0	0.0%	0	0.9%	4,375
Other Office Paper	0.9%	3,463	3.5%	1,725	0.0%	0	0.0%	0	1.1%	5,188
Magazines and Catalogs Phone Books and Directories	0.6% 0.1%	2,287 291	3.5% 0.0%	1,762 0	0.0% 0.0%	0	0.0% 0.0%	0	0.8% 0.1%	4,049 291
Other Miscellaneous Paper - Compostable	0.1%	3,106	1.2%	596	0.0%	0	0.0%	0	0.1%	3,701
Other Miscellaneous Paper - Other	2.7%	10,188	2.7%	1,331	0.0%	0	0.0%	0	2.4%	11,519
Remainder/Composite Paper - Compostable	9.0%	34,549	0.8%	412	0.0%	ő	0.8%	342	7.4%	35,303
Remainder/Composite Paper - Other	2.3%	8,957	1.7%	831	0.0%	Ő	0.0%	0	2.0%	9,788
Glass	6.7%	25,897	7.9%	3,932	0.0%	0	25.1%	10,148	8.4%	39,978
Clear Glass Bottles and Containers	1.9%	7,378	2.5%	1,272	0.0%	0	22.5%	9,091	3.7%	17,741
Green Glass Bottles and Containers	2.4%	9,318	3.2%	1,615	0.0%	0	0.2%	86	2.3%	11,019
Brown Glass Bottles and Containers	1.1%	4,235	2.1%	1,040	0.0%	0	2.4%	971	1.3%	6,245
Other Glass Colored Bottles and Containers	0.1%	328	0.0%	0	0.0%	0	0.0%	0	0.1%	328
Flat Glass	0.4%	1,657	0.0%	6	0.0%	0	0.0%	0	0.3%	1,663
Remainder/Composite Glass	0.8%	2,981	0.0%	0	0.0%	0	0.0%	0	0.6%	2,981
Metal	4.1%	15,621	2.1%	1,032	0.0%	0	10.3%	4,168	4.4%	20,821
Tin/Steel Cans	1.1%	4,138	0.2%	91	0.0%	0	0.0%	0	0.9%	4,229
Major Appliances	0.6%	2,188	0.0%	0	0.0%	0	0.0%	0	0.5%	2,188
Used Oil Filters Other Ferrous	0.0%	0 2 012	0.0%	0 666	0.0% 0.0%	0 0	0.0% 8.2%	0 3 307	0.0% 1.3%	0 5 985
Other Ferrous Aluminum Cans	0.5% 0.3%	2,012 1,241	1.3% 0.2%	666 87	0.0%	0	8.2% 2.1%	3,307 858	0.5%	5,985 2,187
Other Non-Ferrous	0.3%	1,241	0.2%	87 165	0.0%	0	2.1%	858 0	0.5%	2,187
Remainder/Composite Metal	1.1%	4,329	0.3%	23	0.0%	0	0.0%	3	0.4%	4,355
Electronics	0.0%	-,523	0.0%	25	0.0%	ŏ	2.3%	915	0.3%	1,003
Brown Goods	0.0%	0	0.0%	25	0.0%	0	0.0%	313	0.0%	3
Computer-related Electronics	0.0%	25	0.0%	0	0.0%	0	2.2%	889	0.2%	915
Other Small Consumer Electronics	0.0%	38	0.0%	25	0.0%	0	0.0%	0	0.0%	63
Video Display Devices	0.0%	0	0.0%	0	0.0%	0	0.1%	23	0.0%	23
Plastic	11.2%	43,226	11.5%	5,753	0.0%	0	3.6%	1,454	10.6%	50,434
PETE Plastic Containers	1.0%	3,873	1.5%	745	0.0%	0	3.2%	1,300	1.2%	5,918
HDPE Plastic Containers	0.7%	2,625	1.3%	635	0.0%	0	0.2%	74	0.7%	3,335
Miscellaneous Plastic Containers	0.4%	1,465	0.2%	107	0.0%	0	0.2%	80	0.3%	1,652
Plastic Trash Bags	2.8%	10,766	0.7%	364	0.0%	0	0.0%	0	2.3%	11,130
Plastic Grocery and Other Merchandise Bags	0.3%	1,196	0.1%	44	0.0%	0	0.0%	0	0.3%	1,239
Non-Bag Commercial and Industrial Packaging Film	0.1%	272	0.1%	37	0.0%	0	0.0%	0	0.1%	309
Film Products	0.0%	49	0.0%	8	0.0%	0	0.0%	0	0.0%	56
Other Film - Other	1.7%	6,637	3.8%	1,890	0.0%	0	0.0%	0	1.8%	8,528
Durable Plastic Items - #2 and #5 Bulky Rigids	0.3%	1,104	0.7%	374	0.0%	0	0.0%	0	0.3%	1,478
Durable Plastic Items - Other	0.4%	1,694	2.1%	1,051	0.0%	0	0.0%	0	0.6%	2,745
Remainder/Composite Plastic	3.5% 45.5%	13,546	1.0% <b>5.4%</b>	498 2,700	0.0% 100.0%	0 3,293	0.0% <b>27.1%</b>	10,981	2.9% <b>40.1%</b>	14,044 <b>191,867</b>
Other Organic Food	<b>45.5%</b> 32.1%	<b>174,892</b> 123,483	5.2%	2,605	54.0%	<b>3,293</b> 1,780	13.6%	5,496	27.9%	133,363
Leaves and Grass	2.1%	8,042	0.0%	2,005	25.0%	822	0.0%	3,490 0	1.9%	8,865
Prunings and Trimmings	2.1%	8,248	0.0%	0	21.0%	691	12.7%	5,136	2.9%	14,075
Branches and Stumps	1.7%	6,635	0.0%	Ő	0.0%	0	0.0%	0,100	1.4%	6,635
Manures	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Textiles	2.6%	9,941	0.2%	96	0.0%	0	0.9%	350	2.2%	10,387
Carpet	0.5%	1,909	0.0%	0	0.0%	0	0.0%	0	0.4%	1,909
Remainder/Composite Organic	4.3%	16,634	0.0%	0	0.0%	0	0.0%	0	3.5%	16,634
Inerts and Other	8.5%	32,718	23.8%	11,897	0.0%	0	0.0%	0	9.3%	44,615
Concrete	0.2%	656	0.0%	0	0.0%	0	0.0%	0	0.1%	656
Asphalt Paving	1.7%	6,692	0.0%	0	0.0%	0	0.0%	0	1.4%	6,692
Asphalt Roofing	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Clean Dimensional Lumber	0.1%	264	0.6%	286	0.0%	0	0.0%	0	0.1%	551
Clean Engineered Wood	0.1%	376	0.0%	0	0.0%	0	0.0%	0	0.1%	376
Clean Pallets & Crates	2.2%	8,476	14.5%	7,230	0.0%	0	0.0%	0	3.3%	15,706
Other Wood Waste	1.1%	4,225	0.0%	0	0.0%	0	0.0%	0	0.9%	4,225
Gypsum Board Rock, Soil and Fines	1.4%	5,542	0.0%	0	0.0%	0	0.0%	0	1.2%	5,542
	0.2%	635 5 852	0.0%	0 4 291	0.0%	0	0.0%	0	0.1%	635
Remainder/Composite Inerts and Other Household Hazardous Waste	1.5% <b>0.1%</b>	5,852 <b>207</b>	8.8% <b>0.0%</b>	4,381 6	0.0% <b>0.0%</b>	0 0	0.0% <b>0.2%</b>	0 73	2.1% <b>0.1%</b>	10,233 <b>286</b>
Paint	0.1%	<b>207</b> 46	0.0%	<b>0</b>	0.0%	0	0.2%	/3 0	0.1%	<b>280</b> 46
Vehicle and Equipment Fluids	0.0%	40	0.0%	0	0.0%	0	0.0%	0	0.0%	40
Used Oil	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Batteries	0.0%	40	0.0%	1	0.0%	0	0.0%	73	0.0%	114
Remainder/Composite Household Hazardous	0.0%	115	0.0%	5	0.0%	0	0.2%	0	0.0%	120
Special Waste	1.1%	4,362	0.1%	40	0.0%	ŏ	0.0%	ŏ	0.9%	4,402
Ash	0.8%	2,926	0.0%	0	0.0%	0	0.0%	0	0.6%	2,926
Treated Medical Waste	0.0%	_,0	0.0%	0	0.0%	0	0.0%	0	0.0%	_,0
Bulky Items	0.4%	1,407	0.0%	0	0.0%	0	0.0%	0	0.3%	1,407
Tires	0.0%	0	0.1%	40	0.0%	0	0.0%	0	0.0%	40
Remainder/Composite Special Waste	0.0%	29	0.0%	0	0.0%	0	0.0%	0	0.0%	29
Mixed Residue	0.4%	1,550	0.0%	0	0.0%	0	0.1%	60	0.3%	1,610
Totals	100.0%	201 227	100.0%	40 020	100.0%	2 202	100.0%	40,489	100.0%	170 020
Streams Sampled	100.0%	384,327		<b>49,930</b>	100.0%	<b>3,293</b>		<b>40,489</b> 41		478,039 18
						0		<b>T</b> 1		10

Percentages for material types may not total 100% due to rounding. Tables detailing the composition for all 82 materials can be found in Appendix E: Detailed Composition Tables

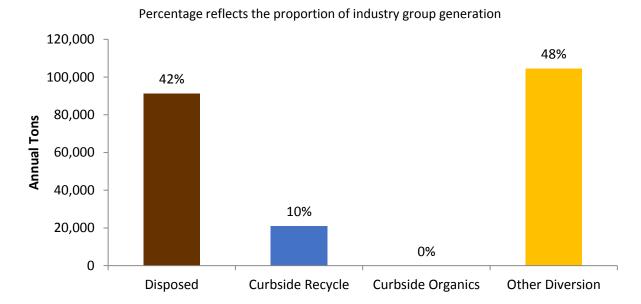
# Findings for Manufacturing – Electronic Equipment

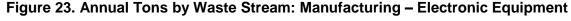
Table 44 presents key findings for the Manufacturing – Electronic Equipment industry group (Group 5). This group includes businesses manufacturing physical goods such as computers, radios, computing and memory chips, transformers, electrical appliances, and batteries, but it does not include software developers. Statewide, Group 5 disposed of more than 91,000 tons and diverted nearly 126,000 tons for a total generation rate of approximately 0.75 TPEPY. By weight, Group 5 accounted for less than 1 percent of the overall commercial sector generation, making it the smallest group (by generation) in the state. *Remainder/composite paper – compostable* was the most prevalent divertible material type in the Disposed stream at 13 percent of disposal. Manufacturing – Electronic Equipment had the least dense Disposed stream, approximately 70 pounds per cubic yard. This correlates with the qualitative observations by the field crew that many of these businesses had primarily plastic film and Styrofoam packing materials in their waste bins.

Manufactur	ing - Electro	onic Equipm	ent								
Key Findings	and Metrics										
Disposed											
TPEPY	TPEPY	Tons Tons Ra									
0.31	0.31 0.43 91,265 125,666 58%										
Top Three Div	version Opportu	nities in Dispos	sed Stream								
• Food (1 <sup>-</sup>	1%, 10,310 tons)	<ul> <li>Top Three Diversion Opportunities in Disposed Stream</li> <li>Remainder/Composite Paper - Compostable (13%, 11,945 tons)</li> <li>Food (11%, 10,310 tons)</li> <li>Clean Pallets &amp; Crates (11%, 9,598 tons)</li> </ul>									

Table 44. Key Findings and Metrics	: Manufacturing – Electronic Equipment
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Figure 23 presents the annual tons for each stream in Group 5. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins, and materials diverted through other means such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination—materials not typically acceptable in those streams such as food in recycling bins or glass in organics bins. Nearly half (48 percent) of Group 5 generation can be attributed to the Other Diversion stream. Group 5 generators sell large quantities of scrap metal directly to recyclers.





Each stream was composed of many different material types, and each of those material types was assigned to one of the five recoverability groups. Table 95 in Appendix B: Material Definitions details the assignment of material types to recoverability groups. Figure 24 breaks down the potential recoverability (by recoverability group) for each stream in Group 5. As shown, **Compost/Mulch** materials were the largest fraction in the Disposed stream, and Other Recyclable materials (including scrap metal) was the largest part of the Other Diversion stream.

The Group 5 Curbside Recycle contamination rate was 10 percent. The study did not include any sites from this group with Curbside Organics.

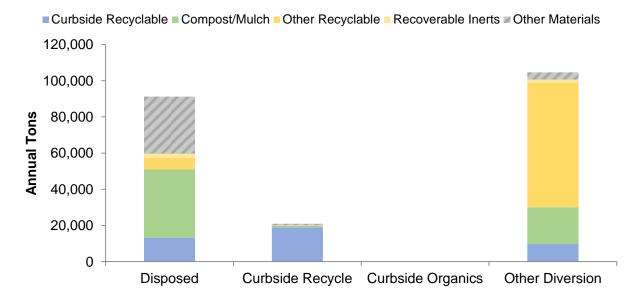




Figure 25 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 25 illustrates, approximately 35 percent of total generation in Group 5 was material in the **Other Recyclable** recoverability group, and approximately 27 percent was **Compost/Mulch**. When combined, divertible materials accounted for roughly 83 percent of the Group 5 generation. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.

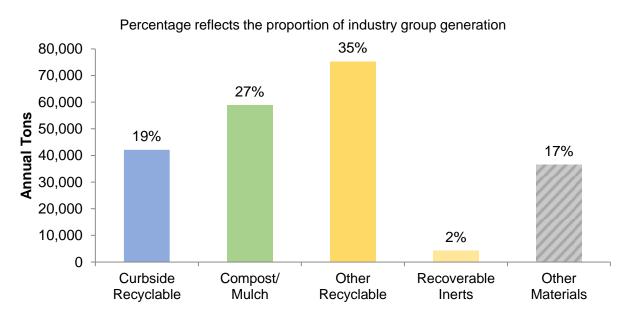


Figure 25. Recoverability of Materials Generated in the Manufacturing – Electronic Equipment Sector

Table 45 presents detailed composition results for each stream in Group 5, as well as for the total group generation.

## Table 45. Composition Summary: Manufacturing – Electronic Equipment

Material	Disp Est. %	<b>osed</b> Est. Tons	Curbside Est. %	Est. Tons	Curbside Est. %	<b>Organics</b> Est. Tons	Other D Est. %	iversion Est. Tons	Total Ge Est. %	neration Est. Tons
Paper	30.1%	27,438	93.8%	19,709	-	-	6.8%	7,071	25.0%	54,218
Uncoated Corrugated Cardboard	3.2%	2,928	81.8%	17,203	-	-	5.2%	5,415	11.8%	25,546
Paper Bags	0.3% 1.6%	251 1,415	2.1% 0.1%	451 24	-	-	0.0% 0.2%	36 231	0.3% 0.8%	739
Newspaper White Ledger Paper	2.4%	2,214	1.7%	24 347	-	-	0.2%	331	1.3%	1,670 2,892
Other Office Paper	1.8%	1,661	2.3%	476		-	0.3%	307	1.1%	2,092
Magazines and Catalogs	0.7%	670	0.7%	138	-	-	0.1%	106	0.4%	914
Phone Books and Directories	0.0%	14	0.0%	0	-	-	0.0%	0	0.0%	14
Other Miscellaneous Paper - Compostable	0.9%	819	2.8%	597	-	-	0.0%	4	0.7%	1,419
Other Miscellaneous Paper - Other	2.9%	2,679	0.8%	164	-	-	0.4%	415	1.5%	3,258
Remainder/Composite Paper - Compostable	13.1%	11,945	0.8%	166	-	-	0.2%	225	5.7%	12,336
Remainder/Composite Paper - Other	3.1%	2,841	0.7%	143	-	-	0.0%	1	1.4%	2,985
Glass	0.3%	261	0.3%	58	-	-	0.1%	77	0.2%	396
Clear Glass Bottles and Containers	0.2%	204	0.0%	5	-	-	0.1%	70	0.1%	279
Green Glass Bottles and Containers Brown Glass Bottles and Containers	0.0%	5	0.1%	30	-	-	0.0%	0 7	0.0%	35
Other Glass Colored Bottles and Containers	0.0% 0.0%	4	0.1% 0.0%	24 0	-	-	0.0% 0.0%	0	0.0% 0.0%	35 8
Flat Glass	0.0%	0	0.0%	0		-	0.0%	0	0.0%	0
Remainder/Composite Glass	0.0%	40	0.0%	0	-	-	0.0%	0	0.0%	40
Metal	3.8%	3,458	0.1%	24	-	-	65.0%	68,050	33.0%	71,533
Tin/Steel Cans	0.2%	138	0.0%	5	-	-	0.1%	85	0.1%	227
Major Appliances	0.0%	0	0.0%	0	-	-	0.0%	0	0.0%	0
Used Oil Filters	0.0%	9	0.0%	Ő	-	-	0.0%	Ő	0.0%	9
Other Ferrous	0.8%	689	0.0%	3	-	-	29.4%	30,726	14.5%	31,418
Aluminum Cans	0.1%	117	0.0%	2	-	-	0.0%	42	0.1%	161
Other Non-Ferrous	1.4%	1,235	0.0%	1	-	-	35.4%	37,072	17.7%	38,307
Remainder/Composite Metal	1.4%	1,271	0.1%	13	-	-	0.1%	125	0.6%	1,410
Electronics	1.5%	1,381	0.0%	0	-	-	2.5%	2,633	1.9%	4,014
Brown Goods	1.2%	1,115	0.0%	0	-	-	1.6%	1,627	1.3%	2,742
Computer-related Electronics	0.2%	176	0.0%	0	-	-	0.7%	689	0.4%	866
Other Small Consumer Electronics	0.0%	8	0.0%	0	-	-	0.0%	20	0.0%	28
Video Display Devices	0.1%	81	0.0%	0	-	-	0.3%	296	0.2%	378
Plastic	18.8%	17,115	5.6%	1,184	-	-	4.2%	4,348	10.4%	22,647
PETE Plastic Containers	0.2%	217	0.4%	87	-	-	0.0%	47	0.2%	351
HDPE Plastic Containers	0.3%	311	0.1%	26	-	-	0.0%	37	0.2%	375
Miscellaneous Plastic Containers	0.5%	457	0.2%	36	-	-	2.6%	2,677	1.5%	3,170
Plastic Trash Bags	2.3% 0.1%	2,136 98	0.1% 0.0%	29 3	-	-	0.0% 0.0%	12 0	1.0% 0.0%	2,177 101
Plastic Grocery and Other Merchandise Bags Non-Bag Commercial and Industrial Packaging Film	1.5%	1,389	0.0%	63	-	-	0.0%	0	0.0%	1,452
Film Products	0.2%	206	0.0%	7	_	_	0.0%	0	0.1%	213
Other Film - Other	2.9%	2,645	0.9%	182	-	-	0.0%	6	1.3%	2,833
Durable Plastic Items - #2 and #5 Bulky Rigids	0.3%	275	0.8%	171	-	-	0.0%	2	0.2%	449
Durable Plastic Items - Other	3.3%	2,967	0.0%	0	-	-	1.5%	1,561	2.1%	4,528
Remainder/Composite Plastic	7.0%	6,414	2.8%	580	-	-	0.0%	5	3.2%	6,999
Other Organic	21.3%	19,479	0.2%	44	-	-	5.1%	5,388	11.5%	24,911
Food	11.3%	10,310	0.1%	31	-	-	1.9%	1,981	5.7%	12,321
Leaves and Grass	2.8%	2,524	0.0%	0	-	-	2.6%	2,676	2.4%	5,200
Prunings and Trimmings	0.6%	518	0.0%	0	-	-	0.5%	572	0.5%	1,089
Branches and Stumps	0.0%	4	0.0%	0	-	-	0.2%	160	0.1%	163
Manures	0.0%	0	0.0%	0	-	-	0.0%	0	0.0%	0
Textiles	1.8%	1,618	0.0%	3	-	-	0.0%	0	0.7%	1,621
Carpet	0.1%	70	0.0%	0	-	-	0.0%	0	0.0%	70
Remainder/Composite Organic	4.9%	4,436	0.0%	10	-	-	0.0%	0	2.0%	4,446
Inerts and Other	20.7%	18,935	0.0%	0	-	-	16.1%	16,845	16.5%	35,780
Concrete	0.5%	413	0.0%	0	-	-	0.3%	318	0.3%	731
Asphalt Paving	0.0%	45	0.0%	0	-	-	0.0%	0	0.0%	45
Asphalt Roofing	0.4%	391	0.0%	0	-	-	0.0%	0 2 501	0.2% 2.0%	391
Clean Dimensional Lumber Clean Engineered Wood	2.0% 0.2%	1,867 152	0.0% 0.0%	0	_	-	2.4% 0.0%	2,501 0	2.0%	4,367 152
Clean Pallets & Crates	0.2% 10.5%	9,598	0.0%	0	_	-	0.0%	12,211	0.1% 10.1%	21,809
	4 404	1.057	0.0%	0		-	0.4%	415	2.1%	4 470
Other Wood Waste Gypsum Board	4.4%	4,057 0	0.0%	0		-	0.4%	415	0.0%	4,472
Rock, Soil and Fines	1.8%	1,603	0.0%	0		-	1.3%	1,400	1.4%	3,003
Remainder/Composite Inerts and Other	0.9%	811	0.0%	0	_	-	0.0%	1,400	0.4%	811
Household Hazardous Waste	0.3%	755	0.0%	0	-	-	0.0%	0	0.4%	755
Paint	0.5%	456	0.0%	0	-	-	0.0%	0	0.2%	456
Vehicle and Equipment Fluids	0.0%	12	0.0%	0 0	-	-	0.0%	0	0.0%	12
Used Oil	0.0%	0	0.0%	Ő	-	-	0.0%	Ő	0.0%	0
Batteries	0.1%	99	0.0%	0	-	-	0.0%	0	0.0%	99
Remainder/Composite Household Hazardous	0.2%	189	0.0%	0	-	-	0.0%	0	0.1%	189
Special Waste	2.7%	2,444	0.0%	0	-	-	0.2%	234	1.2%	2,678
Ash	0.0%	0	0.0%	0	-	-	0.0%	0	0.0%	. 0
Treated Medical Waste	0.0%	0	0.0%	0	-	-	0.0%	0	0.0%	0
Bulky Items	2.7%	2,442	0.0%	0	-	-	0.2%	234	1.2%	2,676
Tires	0.0%	0	0.0%	0	-	-	0.0%	0	0.0%	0
Remainder/Composite Special Waste	0.0%	1	0.0%	0	-	-	0.0%	0	0.0%	1
Mixed Residue	0.0%	0	0.0%	0	-	-	0.0%	0	0.0%	0
Totals Streams Sampled	<b>100.0%</b> 5	<b>91,265</b>	<b>100.0%</b>	<b>21,020</b> 9	-	-	<b>100.0%</b> 7	<b>104,646</b> 2	100.0% 14	216,931 12
	0.3			07	0.0					

Tables detailing the composition for all 82 materials can be found in Appendix E: Detailed Composition Tables

## Findings for Manufacturing – Food & Nondurable Wholesale

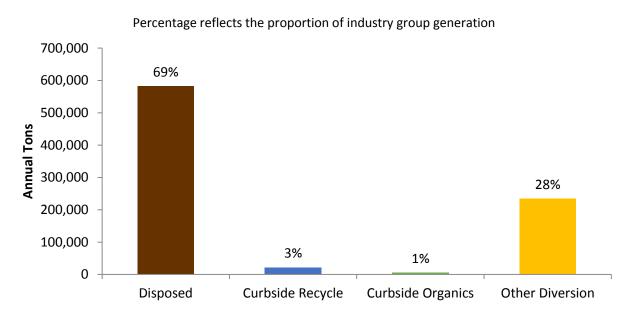
Table 46 presents key findings for the Manufacturing – Food & Nondurable Wholesale industry group (Group 6). This group consists of manufacturers of food, beverages, and tobacco products; and wholesalers of non-durable goods such as paper, apparel, groceries, and chemicals. Statewide, Group 6 disposed of more than 582,000 tons and diverted nearly 262,000 tons. Total generation was approximately 1.85 TPEPY. *Food* was the most prevalent divertible material type in the Group 6 Disposed stream, accounting for 38 percent of disposal.

Manufactur	ing - Food 8	Nondurable	e Wholesale							
Key Findings and Metrics										
Disposed	Disposed Diverted Disposed Diverted Diversion									
TPEPY	TPEPY	Tons	Tons	Rate						
1.28	0.57	582,486	261,646	31%						
Top Three Div	version Opportu	inities in Dispos	sed Stream							
<ul> <li>Food (38)</li> </ul>	8%, 220,403 ton	s)								
Remain	der/Composite P	aper - Composta	able (8%, 45,184	tons)						
Clean P	allets & Crates (4	4%, 23,205 tons)	)							

 Table 46. Key Findings and Metrics: Manufacturing – Food & Nondurable

 Wholesale

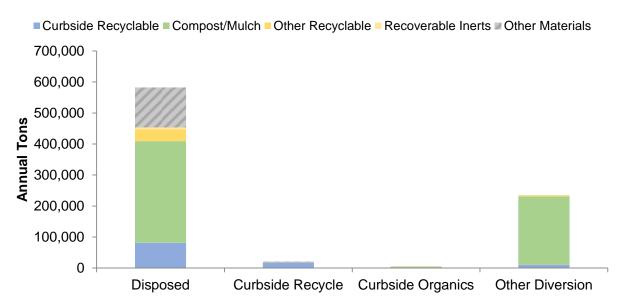
Figure 26 presents the annual tons for each stream in Group 6. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins, and materials diverted through other means, such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination—materials not typically acceptable in those streams, such as food in recycling bins or glass in organics bins. The curbside diversion streams combined were approximately 4 percent of generation, and Other Diversion was an additional 28 percent. Approximately 68 percent of the Other Diversion stream was *food*. Many of the generators in this group back-haul or self-haul their organics for animal feed, composting, or anaerobic digestion.



# Figure 26. Annual Tons by Waste Stream: Manufacturing – Food & Nondurable Wholesale

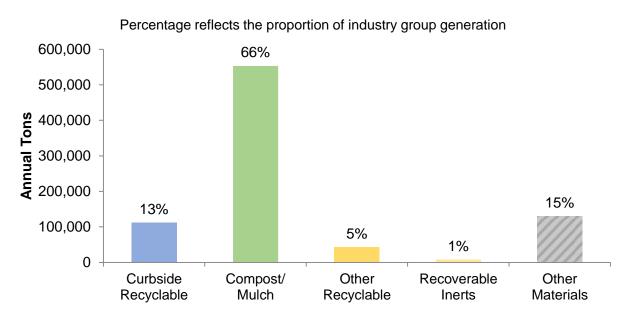
Each stream was composed of many different material types, and each of those material types was assigned to one of the five recoverability groups. Table 95 in Appendix B: Material Definitions details the assignment of material types to recoverability groups. Figure 27 breaks down the potential recoverability (by recoverability group) for each stream in Group 6. As shown, more than three-quarters of the Disposed stream was divertible, mostly **Compost/Mulch** materials.

The Group 6 Curbside Recycle contamination rate was 14 percent, and the Curbside Organics contamination rate was 6 percent.



# Figure 27. Recoverability by Stream: Manufacturing – Food & Nondurable Wholesale

Figure 28 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 28 illustrates, two-thirds of total generation in Group 6 was material in the **Compost/Mulch** recoverability group. **Other Materials** and **Curbside Recyclable** accounted for 15 percent and 13 percent of total generation, respectively. When combined, divertible materials accounted for roughly 85 percent of the Group 6 generation. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.



# Figure 28. Recoverability of Materials Generated in the Manufacturing – Food & Nondurable Wholesale Sector

Table 47 presents detailed composition results for each stream in Group 6, as well as for the total group generation.

## Table 47. Composition Summary: Manufacturing – Food & Nondurable Wholesale

Material	Disp Est. %	osed Est. Tons	Curbside Est. %	e Recycle Est. Tons	Curbside Est. %	e Organics Est. Tons	Other I Est. %	Diversion Est. Tons	Total G Est. %	eneration Est. Tons
Paper	23.1%	134,277	69.2%	15,058	2.2%	119	4.5%	10,666	19.0%	160,121
Uncoated Corrugated Cardboard	3.4%	19,650	42.1%	9,158	0.0%	0	4.3%	10,192	4.6%	39,000
Paper Bags	0.4%	2,049	0.3%	67	0.0%	0	0.0%	2	0.3%	2,118
Newspaper	0.8%	4,523	1.5%	327	0.0%	0	0.0%	0	0.6%	4,850
White Ledger Paper Other Office Paper	1.2% 1.5%	7,177 8,568	6.8% 2.6%	1,477 573	0.0% 0.0%	0	0.0% 0.0%	63 28	1.0% 1.1%	8,716 9,169
Magazines and Catalogs	0.4%	2,162	2.6%	573 1,135	0.0%	0	0.0%	28 0	0.4%	3,297
Phone Books and Directories	0.0%	2,102	0.0%	1,135	0.0%	0	0.0%	0	0.0%	0,237
Other Miscellaneous Paper - Compostable	0.7%	4,187	1.0%	209	1.8%	95	0.0%	0	0.5%	4,491
Other Miscellaneous Paper - Other	3.3%	19,170	8.1%	1,769	0.2%	10	0.2%	381	2.5%	21,331
Remainder/Composite Paper - Compostable	7.8%	45,184	0.2%	40	0.3%	14	0.0%	0	5.4%	45,237
Remainder/Composite Paper - Other	3.7%	21,607	1.4%	304	0.0%	0	0.0%	0	2.6%	21,911
Glass	1.4%	8,216	11.6%	2,526	0.0%	0	0.0%	0	1.3%	10,743
Clear Glass Bottles and Containers	0.8%	4,680	3.7%	804	0.0%	0	0.0%	0	0.6%	5,484
Green Glass Bottles and Containers	0.2%	1,252	5.4%	1,180	0.0%	0	0.0%	0	0.3%	2,432
Brown Glass Bottles and Containers	0.2%	994	1.4%	299	0.0%	0	0.0%	0	0.2%	1,294
Other Glass Colored Bottles and Containers	0.0%	0	1.1%	243	0.0%	0	0.0%	0	0.0%	243
Flat Glass	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Remainder/Composite Glass	0.2%	1,291	0.0%	0	0.0%	0	0.0%	0	0.2%	1,291
Metal	1.5%	8,868	0.5%	102	0.1%	4	1.1%	2,538	1.4%	11,512
Tin/Steel Cans	0.5%	2,697	0.1%	30	0.0%	0	0.0%	36	0.3%	2,762
Major Appliances	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Used Oil Filters	0.0%	11	0.0%	0	0.0%	0	0.0%	0	0.0%	11
Other Ferrous Aluminum Cans	0.1%	703	0.2%	33	0.0%	0 0	1.1%	2,495 7	0.4%	3,232
	0.1%	642	0.1% 0.0%	32 7	0.0% 0.0%	0	0.0%	/ 0	0.1%	681
Other Non-Ferrous	0.3% 0.5%	1,833 2,982	0.0%	0	0.0%	0 4	0.0% 0.0%	0	0.2% 0.4%	1,840 2,986
Remainder/Composite Metal Electronics	0.5% 0.8%	2,982 <b>4,583</b>	0.0% 0.0%	0 4	0.1% 0.0%	4 0	0.0% 0.0%	108	0.4% 0.6%	2,986 <b>4,695</b>
Brown Goods	0.0%	3,872	0.0%	<b>4</b> 0	0.0%	0	0.0%	0	0.5%	3,872
Computer-related Electronics	0.0%	218	0.0%	0	0.0%	0	0.0%	106	0.0%	324
Other Small Consumer Electronics	0.1%	493	0.0%	4	0.0%	0	0.0%	0	0.0%	497
Video Display Devices	0.0%	400	0.0%	0	0.0%	0 0	0.0%	1	0.0%	1
Plastic	17.0%	99,055	17.7%	3,849	0.0%	ŏ	0.2%	555	12.3%	103,459
PETE Plastic Containers	0.5%	2,751	6.7%	1,462	0.0%	Ō	0.0%	2	0.5%	4,215
HDPE Plastic Containers	0.3%	1,867	0.2%	41	0.0%	0	0.0%	0	0.2%	1,909
Miscellaneous Plastic Containers	0.6%	3,413	0.9%	196	0.0%	0	0.0%	0	0.4%	3,609
Plastic Trash Bags	1.6%	9,153	0.2%	40	0.0%	0	0.0%	0	1.1%	9,193
Plastic Grocery and Other Merchandise Bags	0.1%	461	0.1%	27	0.0%	0	0.0%	0	0.1%	487
Non-Bag Commercial and Industrial Packaging Film	3.9%	22,574	3.4%	736	0.0%	0	0.0%	0	2.8%	23,309
Film Products	0.0%	0	0.6%	121	0.0%	0	0.0%	51	0.0%	171
Other Film - Other	5.6%	32,594	0.6%	137	0.0%	0	0.0%	0	3.9%	32,731
Durable Plastic Items - #2 and #5 Bulky Rigids	0.7%	4,167	1.5%	337	0.0%	0	0.2%	503	0.6%	5,007
Durable Plastic Items - Other	0.3%	2,006	2.6%	569	0.0%	0	0.0%	0	0.3%	2,575
Remainder/Composite Plastic	3.4%	20,070	0.8%	183	0.0%	0	0.0%	0	2.4%	20,253
Other Organic	47.1%	274,475	0.9%	207	92.0%	4,958	71.2%	166,880	52.9%	446,519
Food	37.8%	220,403	0.7%	155	89.4%	4,821	68.1%	159,682	45.6%	385,062
Leaves and Grass	3.8%	22,170	0.0%	5	2.5%	136	3.1%	7,197	3.5%	29,509
Prunings and Trimmings	0.1%	837	0.0%	2	0.0%	0	0.0%	0	0.1%	839
Branches and Stumps	0.3%	1,878	0.0%	0	0.0%	0	0.0%	0	0.2%	1,878
Manures	0.0%	0	0.0%	-	0.0%	0	0.0%	0	0.0%	0
Textiles Carpet	1.3% 0.0%	7,473 0	0.2% 0.0%	44 0	0.0% 0.0%	0	0.0% 0.0%	0 0	0.9% 0.0%	7,517
Remainder/Composite Organic		-		0		0		-		•
Inerts and Other	3.7% <b>8.1%</b>	21,714 <b>47,024</b>	0.0% <b>0.1%</b>	22	0.0% <b>5.8%</b>	310	0.0% <b>22.9%</b>	0 53,660	2.6% <b>12.0%</b>	21,714 <b>101,017</b>
Concrete	0.1%	1,768	0.0%	0	0.0%	0	0.0%	0	0.2%	1,768
Asphalt Paving	0.3%	1,700	0.0%	0	0.0%	0	0.0%	0	0.2%	1,700
Asphalt Roofing	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Clean Dimensional Lumber	0.6%	3,330	0.0%	22	0.0%	0	0.0%	0	0.4%	3,352
Clean Engineered Wood	1.1%	6,332	0.0%	0	0.0%	0	0.0%	0	0.4%	6,332
Clean Pallets & Crates	4.0%	23,205	0.0%	0	0.0%	0	22.7%	53,288	9.1%	76,492
Other Wood Waste	1.1%	6,261	0.0%	0 0	0.0%	0	0.0%	00,200	0.7%	6,261
Gypsum Board	0.1%	393	0.0%	0 0	0.0%	0	0.0%	Ő	0.0%	393
Rock, Soil and Fines	0.8%	4,445	0.0%	Ő	5.8%	310	0.2%	373	0.6%	5,128
Remainder/Composite Inerts and Other	0.2%	1,290	0.0%	0	0.0%	0	0.0%	0	0.2%	1,290
Household Hazardous Waste	0.3%	1,504	0.0%	0	0.0%	0	0.0%	Ō	0.2%	1,504
Paint	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Vehicle and Equipment Fluids	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Used Oil	0.0%	0	0.0%	0	0.0%	Ō	0.0%	0	0.0%	Ō
Batteries	0.0%	119	0.0%	0	0.0%	0	0.0%	0	0.0%	119
Remainder/Composite Household Hazardous	0.2%	1,385	0.0%	0	0.0%	0	0.0%	0	0.2%	1,385
Special Waste	0.7%	4,254	0.0%	0	0.0%	0	0.0%	78	0.5%	4,333
Ash	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Treated Medical Waste	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Bulky Items	0.7%	4,238	0.0%	0	0.0%	0	0.0%	78	0.5%	4,316
Tires	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Remainder/Composite Special Waste	0.0%	17	0.0%	0	0.0%	0	0.0%	0	0.0%	17
Mixed Residue	0.0%	229	0.0%	0	0.0%	0	0.0%	0	0.0%	229
Totals	100.0%	582,486	100.0%	21,768	100.0%	5,392	100.0%	234,486	100.0%	844,131
Streams Sampled		53	1	7		4		43	1	17

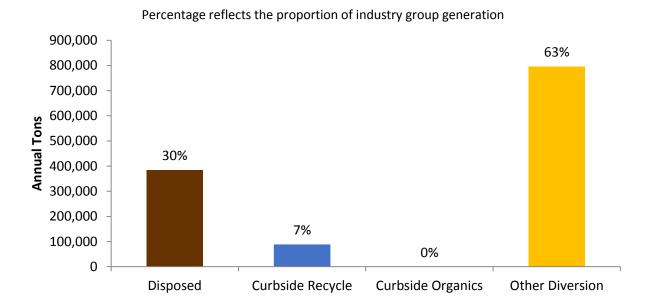
Tables detailing the composition for all 82 materials can be found in Appendix E: Detailed Composition Tables

# Findings for Manufacturing – All Other

Table 48 presents key findings for the Manufacturing – All Other industry group (Group 7). Statewide, Group 7 disposed of more than 384,000 tons and diverted nearly 886,000 tons, mostly through the Other Diversion stream. Total generation was approximately 1.50 TPEPY. *Remainder/composite paper – compostable* was the most prevalent divertible material type in the Group 7 Disposed stream, accounting for 9 percent of disposal. Approximately 66 percent of the Group 7 Other Diversion stream was other *ferrous* and *other non-ferrous*.

Manufacturing - All Other								
Key Findings and Metrics								
Disposed	Diverted	Disposed	Diverted	Diversion				
TPEPY	TPEPY	Tons	Tons	Rate				
0.45	0.45 1.05 384,292 885,586 70%							
Top Three Div	Top Three Diversion Opportunities in Disposed Stream							
<ul> <li>Remainder/Composite Paper - Compostable (8%, 29,777 tons)</li> </ul>								
<ul> <li>Food (7%, 26,907 tons)</li> </ul>								
Clean Page	Clean Pallets & Crates (6%, 21,632 tons)							

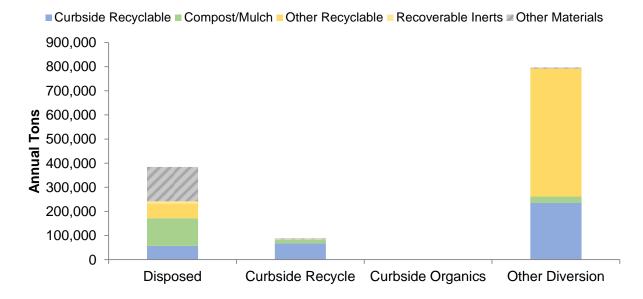
As shown in Figure 29, the Other Diversion stream accounted for approximately 63 percent of total generation in Group 7. The majority of the remaining generation (30 percent) is the Disposed stream. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins, and materials diverted through other means such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination—materials not typically acceptable in those streams such as food in recycling bins or glass in organics bins.



#### Figure 29. Annual Tons by Waste Stream: Manufacturing – All Other

Each material stream was composed of many different material types, and each of those material types was assigned to one of the five recoverability groups. Table 95 in Appendix B: Material Definitions details the assignment of material types to recoverability groups. Figure 30 breaks down the potential recoverability (by recoverability group) for each stream in Group 7. As shown, the Other Diversion stream was primarily **Other Recyclable** materials.

The Group 7 Curbside Recycle contamination rate was 23 percent, largely from lumber found in recycling bins. The study did not include any sites from this group with Curbside Organics.



### Figure 30. Recoverability by Stream: Manufacturing – All Other

Figure 31 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 31 illustrates, approximately 47 percent of total generation in Group 7 was material in the **Other Recyclable** recoverability group, and approximately 28 percent was **Curbside Recyclable**. When combined, divertible materials accounted for roughly 88 percent of the Group 7 generation. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.

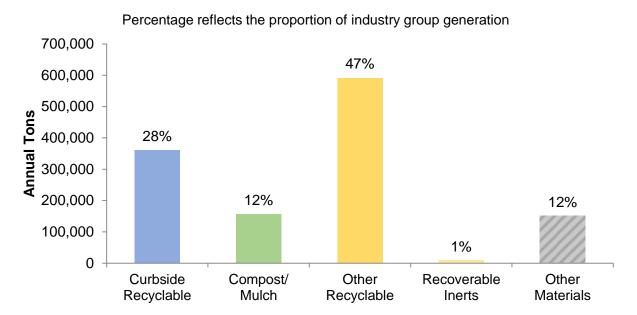


Figure 31. Recoverability of Materials Generated in the Manufacturing – All Other Sector

Table 49 presents detailed composition results for each stream in Group 7, as well as for the total group generation.

## Table 49. Composition Summary: Manufacturing – All Other

Material	Disp Est. %	osed Est. Tons	Curbside Est. %	e Recycle Est. Tons	Curbside Est. %	Organics Est. Tons	Other E Est. %	Diversion Est. Tons	Total G Est. %	eneration Est. Tons
Paper	25.1%	96,612	81.9%	72,799	-	-	29.4%	234,258	31.8%	403,669
Uncoated Corrugated Cardboard	4.4%	16,996	28.4%	25,254	-	-	5.2%	41,146	6.6%	83,396
Paper Bags Newspaper	0.3% 0.6%	989	0.7% 0.7%	612 666	-	-	0.0% 0.0%	0 0	0.1% 0.2%	1,601
White Ledger Paper	2.7%	2,387 10,472	3.5%	3,086	-	-	3.3%	26,503	3.2%	3,053 40,061
Other Office Paper	1.9%	7,363	30.8%	27,354	_	-	0.1%	454	2.8%	35.172
Magazines and Catalogs	0.6%	2,185	11.2%	9,969	-	-	0.0%	0	1.0%	12,153
Phone Books and Directories	0.1%	470	0.0%	0	-	-	0.0%	0	0.0%	470
Other Miscellaneous Paper - Compostable	0.6%	2,229	5.4%	4,803	-	-	0.0%	0	0.6%	7,032
Other Miscellaneous Paper - Other	2.8%	10,913	0.6%	517	-	-	20.8%	165,973	14.0%	177,403
Remainder/Composite Paper - Compostable	7.7%	29,777	0.1%	52	-	-	0.0%	0	2.3%	29,828
Remainder/Composite Paper - Other Glass	3.3% <b>0.6%</b>	12,832 <b>2,168</b>	0.5% <b>0.1%</b>	485 102	-	-	0.0% <b>0.1%</b>	182 <b>490</b>	1.1% <b>0.2%</b>	13,499 <b>2,759</b>
Clear Glass Bottles and Containers	0.0%	2,100	0.1%	32	-	-	0.1%	343	0.2%	2,759
Green Glass Bottles and Containers	0.0%	113	0.0%	70	_	-	0.0%	0	0.0%	183
Brown Glass Bottles and Containers	0.1%	288	0.0%	0	-	-	0.0%	147	0.0%	435
Other Glass Colored Bottles and Containers	0.0%	0	0.0%	0	-	-	0.0%	0	0.0%	0
Flat Glass	0.3%	1,144	0.0%	0	-	-	0.0%	0	0.1%	1,144
Remainder/Composite Glass	0.0%	111	0.0%	0	-	-	0.0%	0	0.0%	111
Metal	8.5%	32,592	0.4%	386	-	-	66.2%	527,081	44.1%	560,059
Tin/Steel Cans	0.3%	1,091	0.0%	0	-	-	0.0%	6	0.1%	1,097
Major Appliances	0.5%	1,907	0.0% 0.0%	0 0	-	-	0.0% 0.0%	0 0	0.2% 0.0%	1,907 54
Used Oil Filters Other Ferrous	0.0% 4.7%	54 18,172	0.0%	364	-	-	44.1%	351,011	29.1%	369,547
Aluminum Cans	0.1%	539	0.4%	15		-	0.0%	210	0.1%	764
Other Non-Ferrous	2.2%	8,358	0.0%	7	-	-	22.1%	175,854	14.5%	184.219
Remainder/Composite Metal	0.6%	2,473	0.0%	0	-	-	0.0%	0	0.2%	2,473
Electronics	0.6%	2,283	0.0%	0	-	-	0.4%	3,256	0.4%	5,539
Brown Goods	0.2%	835	0.0%	0	-	-	0.0%	0	0.1%	835
Computer-related Electronics	0.0%	0	0.0%	0	-	-	0.3%	2,352	0.2%	2,352
Other Small Consumer Electronics	0.0%	0	0.0%	0	-	-	0.0%	0	0.0%	0
Video Display Devices	0.4%	1,448	0.0%	0	-	-	0.1%	904	0.2%	2,352
Plastic PETE Plastic Containers	<b>13.6%</b> 0.3%	<b>52,142</b> 1,183	<b>4.9%</b> 0.2%	<b>4,383</b> 190	-	-	<b>0.6%</b> 0.1%	<b>4,774</b> 588	<b>4.8%</b> 0.2%	61,299 1,962
HDPE Plastic Containers	0.3%	1,165	0.2%	190	-	-	0.1%	23	0.2%	1,962
Miscellaneous Plastic Containers	0.3%	720	0.2%	403	_	-	0.0%	23	0.1%	1,123
Plastic Trash Bags	1.2%	4,705	0.0%	0	-	-	0.0%	Ő	0.4%	4,705
Plastic Grocery and Other Merchandise Bags	0.1%	542	0.0%	18	-	-	0.0%	0	0.0%	560
Non-Bag Commercial and Industrial Packaging Film	1.9%	7,167	0.7%	592	-	-	0.0%	0	0.6%	7,759
Film Products	0.0%	168	0.0%	1	-	-	0.0%	90	0.0%	259
Other Film - Other	1.6%	6,173	1.5%	1,335	-	-	0.0%	0	0.6%	7,508
Durable Plastic Items - #2 and #5 Bulky Rigids	0.2%	633	0.2%	165	-	-	0.0%	10	0.1%	808
Durable Plastic Items - Other	1.0%	3,905	1.6%	1,395	-	-	0.1%	466	0.5%	5,766
Remainder/Composite Plastic	6.7% <b>20.3%</b>	25,780	0.1%	128	-	-	0.5% <b>0.0%</b>	3,596	2.3%	29,505
Other Organic Food	<b>20.3%</b> 7.0%	<b>78,076</b> 26,907	<b>0.6%</b> 0.1%	<b>497</b> 73	-	-	0.0%	<b>0</b> 0	6.2% 2.1%	<b>78,573</b> 26,980
Leaves and Grass	0.8%	3,185	0.1%	411	_	-	0.0%	0	0.3%	3,596
Prunings and Trimmings	0.7%	2,541	0.0%	0	-	-	0.0%	Ő	0.2%	2,541
Branches and Stumps	1.5%	5,840	0.0%	0	-	-	0.0%	0	0.5%	5,840
Manures	0.0%	0	0.0%	0	-	-	0.0%	0	0.0%	0
Textiles	4.4%	17,024	0.0%	14	-	-	0.0%	0	1.3%	17,038
Carpet	0.4%	1,433	0.0%	0	-	-	0.0%	0	0.1%	1,433
Remainder/Composite Organic	5.5%	21,146	0.0%	0	-	-	0.0%	0	1.7%	21,146
Inerts and Other	28.3%	108,633	11.2%	9,994	-	-	3.4%	26,859	11.5%	145,487
Concrete	0.4%	1,726	0.0%	0	-	-	0.0%	0	0.1%	1,726 0
Asphalt Paving Asphalt Roofing	0.0% 0.0%	0 2	0.0% 0.0%	0	-	-	0.0% 0.0%	0 0	0.0% 0.0%	2
Clean Dimensional Lumber	4.9%	2 18,804	11.2%	9,994	-	-	0.0%	0	2.3%	28,798
Clean Engineered Wood	0.9%	3,444	0.0%	0,004	-	-	0.0%	ő	0.3%	3,444
Clean Pallets & Crates	5.6%	21,632	0.0%	0	-	-	3.4%	26,859	3.8%	48,491
Other Wood Waste	8.2%	31,430	0.0%	0	-	-	0.0%	0	2.5%	31,430
Gypsum Board	1.4%	5,215	0.0%	0	-	-	0.0%	0	0.4%	5,215
Rock, Soil and Fines	0.7%	2,568	0.0%	0	-	-	0.0%	0	0.2%	2,568
Remainder/Composite Inerts and Other	6.2%	23,810	0.0%	0	-	-	0.0%	0	1.9%	23,810
Household Hazardous Waste	0.9%	3,476	0.0%	11	-	-	0.0%	1	0.3%	3,488
Paint Vahiele and Equipment Eluide	0.8%	2,930	0.0%	0	-	-	0.0%	0	0.2%	2,930
Vehicle and Equipment Fluids Used Oil	0.0%	83	0.0% 0.0%	0 0	-	-	0.0%	0	0.0%	83
Batteries	0.0% 0.0%	7 53	0.0%	0 11		-	0.0% 0.0%	0 1	0.0% 0.0%	7 65
Remainder/Composite Household Hazardous	0.0%	403	0.0%	0		-	0.0%	0	0.0%	403
Special Waste	2.2%	8,310	0.0%	Ő		_	0.0%	Ő	0.7%	8,310
Ash	0.0%	86	0.0%	0	-	-	0.0%	Ő	0.0%	86
Treated Medical Waste	0.0%	0	0.0%	Ő	-	-	0.0%	Ő	0.0%	0
Bulky Items	1.9%	7,269	0.0%	0	-	-	0.0%	0	0.6%	7,269
Tires	0.2%	956	0.0%	0	-	-	0.0%	0	0.1%	956
Remainder/Composite Special Waste	0.0%	0	0.0%	0	-	-	0.0%	0	0.0%	0
Mixed Residue	0.0%	0	0.8%	695	-	-	0.0%	0	0.1%	695
Totals Streams Sampled	100.0%	<b>384,292</b>	100.0%	88,868 7	-	-	100.0%	<b>796,718</b> 74	100.0%	1,269,878
Streams Sampled TPEPY		.45		7 10		0 .00		.94		.50

Tables detailing the composition for all 82 materials can be found in Appendix E: Detailed Composition Tables

## Findings for Medical & Health

Table 50 presents key findings for the Medical & Health industry group (Group 8). Statewide, Group 8 disposed of more than 1 million tons annually and had a 9 percent diversion rate, the lowest diversion rate of any industry group. This was likely due to a combination of the types of materials generated (such as patient gowns, tubing, and gloves) that could not be recovered and privacy policies that reduced the recovery of paper. *Food* was the most prevalent divertible material type in the Group 8 Disposed stream, accounting for 22 percent of disposal.

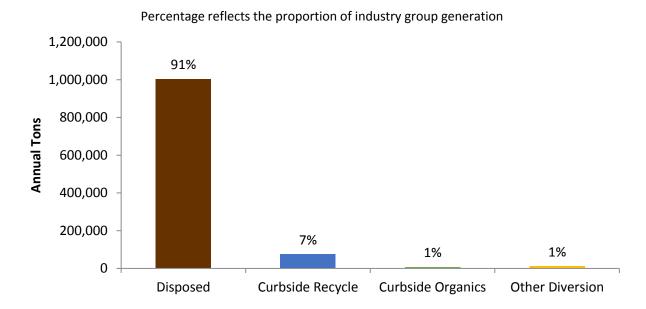
Medical & Health								
Key Findings and Metrics								
Disposed	Diverted	Disposed	Diverted	Diversion				
TPEPY	TPEPY	Tons	Tons	Rate				
0.67	0.67 0.06 1,003,316 93,629 9%							
Top Three Diversion Opportunities in Disposed Stream								
<ul> <li>Food (22%, 216,983 tons)</li> </ul>								
<ul> <li>Remainder/Composite Paper - Compostable (11%, 109,841 tons)</li> </ul>								
Leaves	<ul> <li>Leaves and Grass (3%, 26,201 tons)</li> </ul>							

For sampling, this group was divided into two subgroups: "Ambulatory Health Care Services" and "Hospital, Nursing, and Residential Care Facilities." In addition to normalizing generation on a per employee basis (TPEPY) for the group as a whole, the project team normalized generation for the latter subgroup by the number of beds at each generator site. As shown in Table 51, Hospital, Nursing, and Residential Care Facilities in Group 8 generated an estimated 0.57 tons per bed per year. The number of sites used in this calculation is noted in Table 98 in Appendix C: Description of Calculations.

Table 51. Generation Rate Summary by Weight: Medical & Health (tons per bed per year)

Tons per Bed per Year	Disposed	Curbside Recycle	Curbside Organics	Other Diversion	Generation
Hospital, Nursing, & Residential Care Facilities	0.52	0.03	0.01	0.01	0.57

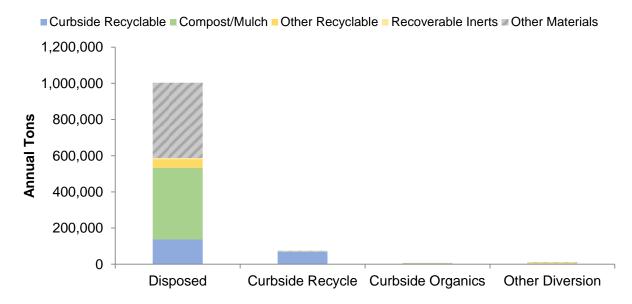
Figure 32 presents the annual tons for each stream in Group 8. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins, and materials diverted through other means such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination—materials not typically acceptable in those streams such as food in recycling bins or glass in organics bins. As shown, approximately 91 percent of Group 8 generation went to the Disposed stream.



#### Figure 32. Annual Tons by Waste Stream: Medical & Health

Each material stream was composed of many different material types, and each of those material types was assigned to one of the five recoverability groups. Table 95 in Appendix B: Material Definitions details the assignment of material types to recoverability groups. Figure 33 breaks down the potential recoverability (by recoverability group) for each stream in Group 8. As shown, **Compost/Mulch** and **Other Materials** each accounted for approximately 40 percent of the Disposed stream.

The Group 8 Curbside Recycle contamination rate was 7 percent, and the Curbside Organics contamination rate was 21 percent.



### Figure 33. Recoverability by Stream: Medical & Health

Figure 34 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 34 illustrates, approximately 39 percent of total generation in Group 8 went to the **Other Materials** recoverability group. This is the only industry group in which **Other Materials** is the largest recoverability group, mainly due to a large amount of *Remainder/Composite Organic* materials, including diapers and other organic waste not typically recovered, that was generated. When combined, divertible materials accounted for roughly 61 percent of the Group 8 generation, the lowest diversion potential of any industry group. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.

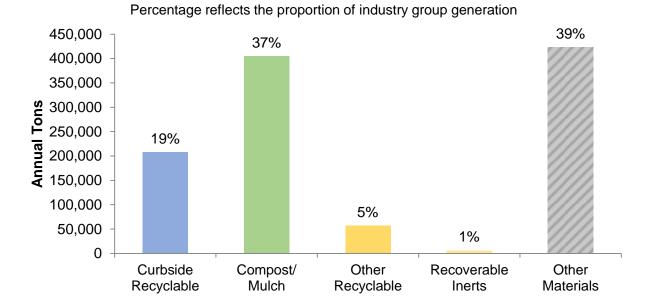




Table 52 presents detailed composition results for each stream in Group 8, as well as for the total group generation.

## Table 52. Composition Summary: Medical & Health

Material	Dis Est. %	oosed Est. Tons	Curbsid Est. %	le Recycle Est. Tons	Curbside Est. %	e Organics Est. Tons	Other Est. %	Diversion Est. Tons	Total G Est. %	eneration Est. Tons
Paper	25.9%	259,993	90.0%	67,359	10.4%	822	0.4%	43	29.9%	328,218
Uncoated Corrugated Cardboard	1.9%	18,676	60.3%	45,116	0.2%	16	0.4%	38	5.8%	63,847
Paper Bags	0.2%	1,801	0.6%	474	0.0%	0	0.0%	1	0.2%	2,276
Newspaper	2.5%	24,923	6.2%	4,670	0.0%	0	0.0%	0	2.7%	29,593
White Ledger Paper Other Office Paper	1.4% 1.9%	14,281 19,249	5.1% 7.1%	3,822 5,319	0.1% 0.0%	5 0	0.0% 0.0%	1 0	1.7% 2.2%	18,109 24,568
Magazines and Catalogs	0.6%	5,632	5.4%	4,068	0.0%	0	0.0%	1	0.9%	9,701
Phone Books and Directories	0.2%	1,916	0.0%	4,000	0.0%	ŏ	0.0%	0	0.2%	1,930
Other Miscellaneous Paper - Compostable	0.1%	1,192	1.0%	738	3.4%	269	0.0%	0	0.2%	2,198
Other Miscellaneous Paper - Other	2.6%	25,585	2.7%	2,046	2.4%	191	0.0%	2	2.5%	27,824
Remainder/Composite Paper - Compostable	10.9%	109,841	0.3%	219	0.0%	0	0.0%	0	10.0%	110,059
Remainder/Composite Paper - Other	3.7%	36,898	1.2%	873	4.3%	341	0.0%	0	3.5%	38,112
Glass	0.5%	4,805	0.4%	264	0.0%	0	0.0%	0	0.5%	5,068
Clear Glass Bottles and Containers Green Glass Bottles and Containers	0.3% 0.0%	2,512 438	0.2% 0.0%	180 0	0.0% 0.0%	0 0	0.0% 0.0%	0	0.2% 0.0%	2,692 438
Brown Glass Bottles and Containers	0.0%	436	0.0%	0	0.0%	0	0.0%	0	0.0%	436
Other Glass Colored Bottles and Containers	0.0%	19	0.1%	62	0.0%	ŏ	0.0%	Ő	0.0%	81
Flat Glass	0.0%	214	0.0%	0	0.0%	0	0.0%	0	0.0%	214
Remainder/Composite Glass	0.1%	1,193	0.0%	22	0.0%	0	0.0%	0	0.1%	1,215
Metal	1.6%	15,997	2.1%	1,577	4.0%	317	0.1%	8	1.6%	17,900
Tin/Steel Cans	0.7%	7,483	0.8%	616	3.7%	291	0.0%	3	0.8%	8,394
Major Appliances	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Used Oil Filters	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Other Ferrous	0.2% 0.2%	2,222	0.0%	1	0.0%	0 0	0.0%	0 5	0.2% 0.2%	2,223
Aluminum Cans Other Non-Ferrous	0.2%	1,753 1,668	1.2% 0.0%	913 0	0.0% 0.3%	0 25	0.0% 0.0%	5 0	0.2%	2,670 1,694
Remainder/Composite Metal	0.2%	2,872	0.0%	47	0.3%	25	0.0%	0	0.2%	2,918
Electronics	0.2%	2,379	0.1%	80	0.0%	ŏ	12.9%	1,400	0.4%	3,858
Brown Goods	0.0%	_,0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Computer-related Electronics	0.2%	2,379	0.1%	80	0.0%	0	12.9%	1,400	0.4%	3,858
Other Small Consumer Electronics	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Video Display Devices	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Plastic	9.4%	94,240	5.4%	4,040	9.9%	781	0.0%	2	9.0%	99,063
PETE Plastic Containers	0.3%	3,176	0.5%	403 1,391	0.1%	10 62	0.0%	1	0.3%	3,589
HDPE Plastic Containers Miscellaneous Plastic Containers	0.6% 0.4%	5,698 3,799	1.9% 0.4%	315	0.8% 1.0%	62 81	0.0% 0.0%	1 0	0.7% 0.4%	7,152 4,195
Plastic Trash Bags	2.7%	27,308	0.4%	266	0.1%	10	0.0%	0	2.5%	27,583
Plastic Grocery and Other Merchandise Bags	0.2%	1,513	0.0%	23	0.0%	3	0.0%	Ő	0.1%	1,539
Non-Bag Commercial and Industrial Packaging Film	0.0%	482	0.2%	143	0.0%	0	0.0%	Ő	0.1%	625
Film Products	0.0%	46	0.1%	49	0.3%	25	0.0%	0	0.0%	120
Other Film - Other	1.9%	19,427	0.4%	330	2.8%	225	0.0%	0	1.8%	19,982
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	202	0.2%	113	0.0%	0	0.0%	0	0.0%	316
Durable Plastic Items - Other	0.4%	3,879	0.3%	252	0.0%	0	0.0%	0	0.4%	4,131
Remainder/Composite Plastic	2.9%	28,711	1.0%	755	4.6%	365	0.0%	1	2.7%	29,831
Other Organic Food	<b>54.6%</b> 21.6%	<b>548,122</b> 216,983	<b>1.3%</b> 1.2%	<b>943</b> 915	<b>75.7%</b> 69.5%	<b>5,989</b> 5,498	<b>59.2%</b> 0.2%	<b>6,422</b> 20	<b>51.2%</b> 20.4%	<b>561,476</b> 223,416
Leaves and Grass	21.6%	216,963	0.0%	915	0.0%	5,498 0	0.2%	20	20.4%	223,410
Prunings and Trimmings	1.5%	15,048	0.0%	0	6.2%	491	0.0%	7	1.4%	15,546
Branches and Stumps	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Manures	1.1%	10,763	0.0%	0	0.0%	0	0.0%	0	1.0%	10,763
Textiles	2.3%	23,161	0.0%	20	0.0%	0	59.0%	6,394	2.7%	29,574
Carpet	1.7%	16,583	0.0%	0	0.0%	0	0.0%	0	1.5%	16,583
Remainder/Composite Organic	23.9%	239,384	0.0%	9	0.0%	0	0.0%	0	21.8%	239,392
Inerts and Other	3.0%	29,736	0.1%	39	0.0%	0	0.0%	0	2.7%	29,775
Concrete	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Asphalt Paving Asphalt Roofing	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.0% 0.0%	0
Clean Dimensional Lumber	0.0%	2	0.0%	0	0.0%	0	0.0%	0	0.0%	2
Clean Engineered Wood	0.1%	798	0.0%	0	0.0%	ő	0.0%	Ő	0.1%	798
Clean Pallets & Crates	1.6%	15,611	0.0%	0	0.0%	0	0.0%	0	1.4%	15,611
Other Wood Waste	0.8%	7,603	0.0%	0	0.0%	0	0.0%	0	0.7%	7,603
Gypsum Board	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Rock, Soil and Fines	0.6%	5,611	0.0%	0	0.0%	0	0.0%	0	0.5%	5,611
Remainder/Composite Inerts and Other	0.0%	111	0.1%	39	0.0%	0	0.0%	0	0.0%	150
Household Hazardous Waste	0.1%	968	0.0%	11	0.0%	0	0.0%	0	0.1%	979
Paint Vehicle and Equipment Fluids	0.0% 0.0%	18	0.0% 0.0%	0	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.0% 0.0%	18
Used Oil	0.0%	0 0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Batteries	0.0%	24	0.0%	0	0.0%	0	0.0%	0	0.0%	24
Remainder/Composite Household Hazardous	0.1%	925	0.0%	11	0.0%	Ő	0.0%	Ő	0.1%	937
Special Waste	2.0%	19,589	0.5%	410	0.0%	ŏ	27.4%	2,971	2.1%	22,970
Ash	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Treated Medical Waste	0.4%	3,963	0.0%	0	0.0%	0	0.0%	0	0.4%	3,963
Bulky Items	0.3%	2,782	0.0%	0	0.0%	0	27.4%	2,971	0.5%	5,753
Tires	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Remainder/Composite Special Waste	1.3%	12,844	0.5%	410	0.0%	0	0.0%	0	1.2%	13,254
Mixed Residue	2.7%	27,487	0.2%	151	0.0%	0	0.0%	0	2.5%	27,638
Totals	100.0%	1.003.316	100.0%	74.874	100.0%	7.909	100.0%	10.846	100.0%	1.096.945
Totals Streams Sampled	100.0%	<b>1,003,316</b> 55	100.0%	<b>74,874</b> 29	100.0%	<b>7,909</b>	100.0%	<b>10,846</b> 31	100.0% 1	1,096,945

Percentages for material types may not total 100% due to rounding. Tables detailing the composition for all 82 materials can be found in Appendix E: Detailed Composition Tables

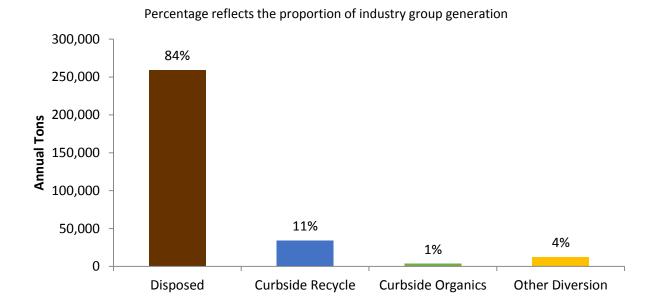
# Findings for Public Administration

The Public Administration industry group's 0.39 TPEPY was the lowest total generation rate of all industry groups. Statewide, Group 9 disposed of more than 259,000 tons and diverted more than 50,000 tons. Group 9 disposed of nearly 45,000 tons of *food* in 2013, making it the most prevalent divertible material type in the Group 9 Disposed stream. Group 9 included all public sector sites such as local government buildings and police and fire stations, but it did not include schools (public or private). Table 53 presents key findings for Group 9.

Public Administration								
Key Findings and Metrics								
Disposed	Diverted	Disposed	Diverted	Diversion				
TPEPY	TPEPY	Tons	Tons	Rate				
0.32	0.06	259,137	50,354	16%				
Top Three Diversion Opportunities in Disposed Stream								
<ul> <li>Food (17%, 44,508 tons)</li> </ul>								
<ul> <li>Remainder/Composite Paper - Compostable (14%, 37,208 tons)</li> </ul>								
Clean Page	allets & Crates (	5%, 13,416 tons)	1					

Table 53. Key Findings and Metrics:	Public Administration
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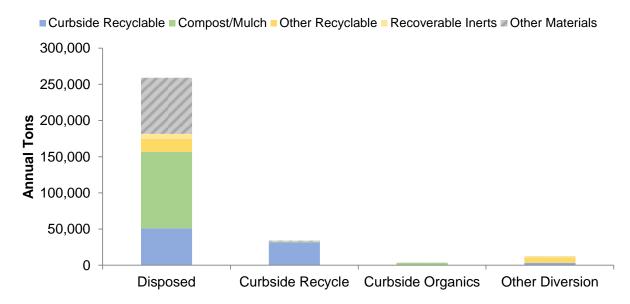
The Disposed stream makes up 84 percent of total generation in Group 9, as illustrated in Figure 35. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins, and materials diverted through other means such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination—materials not typically acceptable in those streams such as food in recycling bins or glass in organics bins.



#### Figure 35. Annual Tons by Waste Stream: Public Administration

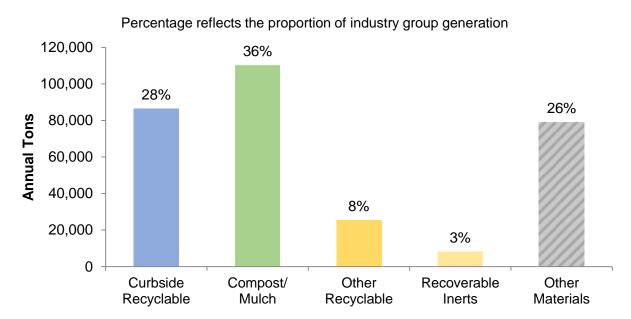
Each material stream was composed of many different material types, and each of those material types was assigned to one of the five recoverability groups. Table 95 in Appendix B: Material Definitions details the assignment of material types to recoverability groups. Figure 36 breaks down the potential recoverability (by recoverability group) for each stream in Group 9. As shown, approximately three-quarters of the Disposed stream was divertible, mostly **Compost/Mulch** materials.

The Group 9 Curbside Recycle contamination rate was 7 percent, and the Curbside Organics contamination rate was 8 percent.



### Figure 36. Recoverability by Stream: Public Administration

Figure 37 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 37 illustrates, approximately 36 percent of total generation in Group 9 was material in the **Compost/Mulch** recoverability group. **Curbside Recyclable** and **Other Materials** accounted for approximately 28 percent and 26 percent of Group 9 total generation, respectively. When combined, divertible materials accounted for nearly three-quarters of the Group 9 generation. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.



# Figure 37. Recoverability of Materials Generated in the Public Administration Sector

Table 54 presents detailed composition results for each stream in Group 9, as well as for the total group generation.

## Table 54. Composition Summary: Public Administration

Material		osed Est. Tons	Curbside Est. %	e Recycle Est. Tons	Curbside Est. %	e Organics Est. Tons	Other I Est. %	Diversion Est. Tons	Total G Est. %	eneration Est. Tons
Paper	34.7%	90,050	88.8%	30,409	28.4%	1,053	27.2%	3,381	40.4%	124,892
Uncoated Corrugated Cardboard	2.8%	7,172	20.1%	6,894	5.9%	220	0.0%	0	4.6%	14,286
Paper Bags	0.3%	871	0.3%	113	0.1%	6	0.0%	0	0.3%	990
Newspaper White Lodger Baper	2.3% 3.4%	6,051 8,795	2.2% 43.4%	757 14,846	0.0% 0.0%	0 0	1.8% 0.7%	227 81	2.3% 7.7%	7,034 23,722
White Ledger Paper Other Office Paper	3.4%	8,938	43.4%	3,751	0.0%	0	23.4%	2,903	5.0%	15,591
Magazines and Catalogs	1.2%	3,037	6.2%	2,133	0.0%	0	0.7%	2,303	1.7%	5,254
Phone Books and Directories	0.1%	203	0.4%	146	0.0%	Ő	0.0%	0	0.1%	349
Other Miscellaneous Paper - Compostable	0.3%	771	0.2%	85	19.8%	733	0.6%	69	0.5%	1,657
Other Miscellaneous Paper - Other	3.4%	8,842	2.1%	728	0.6%	23	0.1%	18	3.1%	9,612
Remainder/Composite Paper - Compostable	14.4%	37,208	1.8%	599	1.7%	64	0.0%	0	12.2%	37,871
Remainder/Composite Paper - Other	3.1%	8,161	1.0%	359	0.2%	7	0.0%	0	2.8%	8,526
Glass	0.9%	2,341	0.8%	272	0.0%	0	0.1%	15	0.8%	2,628
Clear Glass Bottles and Containers	0.4%	958	0.8%	272	0.0%	0	0.1%	15	0.4%	1,245
Green Glass Bottles and Containers	0.0%	127	0.0%	0	0.0%	0	0.0%	0	0.0%	127
Brown Glass Bottles and Containers Other Glass Colored Bottles and Containers	0.1%	139	0.0%	0	0.0%	0 0	0.0%	0 0	0.0%	139
Flat Glass	0.0% 0.0%	63 12	0.0% 0.0%	0	0.0% 0.0%	0	0.0% 0.0%	0	0.0% 0.0%	63 12
Remainder/Composite Glass	0.0%	1,042	0.0%	0	0.0%	0	0.0%	0	0.0%	1,042
Metal	7.2%	18,682	1.4%	466	0.0%	0	55.2%	6,861	8.4%	26,010
Tin/Steel Cans	0.6%	1,446	0.1%	41	0.0%	0	0.0%	0,001	0.5%	1,487
Major Appliances	0.0%	0	0.0%	0	0.0%	0 0	0.0%	0	0.0%	0
Used Oil Filters	0.0%	33	0.0%	Ő	0.0%	0	0.0%	Ő	0.0%	33
Other Ferrous	1.5%	3,893	0.2%	78	0.0%	0	52.2%	6,478	3.4%	10,449
Aluminum Cans	0.2%	496	0.2%	60	0.0%	0	0.2%	24	0.2%	581
Other Non-Ferrous	1.0%	2,565	0.0%	2	0.0%	0	2.9%	358	0.9%	2,926
Remainder/Composite Metal	4.0%	10,249	0.8%	285	0.0%	0	0.0%	0	3.4%	10,534
Electronics	0.1%	351	0.3%	111	0.0%	0	2.7%	339	0.3%	801
Brown Goods	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Computer-related Electronics	0.1%	339	0.3%	111	0.0%	0	2.7%	339	0.3%	789
Other Small Consumer Electronics	0.0%	13	0.0%	0	0.0%	0	0.0%	0	0.0%	13
Video Display Devices	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Plastic	13.3%	34,392	7.5%	2,577	0.6%	23	0.9%	109	12.0%	37,101
PETE Plastic Containers	0.5% 0.4%	1,401	1.0%	357	0.0% 0.0%	0 0	0.6% 0.0%	74 0	0.6%	1,832
HDPE Plastic Containers Miscellaneous Plastic Containers	0.4%	1,050 1,384	4.9% 0.1%	1,664 32	0.0%	0	0.0%	1	0.9% 0.5%	2,714 1,418
Plastic Trash Bags	2.8%	7,204	0.1%	140	0.0%	7	0.0%	0	2.4%	7,351
Plastic Grocery and Other Merchandise Bags	0.2%	603	0.4%	140	0.2%	0	0.0%	3	0.2%	618
Non-Bag Commercial and Industrial Packaging Film	0.2%	607	0.0%	11	0.0%	0	0.0%	0	0.2%	617
Film Products	0.0%	2	0.1%	26	0.0%	Ő	0.0%	5	0.0%	33
Other Film - Other	1.5%	4,016	0.2%	63	0.0%	0	0.1%	9	1.3%	4,088
Durable Plastic Items - #2 and #5 Bulky Rigids	0.5%	1,365	0.0%	11	0.0%	0	0.0%	0	0.4%	1,376
Durable Plastic Items - Other	1.9%	4,928	0.0%	12	0.0%	0	0.0%	0	1.6%	4,939
Remainder/Composite Plastic	4.6%	11,832	0.7%	250	0.4%	16	0.1%	17	3.9%	12,115
Other Organic	28.0%	72,599	0.1%	28	71.0%	2,634	1.4%	174	24.4%	75,435
Food	17.2%	44,508	0.1%	27	23.9%	886	0.3%	40	14.7%	45,461
Leaves and Grass	2.4%	6,191	0.0%	0	47.0%	1,743	0.0%	0	2.6%	7,934
Prunings and Trimmings	0.1%	263	0.0%	0	0.1%	5	1.1%	134	0.1%	403
Branches and Stumps	0.0%	125	0.0%	0	0.0%	0	0.0%	0	0.0%	125
Manures	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Textiles	2.5% 0.7%	6,494 1,888	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.0% 0.0%	0 0	2.1% 0.6%	6,494 1,888
Carpet	5.1%	13,130	0.0%	0	0.0%	0	0.0%	0	4.2%	13,130
Remainder/Composite Organic Inerts and Other	5.1% 14.0%	36,234	0.0% 0.0%	0	0.0%	0	0.0% 11.2%	1,385	4.2% 12.2%	37,619
Concrete	14.0%	4,193	0.0%	0	0.0%	0	3.2%	399	1.5%	4,592
Asphalt Paving	0.4%	949	0.0%	0	0.0%	0	0.0%	0	0.3%	949
Asphalt Roofing	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Clean Dimensional Lumber	0.7%	1,822	0.0%	Ő	0.0%	0	0.0%	Ő	0.6%	1,822
Clean Engineered Wood	0.6%	1,561	0.0%	0	0.0%	0	0.0%	0	0.5%	1,561
Clean Pallets & Crates	5.2%	13,416	0.0%	0	0.0%	0	0.0%	0	4.3%	13,416
Other Wood Waste	2.2%	5,775	0.0%	0	0.0%	0	0.0%	0	1.9%	5,775
Gypsum Board	0.2%	476	0.0%	0	0.0%	0	0.0%	0	0.2%	476
Rock, Soil and Fines	0.5%	1,323	0.0%	0	0.0%	0	7.9%	985	0.7%	2,308
Remainder/Composite Inerts and Other	2.6%	6,719	0.0%	0	0.0%	0	0.0%	0	2.2%	6,719
Household Hazardous Waste	0.1%	359	0.0%	8	0.0%	0	1.2%	155	0.2%	521
Paint Vahisla and Environment Fluida	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Vehicle and Equipment Fluids	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Used Oil	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Batteries Remainder/Composite Household Hazardous	0.0%	48	0.0%	0	0.0%	0	1.2%	155	0.1%	203
Special Waste	0.1% <b>0.0%</b>	311	0.0%	8	0.0% <b>0.0%</b>	0 0	0.0% <b>0.0%</b>	0	0.1%	318
Ash	0.0%	<b>83</b> 0	<b>1.0%</b> 0.0%	<b>347</b> 0	0.0%	0	0.0%	<b>0</b> 0	<b>0.1%</b> 0.0%	<b>430</b> 0
Treated Medical Waste	0.0%	0	1.0%	347	0.0%	0	0.0%	0	0.0%	347
Bulky Items	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.1%	0
Tires	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Remainder/Composite Special Waste	0.0%	83	0.0%	0	0.0%	0	0.0%	0	0.0%	83
Mixed Residue	1.6%	4,046	0.0%	9	0.0%	Ő	0.0%	Ő	1.3%	4,055
Totals	100.0%	259,137	100.0%	34,225	100.0%	3,710	100.0%	12,419	100.0%	309,491
Streams Sampled TPEPY		51		28		5		33		17
	• 0	32	∩	.04		0.00		0.02		.39

Tables detailing the composition for all 82 materials can be found in Appendix E: Detailed Composition Tables

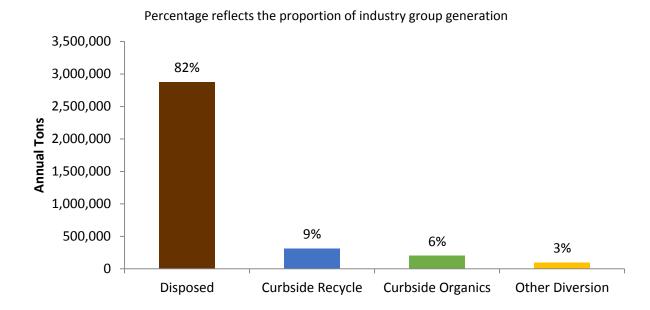
## Findings for Restaurants

Table 55 presents key findings for the Restaurants industry group (Group 10). Statewide, Group 10 disposed of nearly 2.9 million tons and diverted nearly 618,000 tons. The total generation rate was approximately 2.92 TPEPY. *Food* is the most prevalent divertible material type in the Group 10 Disposed stream, accounting for 51 percent of disposal.

Restaurant	S							
Key Findings and Metrics								
Disposed	Diverted	Disposed Diverted [		Diversion				
TPEPY	TPEPY	Tons	Tons	Rate				
2.40	0.52	2,876,653	617,826	18%				
Top Three Div	ersion Opportu	nities in Dispos	sed Stream					
<ul> <li>Food (5<sup>-</sup></li> </ul>	1%, 1,461,319 to	ons)						
<ul> <li>Remainder/Composite Paper - Compostable (12%, 350,240 tons)</li> </ul>								
<ul> <li>Newspa</li> </ul>	per (3%, 76,093	tons)						

## Table 55. Key Findings and Metrics: Restaurants

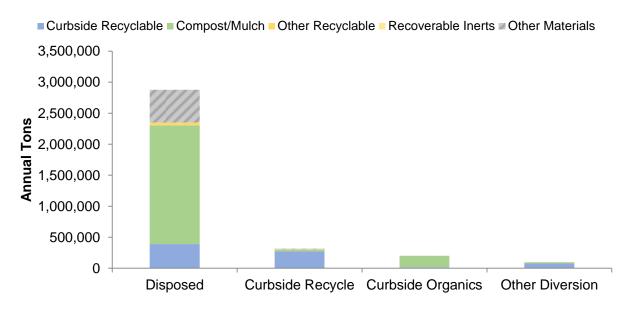
Figure 38 presents the annual tons for each stream in Group 10. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins, and materials diverted through other means such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination— materials not typically acceptable in those streams such as food in recycling bins or glass in organics bins. As shown, approximately 82 percent of total generation at Group 10 businesses went to the Disposed stream.



#### Figure 38. Annual Tons by Waste Stream: Restaurants

Each material stream was composed of many different material types, and each of those material types was assigned to one of the five recoverability groups. Table 95 in Appendix B: Material Definitions details the assignment of material types to recoverability groups. Figure 39 breaks down the potential recoverability (by recoverability group) for each stream in Group 10. As shown, more than 80 percent of the Disposed stream was divertible, mostly **Compost/Mulch** materials.

The Group 10 Curbside Recycle contamination rate was 15 percent, and the Curbside Organics contamination rate was 10 percent.



#### Figure 39. Recoverability by Stream: Restaurants

Figure 40 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 40 illustrates, approximately 61 percent of total generation in Group 10 was material in the **Compost/Mulch** recoverability group, and approximately 22 percent was **Curbside Recyclable**. When combined, divertible materials accounted for roughly 84 percent of the Group 10 generation. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.

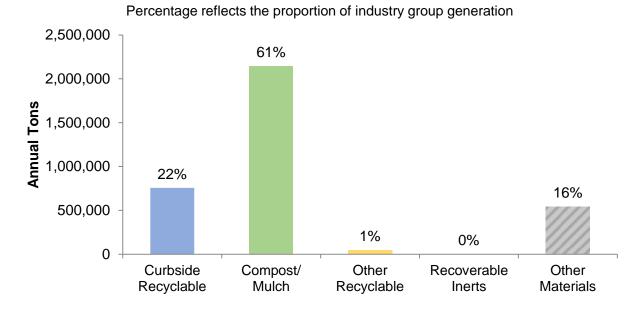


Figure 40. Recoverability of Materials Generated in the Restaurants Sector

Table 56 presents detailed composition results for each stream in Group 10, as well as for the total group generation.

## Table 56. Composition Summary: Restaurants

Material	Est. %	bosed Est. Tons	Est. %	e Recycle Est. Tons	Est. %	e Organics Est. Tons	Est. %	iversion Est. Tons	Est. %	eneration Est. Tons
Paper	25.9%	746,481	68.1%	215,250	2.9%	5,852	20.4%	20,228	28.3%	987,811
Uncoated Corrugated Cardboard	2.0%	56,636	61.3%	193,718	1.0%	2,074	19.5%	19,353	7.8%	271,780
Paper Bags	0.3%	8,983	0.3%	1,006	0.0%	0	0.0%	0	0.3%	9,989
Newspaper White Ledger Paper	2.6% 0.7%	76,093 19,631	0.3% 0.4%	884 1,145	0.4% 0.0%	750 0	0.4% 0.1%	410 101	2.2% 0.6%	78,136 20,877
Other Office Paper	0.7%	9,087	0.4%	1,145	0.0%	0	0.1%	0	0.8%	10,959
Magazines and Catalogs	0.2%	6,468	0.4%	1,183	0.0%	0	0.0%	0	0.2%	7,652
Phone Books and Directories	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Other Miscellaneous Paper - Compostable	0.6%	16,158	1.5%	4,834	0.9%	1,897	0.0%	0	0.7%	22,890
Other Miscellaneous Paper - Other	2.1%	59,722	1.8%	5,808	0.0%	0	0.4%	365	1.9%	65,895
Remainder/Composite Paper - Compostable	12.2%	350,240	0.9%	2,870	0.3%	568	0.0%	0	10.1%	353,679
Remainder/Composite Paper - Other Glass	5.0% 2.7%	143,463 <b>79,059</b>	0.6% <b>12.0%</b>	1,929 <b>37,982</b>	0.3% <b>6.8%</b>	563 <b>13,866</b>	0.0% <b>54.6%</b>	0 54,175	4.2% 5.3%	145,954 <b>185,082</b>
Clear Glass Bottles and Containers	1.6%	45,721	5.2%	16,328	2.5%	5,019	5.9%	5,875	2.1%	72,943
Green Glass Bottles and Containers	0.5%	14,312	5.4%	17,121	3.6%	7,325	13.4%	13,239	1.5%	51,997
Brown Glass Bottles and Containers	0.5%	13,681	1.3%	4,081	0.8%	1,522	35.4%	35,061	1.6%	54,345
Other Glass Colored Bottles and Containers	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Flat Glass	0.0%	59	0.0%	0	0.0%	0	0.0%	0	0.0%	59
Remainder/Composite Glass	0.2%	5,286	0.1%	452	0.0%	0	0.0%	0	0.2%	5,738
Metal	2.1%	61,208	2.8%	8,738	0.4%	717	4.0%	3,986	2.1%	74,648
Tin/Steel Cans Major Appliances	1.1% 0.0%	31,374 0	2.4% 0.0%	7,616 0	0.2% 0.0%	347 0	1.4% 0.0%	1,418 0	1.2% 0.0%	40,755 0
Used Oil Filters	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Other Ferrous	0.4%	12,115	0.0%	0	0.0%	55	0.1%	77	0.4%	12,248
Aluminum Cans	0.1%	4,157	0.2%	748	0.0%	61	2.5%	2,491	0.2%	7,456
Other Non-Ferrous	0.2%	5,191	0.1%	260	0.1%	254	0.0%	0	0.2%	5,704
Remainder/Composite Metal	0.3%	8,371	0.0%	115	0.0%	0	0.0%	0	0.2%	8,485
Electronics	0.0%	0	0.0%	134	0.0%	0	0.1%	66	0.0%	200
Brown Goods	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Computer-related Electronics Other Small Consumer Electronics	0.0% 0.0%	0	0.0% 0.0%	0 134	0.0% 0.0%	0 0	0.1% 0.0%	66 0	0.0% 0.0%	66 134
Video Display Devices	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Plastic	12.2%	350,384	9.8%	30,907	1.2%	2,452	0.2%	165	11.0%	383,909
PETE Plastic Containers	0.6%	17,174	2.6%	8,307	0.2%	436	0.1%	86	0.7%	26,004
HDPE Plastic Containers	0.6%	17,639	2.5%	7,965	0.0%	0	0.0%	27	0.7%	25,631
Miscellaneous Plastic Containers	0.4%	10,363	0.8%	2,497	0.1%	116	0.0%	0	0.4%	12,976
Plastic Trash Bags	3.3%	94,146	0.3%	1,040	0.1%	121	0.0%	0	2.7%	95,308
Plastic Grocery and Other Merchandise Bags	0.1% 0.0%	3,587 936	0.0% 0.1%	124 349	0.0% 0.1%	0 138	0.0% 0.0%	0 0	0.1% 0.0%	3,711 1,423
Non-Bag Commercial and Industrial Packaging Film Film Products	0.0%	930	0.1%	349 92	0.1%	130	0.0%	0	0.0%	92
Other Film - Other	3.3%	94,003	1.4%	4,414	0.8%	1,636	0.0%	0	2.9%	100,053
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	929	1.4%	4,272	0.0%	0	0.1%	52	0.2%	5,253
Durable Plastic Items - Other	0.2%	6,590	0.0%	119	0.0%	0	0.0%	0	0.2%	6,709
Remainder/Composite Plastic	3.7%	105,016	0.5%	1,727	0.0%	6	0.0%	0	3.1%	106,749
Other Organic	54.9%	1,580,144	7.2%	22,903	88.7%	179,540	20.7%	20,545	51.6%	1,803,133
Food	50.8%	1,461,319	5.6%	17,706	73.2%	148,160	20.7%	20,545	47.2%	1,647,730
Leaves and Grass Prunings and Trimmings	1.8% 0.4%	53,140 10,440	0.0% 1.1%	0 3,512	15.3% 0.0%	30,876 0	0.0% 0.0%	0 0	2.4% 0.4%	84,016 13,952
Branches and Stumps	0.0%	0	0.0%	0,512	0.0%	0	0.0%	0	0.4%	0
Manures	0.0%	Ő	0.0%	Ő	0.0%	Ő	0.0%	Ő	0.0%	Ő
Textiles	0.7%	20,721	0.0%	0	0.2%	505	0.0%	0	0.6%	21,226
Carpet	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Remainder/Composite Organic	1.2%	34,524	0.5%	1,685	0.0%	0	0.0%	0	1.0%	36,209
Inerts and Other	1.3%	36,294	0.1%	319	0.0%	0	0.0%	0	1.0%	36,612
Concrete	0.0% 0.0%	0	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.0% 0.0%	0
Asphalt Paving Asphalt Roofing	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Clean Dimensional Lumber	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Clean Engineered Wood	0.0%	0	0.0%	Ő	0.0%	Ő	0.0%	Ő	0.0%	0
Clean Pallets & Crates	0.8%	21,613	0.0%	0	0.0%	0	0.0%	0	0.6%	21,613
Other Wood Waste	0.4%	12,652	0.0%	0	0.0%	0	0.0%	0	0.4%	12,652
Gypsum Board	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Rock, Soil and Fines	0.0%	1,118	0.0%	0	0.0%	0	0.0%	0	0.0%	1,118
Remainder/Composite Inerts and Other Household Hazardous Waste	0.0% 0.0%	912 <b>441</b>	0.1% <b>0.0%</b>	319 0	0.0% <b>0.0%</b>	0 0	0.0% <b>0.0%</b>	0 0	0.0% <b>0.0%</b>	1,230 <b>441</b>
Paint	0.0%	441	0.0%	0	0.0%	0	0.0%	0	0.0%	441
Vehicle and Equipment Fluids	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Used Oil	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Batteries	0.0%	59	0.0%	0	0.0%	0	0.0%	0	0.0%	59
Remainder/Composite Household Hazardous	0.0%	382	0.0%	0	0.0%	0	0.0%	0	0.0%	382
Special Waste	0.6%	18,495	0.0%	0	0.0%	0	0.0%	0	0.5%	18,495
Ash Tracted Medical Wests	0.6%	18,495	0.0%	0	0.0%	0	0.0%	0	0.5%	18,495
Treated Medical Waste Bulky Items	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.0% 0.0%	0 0
Tires	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Remainder/Composite Special Waste	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
	0.1%	4,147	0.0%	ŏ	0.0%	Ő	0.0%	ŏ	0.1%	4,147
Mixed Residue		-								
	100.09/	2 976 652	100.00/	246 024	100.00/	202 422	100 00/	00 407	100 00/	2 404 470
Mixed Residue Totals Streams Sampled	100.0%	<b>2,876,653</b> 51	100.0%	<b>316,231</b> 21	100.0%	<b>202,428</b>	100.0%	<b>99,167</b>	100.0%	3,494,479 96

Percentages for material types may not total 100% due to rounding. Tables detailing the composition for all 82 materials can be found in Appendix E: Detailed Composition Tables

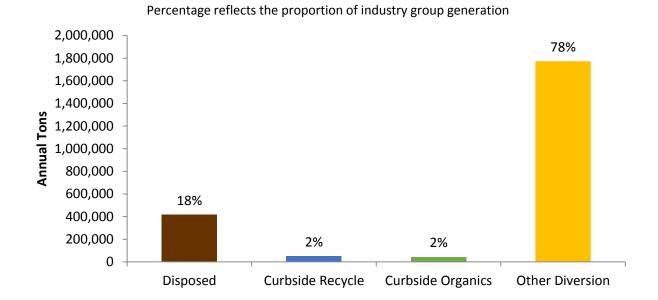
# Findings for Retail Trade – Food & Beverage Stores

Table 57 presents key findings for the Retail Trade – Food & Beverage Stores industry group (Group 11). Statewide, Group 11 disposed of nearly 418,000 tons and diverted nearly 1.9 million tons, which worked out to an 82 percent diversion rate and 6.64 TPEPY. Group 11 had both the highest diversion rate and the highest generation rate among all industry groups. *Food* was the most prevalent divertible material type in the Group 11 Disposed stream, accounting for 42 percent of disposal. Among all the industry groups, Group 11 diverted the most material, by weight.

Retail Trade - Food & Beverage Stores									
Key Findings and Metrics									
Disposed	Diverted	Disposed	Diverted	Diversion					
TPEPY	TPEPY	Tons	Tons	Rate					
1.21	5.43	417,791	1,868,403	82%					
Top Three Div	version Opportu	inities in Dispos	sed Stream						
<ul> <li>Food (42)</li> </ul>	2%, 173,504 ton	s)							
<ul> <li>Remainder/Composite Paper - Compostable (9%, 37,501 tons)</li> </ul>									
Other M	iscellaneous Pap	per - Other (3%,	13,492 tons)						

Table 57. Key Findings and Metrics: Retail Trade – Food & Beverage Stores

Figure 41 presents the annual tons for each stream in Group 11. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins, and materials diverted through other means such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination—materials not typically acceptable in those streams such as food in recycling bins or glass in organics bins. As shown, more than three-quarters of total generation at Group 11 businesses went to the Other Diversion stream. Group 11 businesses reported backhauling and selling directly to commodity markets large quantities of both *uncoated corrugated cardboard* and *food*. The high proportion of Other Diversion, and the high overall diversion and generation rates, are primarily due to these activities.



#### Figure 41. Annual Tons by Waste Stream: Retail Trade – Food & Beverage Stores

California Commercial Generator Waste Study

Each material stream was composed of many different material types, and each of those material types was assigned to one of the five recoverability groups. Table 95 in Appendix B: Material Definitions details the assignment of material types to recoverability groups. Figure 42 breaks down the potential recoverability (by recoverability group) for each stream in Group 11. As shown, approximately three-quarters of the Disposed stream was divertible, mostly **Compost/Mulch** materials.

The Group 11 Curbside Recycle contamination rate was 24 percent, and the Curbside Organics contamination rate was 2 percent.

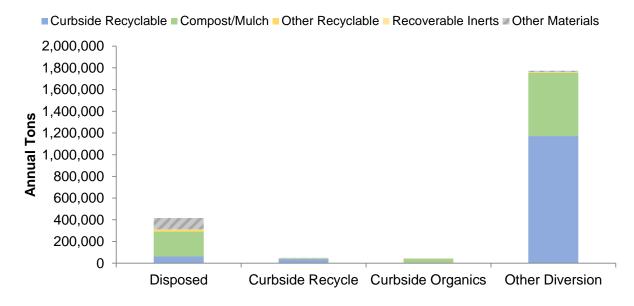
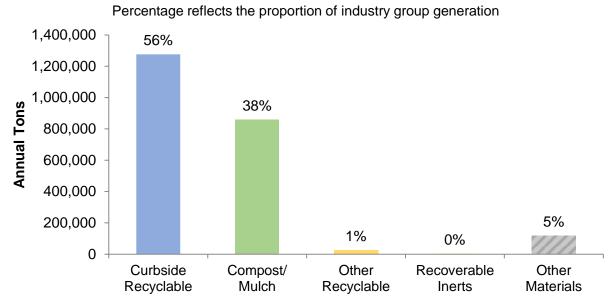




Figure 43 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 43 illustrates, approximately 56 percent of total generation in Group 11 was material in the **Curbside Recyclable** recoverability group, and approximately 38 percent was **Compost/Mulch**. When combined, divertible materials accounted for roughly 95 percent of the Group 11 generation. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.



Beverage Stores Sector

Figure 43. Recoverability of Materials Generated in the Retail Trade – Food &

Table 58 presents detailed composition results for each stream in Group 11, as well as for the total group generation.

## Table 58. Composition Summary: Retail Trade – Food & Beverage Stores

Material	Disp Est. %	osed Est. Tons	Curbside Est. %	Recycle Est. Tons	Curbside Est. %	Organics Est. Tons	Other I Est. %	Diversion Est. Tons	Total G Est. %	eneration Est. Tons
Paper	28.2%	117,858	52.6%	26,886	10.2%	4,504	66.2%	1,173,870	57.9%	1,323,118
Uncoated Corrugated Cardboard	2.5%	10,447	38.0%	19,431	1.9%	830	65.3%	1,158,555	52.0%	1,189,263
Paper Bags	0.4%	1,512	0.9%	451	0.0%	0	0.0%	0	0.1%	1,963
Newspaper	2.3%	9,744	0.0%	9	0.0%	0	0.0%	0	0.4%	9,753
White Ledger Paper Other Office Paper	1.0% 1.6%	4,028 6,840	0.6% 2.3%	303 1,193	0.0% 0.0%	0 0	0.0% 0.0%	862 130	0.2% 0.4%	5,193 8,163
Magazines and Catalogs	0.2%	911	2.5%	1,193	0.0%	0	0.0%	0	0.4%	2,196
Phone Books and Directories	0.0%	73	0.0%	1,200	0.0%	0	0.0%	0	0.0%	73
Other Miscellaneous Paper - Compostable	0.7%	2,961	4.2%	2,162	0.8%	348	0.1%	959	0.3%	6,430
Other Miscellaneous Paper - Other	3.2%	13,492	1.9%	967	0.0%	0	0.0%	697	0.7%	15,156
Remainder/Composite Paper - Compostable	9.0%	37,501	0.7%	360	7.5%	3,326	0.7%	12,119	2.3%	53,307
Remainder/Composite Paper - Other	7.3%	30,348	1.4%	725	0.0%	0	0.0%	548	1.4%	31,622
Glass	2.3%	9,451	11.6%	5,942	0.0%	0	0.4%	7,708	1.0%	23,101
Clear Glass Bottles and Containers	0.7%	2,809	9.3%	4,746	0.0%	0	0.2%	3,744	0.5%	11,300
Green Glass Bottles and Containers	0.3%	1,346	0.7%	346	0.0%	0	0.1%	2,461	0.2%	4,153
Brown Glass Bottles and Containers Other Glass Colored Bottles and Containers	0.7% 0.0%	2,776 0	1.7% 0.0%	849 0	0.0% 0.0%	0	0.1% 0.0%	1,503 0	0.2% 0.0%	5,128 0
Flat Glass	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Remainder/Composite Glass	0.6%	2,520	0.0%	0	0.0%	0	0.0%	0	0.0%	2,520
Metal	2.0%	8,394	4.9%	2,520	0.0 % 0.1%	56	0.0 % 0.1%	1,319	0.1%	12,289
Tin/Steel Cans	0.4%	1,821	4.0%	2,058	0.0%	0	0.0%	20	0.2%	3,899
Major Appliances	0.0%	0	0.0%	2,000	0.0%	Ő	0.0%	0	0.0%	0,000
Used Oil Filters	0.0%	0 0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Other Ferrous	0.6%	2,634	0.0%	0	0.0%	0	0.0%	655	0.1%	3,289
Aluminum Cans	0.3%	1,074	0.4%	208	0.0%	0	0.0%	640	0.1%	1,921
Other Non-Ferrous	0.2%	1,011	0.5%	255	0.1%	56	0.0%	4	0.1%	1,326
Remainder/Composite Metal	0.4%	1,854	0.0%	0	0.0%	0	0.0%	0	0.1%	1,854
Electronics	0.1%	320	0.4%	219	0.0%	0	0.0%	301	0.0%	840
Brown Goods	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Computer-related Electronics	0.1%	320	0.0%	0	0.0%	0	0.0%	267	0.0%	587
Other Small Consumer Electronics	0.0%	0	0.4%	219	0.0%	0	0.0%	0	0.0%	219
Video Display Devices	0.0%	0	0.0%	0	0.0%	0	0.0%	34	0.0%	34
Plastic PETE Plastic Containers	<b>16.0%</b> 0.7%	66,645 2,902	<b>23.6%</b> 7.0%	<b>12,037</b> 3,581	<b>0.3%</b> 0.0%	<b>125</b> 5	<b>1.1%</b> 0.2%	<b>19,753</b> 3,214	<b>4.3%</b> 0.4%	<b>98,561</b> 9,701
HDPE Plastic Containers	0.7%	2,502	2.7%	1,390	0.0%	14	0.2%	3,214	0.4%	3,531
Miscellaneous Plastic Containers	0.5%	1,977	4.4%	2,243	0.0%	0	0.0%	823	0.2%	5,044
Plastic Trash Bags	3.0%	12,394	1.4%	697	0.0%	Ő	0.0%	870	0.6%	13,961
Plastic Grocery and Other Merchandise Bags	0.4%	1,482	0.4%	195	0.1%	39	0.0%	0	0.1%	1,715
Non-Bag Commercial and Industrial Packaging Film	0.6%	2,494	0.5%	241	0.0%	0	0.4%	6,545	0.4%	9,280
Film Products	0.4%	1,862	0.2%	123	0.0%	0	0.2%	4,144	0.3%	6,129
Other Film - Other	4.8%	20,061	1.3%	640	0.2%	68	0.0%	736	0.9%	21,504
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	207	3.7%	1,870	0.0%	0	0.0%	182	0.1%	2,260
Durable Plastic Items - Other	0.5%	1,933	0.2%	103	0.0%	0	0.1%	1,304	0.1%	3,340
Remainder/Composite Plastic	4.6%	19,207	1.9%	954	0.0%	0	0.1%	1,935	1.0%	22,095
Other Organic	46.7%	195,092	6.7%	3,435	89.4%	39,469	27.7%	491,810	31.9%	729,806
Food	41.5%	173,504	6.3%	3,235	61.1%	26,959	27.7%	491,808	30.4%	695,505
Leaves and Grass Prunings and Trimmings	1.0% 0.1%	4,287 356	0.0% 0.0%	0 0	28.3% 0.0%	12,510 0	0.0% 0.0%	0 0	0.7% 0.0%	16,797 356
Branches and Stumps	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Manures	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Textiles	1.2%	5,197	0.2%	78	0.0%	0	0.0%	2	0.2%	5,277
Carpet	0.5%	2,272	0.0%	0	0.0%	Ő	0.0%	0	0.1%	2,272
Remainder/Composite Organic	2.3%	9,478	0.2%	122	0.0%	0	0.0%	0	0.4%	9,600
Inerts and Other	4.4%	18,367	0.1%	61	0.0%	0	4.4%	78,072	4.2%	96,499
Concrete	0.8%	3,390	0.0%	0	0.0%	0	0.0%	0	0.1%	3,390
Asphalt Paving	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Asphalt Roofing	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Clean Dimensional Lumber	0.0%	7	0.1%	61	0.0%	0	0.0%	0	0.0%	67
Clean Engineered Wood	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Clean Pallets & Crates	2.4%	9,974	0.0%	0	0.0%	0	4.4%	77,683	3.8%	87,657
Other Wood Waste	0.2%	627	0.0%	0	0.0%	0	0.0%	0	0.0%	627
Gypsum Board Rock. Soil and Fines	0.0%	8	0.0%	0	0.0%	0	0.0%	0	0.0%	8
Rock, Soil and Fines Remainder/Composite Inerts and Other	0.1% 1.0%	388 3,973	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.0% 0.0%	0 389	0.0% 0.2%	388 4,362
Household Hazardous Waste	1.0% 0.1%	3,973 <b>331</b>	0.0% 0.0%	0	0.0% 0.0%	0	0.0% 0.0%	389 0	0.2% 0.0%	4,362 <b>331</b>
Paint	0.1%	331	0.0%	0	0.0%	0	0.0%	0	0.0%	331
Vehicle and Equipment Fluids	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Used Oil	0.0%	235	0.0%	0	0.0%	0	0.0%	0	0.0%	235
Batteries	0.0%	12	0.0%	0	0.0%	0	0.0%	0	0.0%	12
Remainder/Composite Household Hazardous	0.0%	84	0.0%	0	0.0%	0	0.0%	0	0.0%	84
Special Waste	0.1%	285	0.0%	Ő	0.0%	Ő	0.0%	316	0.0%	601
Ash	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Treated Medical Waste	0.0%	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%	316	0.0%	316
Tires	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Remainder/Composite Special Waste	0.1%	285	0.0%	0	0.0%	0	0.0%	0	0.0%	285
Mixed Residue	0.3%	1,047	0.0%	0	0.0%	0	0.0%	0	0.0%	1,047
Totals Streams Sampled	100.0% 5	<b>417,791</b>	<b>100.0%</b>	51,099	100.0%	<b>44,153</b>	100.0%	<b>1,773,150</b> 79	100.0%	2,286,193

Tables detailing the composition for all 82 materials can be found in Appendix E: Detailed Composition Tables

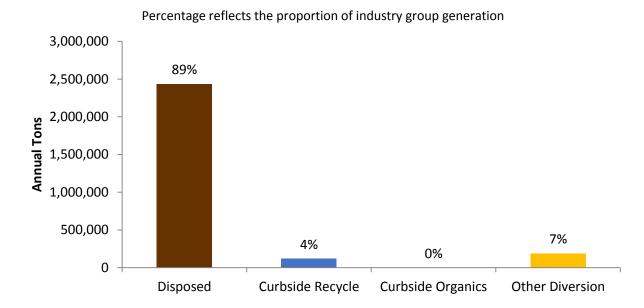
# Findings for Retail Trade – All Other

Table 59 presents key findings for the Retail Trade – All Other industry group (Group 12). Statewide, Group 12 disposed of more than 2.4 million tons and diverted approximately 306,000 tons. Total generation was approximately 2.41 TPEPY. *Food* was the most prevalent divertible material type in the Group 12 Disposed stream, accounting for 18 percent of disposal.

Retail Trade - All Other									
Key Findings and Metrics									
Disposed	Diverted	Disposed	Diverted	Diversion					
TPEPY	TPEPY	Tons	Tons	Rate					
2.14	0.27	2,433,989	306,012	11%					
Top Three Div	ersion Opportu	nities in Dispos	sed Stream						
<ul> <li>Food (18)</li> </ul>	3%, 437,469 tons	s)							
<ul> <li>Remainder/Composite Paper - Compostable (9%, 209,655 tons)</li> </ul>									
<ul> <li>Clean Pa</li> </ul>	allets & Crates (6	6%, 135,886 ton	s)						

## Table 59. Key Findings and Metrics: Retail Trade – All Other

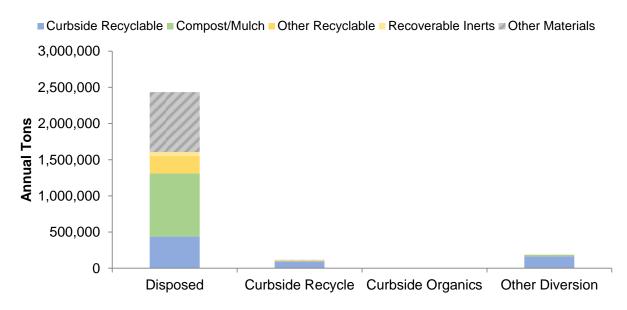
The Disposed stream accounted for approximately 89 percent of Group 12 generation. Figure 44 presents the annual tons for each stream in Group 12. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins, and materials diverted through other means such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination materials not typically acceptable in those streams such as food in recycling bins or glass in organics bins.



#### Figure 44. Annual Tons by Waste Stream: Retail Trade – All Other

Each material stream was composed of many different material types, and each of those material types was assigned to one of the five recoverability groups. Table 95 in Appendix B: Material Definitions details the assignment of material types to recoverability groups. Figure 45 breaks down the potential recoverability (by recoverability group) for each stream in Group 12. As shown, approximately two-thirds of the Disposed stream was divertible, mostly **Compost/Mulch** materials.

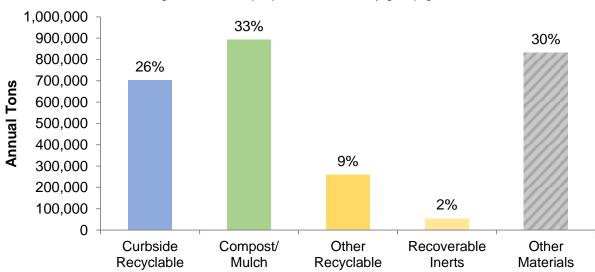
The Group 12 Curbside Recycle contamination rate was 18 percent. The study did not include any sites from this group with Curbside Organics.



#### Figure 45. Recoverability by Stream: Retail Trade – All Other

Figure 46 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 46 illustrates, one-third of total generation in Group 12 was material in the **Compost/Mulch** recoverability group, and approximately 30 percent was **Other Materials**. When combined, divertible materials accounted for roughly 70 percent of the Group 12 generation. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.

# Figure 46. Recoverability of Materials Generated in the Retail Trade – All Other Sector



Percentage reflects the proportion of industry group generation

Table 60 presents detailed composition results for each stream in Group 12, as well as for the total group generation.

## Table 60. Composition Summary: Retail Trade – All Other

Material	Est. %	posed Est. Tons		e Recycle Est. Tons	Est. % E	st. Tons		iversion Est. Tons	Est. %	Total Generation Est. % Est. Tons	
Paper	26.2%	637,019	81.5%	96,102	-		87.8%	165,287	32.8%	898,407	
Uncoated Corrugated Cardboard	3.6%	86,682	72.1%	84,949	-	-	87.8%	165,222	12.3%	336,853	
Paper Bags	0.5%	11,311	0.7%	855	-	-	0.0%	0	0.4%	12,165	
Newspaper	1.9%	45,206	0.2%	228	-	-	0.0%	0	1.7%	45,435	
White Ledger Paper Other Office Paper	1.9% 2.2%	45,331 52,929	0.9% 0.9%	1,092 1,094	-	-	0.0% 0.0%	0 65	1.7% 2.0%	46,424 54,087	
Magazines and Catalogs	0.7%	17,659	1.5%	1,094	-	-	0.0%	00	0.7%	19,410	
Phone Books and Directories	0.0%	953	0.2%	214	_	-	0.0%	0	0.0%	1,167	
Other Miscellaneous Paper - Compostable	0.4%	9,578	1.0%	1,172	-	-	0.0%	0	0.4%	10,750	
Other Miscellaneous Paper - Other	3.4%	83,610	3.7%	4,326	-	-	0.0%	0	3.2%	87,935	
Remainder/Composite Paper - Compostable	8.6%	209,655	0.2%	216	-	-	0.0%	0	7.7%	209,871	
Remainder/Composite Paper - Other	3.0%	74,105	0.2%	205	-	-	0.0%	0	2.7%	74,311	
Glass	2.1%	51,520	0.2%	284	-	-	0.2%	351	1.9%	52,154	
Clear Glass Bottles and Containers	1.4%	33,128	0.2%	216	-	-	0.2%	351	1.2%	33,695	
Green Glass Bottles and Containers	0.3%	6,107	0.0%	0	-	-	0.0%	0	0.2%	6,107	
Brown Glass Bottles and Containers	0.2%	4,042	0.1%	68	-	-	0.0%	0	0.1%	4,109	
Other Glass Colored Bottles and Containers Flat Glass	0.0%	0	0.0%	0	-	-	0.0%	0 0	0.0%	0	
Remainder/Composite Glass	0.0% 0.3%	8,242	0.0% 0.0%	0	-	-	0.0% 0.0%	0	0.0% 0.3%	0 8,242	
Metal	5.7%	0,242 139,103	1.5%	1,795	-	-	0.0% 0.3%	624	5.2%	0,242 141,522	
Tin/Steel Cans	0.3%	6,190	0.0%	44	-		0.0%	024	0.2%	6,235	
Major Appliances	0.0%	0,130	0.0%	-++ 0	_	-	0.0%	0	0.2%	0,200	
Used Oil Filters	0.0%	748	0.0%	0	-	-	0.0%	0	0.0%	748	
Other Ferrous	1.4%	34,307	1.0%	1,130	-	-	0.0%	227	1.3%	35,664	
Aluminum Cans	0.2%	5,607	0.1%	89	-	-	0.2%	321	0.2%	6,017	
Other Non-Ferrous	0.9%	21,774	0.1%	146	-	-	0.0%	76	0.8%	21,996	
Remainder/Composite Metal	2.9%	70,476	0.3%	386	-	-	0.0%	0	2.6%	70,862	
Electronics	0.2%	5,843	0.0%	42	-	-	0.7%	1,343	0.3%	7,228	
Brown Goods	0.0%	0	0.0%	0	-	-	0.0%	0	0.0%	0	
Computer-related Electronics	0.0%	0	0.0%	0	-	-	0.7%	1,343	0.0%	1,343	
Other Small Consumer Electronics	0.1%	2,393	0.0%	42	-	-	0.0%	0	0.1%	2,434	
Video Display Devices	0.1%	3,450	0.0%	0	-	-	0.0%	0	0.1%	3,450	
Plastic	13.6%	331,572	9.7%	11,488	-	-	1.2%	2,257	12.6%	345,316	
PETE Plastic Containers	0.9%	21,814	0.5%	546	-	-	0.6%	1,199	0.9%	23,559	
HDPE Plastic Containers	0.5%	13,148	0.8%	892	-	-	0.0%	39	0.5%	14,079	
Miscellaneous Plastic Containers	0.2%	5,209	0.1%	122	-	-	0.0%	0	0.2%	5,331	
Plastic Trash Bags	2.1%	50,209	0.1%	121	-	-	0.0%	52	1.8%	50,381	
Plastic Grocery and Other Merchandise Bags	0.3%	6,896	4.0%	4,687	-	-	0.0%	0	0.4%	11,583	
Non-Bag Commercial and Industrial Packaging Film Film Products	0.6% 0.0%	15,208 0	1.9% 0.0%	2,274 0	-	-	0.5% 0.0%	968 0	0.7% 0.0%	18,449 0	
Other Film - Other	2.5%	61,325	1.1%	1,281	-	-	0.0%	0	2.3%	62,605	
Durable Plastic Items - #2 and #5 Bulky Rigids	0.2%	4,499	0.0%	1,201	_	-	0.0%	0	0.2%	4,499	
Durable Plastic Items - Other	2.0%	49,853	0.0%	270	_	-	0.0%	0	1.8%	50,123	
Remainder/Composite Plastic	4.2%	103,411	1.1%	1,296	-	-	0.0%	Ő	3.8%	104,707	
Other Organic	33.8%	822,508	6.7%	7,898	-	-	1.6%	2,956	30.4%	833,362	
Food	18.0%	437,469	0.8%	908	-	-	1.6%	2,956	16.1%	441,333	
Leaves and Grass	2.4%	58,655	0.0%	0	-	-	0.0%	0	2.1%	58,655	
Prunings and Trimmings	0.4%	9,855	0.0%	0	-	-	0.0%	0	0.4%	9,855	
Branches and Stumps	0.0%	0	0.0%	0	-	-	0.0%	0	0.0%	0	
Manures	0.0%	0	0.0%	0	-	-	0.0%	0	0.0%	0	
Textiles	4.4%	107,155	0.0%	1	-	-	0.0%	0	3.9%	107,156	
Carpet	1.7%	40,931	5.9%	6,989	-	-	0.0%	0	1.7%	47,919	
Remainder/Composite Organic	6.9%	168,443	0.0%	0	-	-	0.0%	0	6.1%	168,443	
Inerts and Other	16.2%	394,471	0.1%	131	-	-	7.9%	14,951	14.9%	409,554	
Concrete	0.0%	25	0.0%	0	-	-	0.0%	0	0.0%	25	
Asphalt Paving	0.0%	0 4 760	0.0%	0	-	-	0.0%	0	0.0%	0 4 760	
Asphalt Roofing Clean Dimensional Lumber	0.2% 0.4%	4,760 10,646	0.0% 0.1%	0 131	_	-	0.0% 0.0%	0 0	0.2% 0.4%	4,760 10,777	
Clean Engineered Wood	0.4%	332	0.1%	0		-	0.0%	0	0.4%	332	
Clean Pallets & Crates	5.6%	135,886	0.0%	0	-	-	7.9%	14,951	5.5%	150.838	
Other Wood Waste	3.3%	80,619	0.0%	0	-	-	0.0%	14,551	2.9%	80,619	
Gypsum Board	1.4%	34,448	0.0%	0	-	-	0.0%	0	1.3%	34,448	
Rock. Soil and Fines	0.6%	14,668	0.0%	0	-	-	0.0%	0	0.5%	14,668	
Remainder/Composite Inerts and Other	4.6%	113,086	0.0%	0	-	-	0.0%	0	4.1%	113,086	
Household Hazardous Waste	0.2%	5,239	0.0%	13	-	-	0.0%	ŏ	0.2%	5,251	
Paint	0.0%	464	0.0%	0	-	-	0.0%	0	0.0%	464	
Vehicle and Equipment Fluids	0.1%	3,266	0.0%	Ő	-	-	0.0%	0 0	0.1%	3,266	
Used Oil	0.0%	0	0.0%	Ō	-	-	0.0%	0	0.0%	0	
Batteries	0.0%	312	0.0%	0	-	-	0.0%	0	0.0%	312	
Remainder/Composite Household Hazardous	0.0%	1,196	0.0%	13	-	-	0.0%	0	0.0%	1,209	
Special Waste	1.6%	39,654	0.0%	0	-	-	0.2%	383	1.5%	40,037	
Ash	0.0%	0	0.0%	0	-	-	0.0%	0	0.0%	0	
Treated Medical Waste	0.0%	0	0.0%	0	-	-	0.0%	0	0.0%	0	
Bulky Items	1.6%	39,255	0.0%	0	-	-	0.2%	383	1.4%	39,638	
Tires	0.0%	0	0.0%	0	-	-	0.0%	0	0.0%	0	
Remainder/Composite Special Waste	0.0%	399	0.0%	0	-	-	0.0%	0	0.0%	399	
Mixed Residue	0.3%	7,062	0.1%	108	-	-	0.0%	0	0.3%	7,170	
Totals Streams Sampled	100.0%	<b>2,433,989</b> 53	<b>100.0%</b>	117,861 8	- 0	-	<b>100.0%</b>	188,152	100.0%	2,740,001 97	

Tables detailing the composition for all 82 materials can be found in Appendix E: Detailed Composition Tables

# Findings for Services – Management, Administrative, Support, & Social

Table 61 presents key findings for the Services – Management, Administrative, Support, & Social industry group (Group 13). Statewide, Group 13 disposed of more than 1.5 million tons and diverted more than 1.4 million tons. Total generation was approximately 1.44 TPEPY. *Food* was the most prevalent divertible material type in the Group 13 Disposed stream, accounting for 25 percent of disposal.

Table 61. Key Findings and Metrics: Services – I Support, & Social	Managemer	nt, Administrativ	e,
Sorviços - Managoment Administrativo	Support	8 Social	

Services - Management, Administrative, Support, & Social								
Key Findings and Metrics								
Disposed	Diverted	Disposed	Diverted	Diversion				
TPEPY	TPEPY	Tons	Tons	Rate				
0.74	0.70	1,514,667	48%					
Top Three Div	version Opportu	inities in Dispos	sed Stream					
<ul> <li>Food (25)</li> </ul>	5%, 376,502 ton	s)						
<ul> <li>Remainder/Composite Paper - Compostable (11%, 164,498 tons)</li> </ul>								
<ul> <li>Leaves a</li> </ul>	and Grass (6%, 8	86,284 tons)						

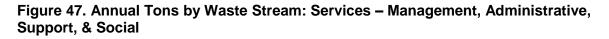
For Group 13, in addition to normalizing generation on a per employee basis (TPEPY), the project team normalized generation by the estimated amount of office space occupied by each generator site. As shown in Table 62, Group 13 businesses generated an estimated 2.83 tons per thousand square feet of office space per year. The number of sites used in this calculation is noted in Table 98 in Appendix C: Description of Calculations.

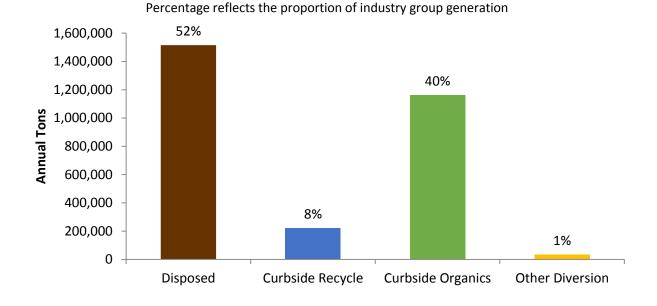
 Table 62. Generation Rate Summary by Weight: Services – Management, Administrative,

 Support, & Social (tons per 1,000 sq. ft. per year)

Tons per 1,000 Sq. Ft. per Year	Disposed	Curbside Recycle	Curbside Organics	Other Diversion	Generation
Services - Management, Administrative, Support, & Social	1.18	0.20	1.41	0.04	2.83

Figure 47 presents the annual tons for each stream in Group 13. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins, and materials diverted through other means, such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination— materials not typically acceptable in those streams such as food in recycling bins or glass in organics bins. Curbside Organics are 40 percent of total generation in Group 13. This group includes property management agencies and landscapers, some of whom haul grass and prunings collected on the job to a central yard, where they are collected as part of the business' Curbside Organics stream.





Each material stream was composed of many different material types, and each of those material types was assigned to one of the five recoverability groups. Table 95 Appendix B: Material Definitions details the assignment of material types to recoverability groups. Figure 48 breaks down the potential recoverability (by recoverability group) for each stream in Group 13. As shown, **Compost/Mulch** materials accounted for almost half of the Disposed stream.

The Group 13 Curbside Recycle contamination rate was 30 percent. No contamination was observed in the Curbside Organics stream.

# Figure 48. Recoverability by Stream: Services – Management, Administrative, Support, & Social

Curbside Recyclable Compost/Mulch Other Recyclable Recoverable Inerts Other Materials

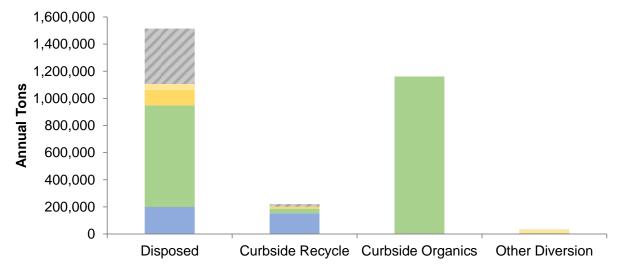
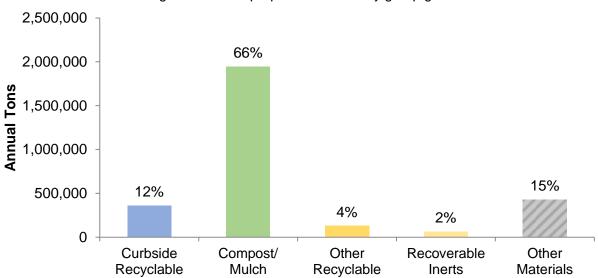


Figure 49 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 49 illustrates, approximately 66 percent of total generation in Group 13 was material in the **Compost/Mulch** recoverability group, and approximately 15 percent was **Other Materials**. When combined, divertible materials accounted for roughly 85 percent of the Group 13 generation. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.

# Figure 49. Recoverability of Materials Generated in the Services – Management, Administrative, Support, & Social Sector



Percentage reflects the proportion of industry group generation

Table 63 presents detailed composition results for each stream in Group 13, as well as for the total group generation.

# Table 63. Composition Summary: Services – Management, Administrative,Support, & Social

Material	Dis Est. %	posed Est. Tons	Curbsid Est. %	le Recycle Est. Tons	Curbside Est. %	e Organics Est. Tons	Other I Est. %	Diversion Est. Tons	Total G Est. %	eneration Est. Tons
Paper	24.1%	364,763	70.5%	156,104	0.0%	0	10.7%	3,690	17.9%	524,557
Uncoated Corrugated Cardboard	1.7%	25,078	36.1%	80,005	0.0%	0	1.6%	551	3.6%	105,634
Paper Bags	0.4%	5,872	1.3%	2,877	0.0%	0	0.1%	26	0.3%	8,774
Newspaper	1.4%	20,872	1.5%	3,293	0.0% 0.0%	0	0.0% 1.1%	0 390	0.8%	24,165
White Ledger Paper Other Office Paper	1.6% 2.1%	24,164 31,117	9.4% 4.4%	20,819 9,740	0.0%	0 0	6.9%	2,382	1.5% 1.5%	45,373 43,239
Magazines and Catalogs	0.8%	12,419	4.2%	9,202	0.0%	ů 0	0.2%	63	0.7%	21,684
Phone Books and Directories	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Other Miscellaneous Paper - Compostable	0.3%	4,711	3.1%	6,879	0.0%	0	0.5%	175	0.4%	11,766
Other Miscellaneous Paper - Other	3.2%	48,264	4.6%	10,106	0.0%	0	0.1%	26	2.0%	58,395
Remainder/Composite Paper - Compostable	10.9%	164,498	2.3%	4,984	0.0%	0	0.2%	70	5.8%	169,552
Remainder/Composite Paper - Other Glass	1.8% <b>1.4%</b>	27,769 <b>21,391</b>	3.7% <b>4.7%</b>	8,200 <b>10,324</b>	0.0% <b>0.0%</b>	0 0	0.0% <b>2.5%</b>	7 870	1.2% <b>1.1%</b>	35,977 <b>32,586</b>
Clear Glass Bottles and Containers	0.5%	7,579	<b>4.7%</b> 1.9%	4,160	0.0%	0	2.5%	870	0.4%	12,609
Green Glass Bottles and Containers	0.0%	703	1.8%	4,000	0.0%	ů 0	0.0%	0,0	0.2%	4,703
Brown Glass Bottles and Containers	0.0%	359	0.5%	1,194	0.0%	0	0.0%	0	0.1%	1,553
Other Glass Colored Bottles and Containers	0.0%	406	0.0%	0	0.0%	0	0.0%	0	0.0%	406
Flat Glass	0.6%	9,736	0.0%	0	0.0%	0	0.0%	0	0.3%	9,736
Remainder/Composite Glass	0.2%	2,608	0.4%	970	0.0%	0	0.0%	0	0.1%	3,578
Metal	3.6%	54,110	2.7%	5,994	0.0%	0	1.8%	626	2.1%	60,731
Tin/Steel Cans	0.4%	5,337	1.7%	3,807	0.0%	0	0.1% 0.0%	40	0.3% 0.0%	9,184
Major Appliances Used Oil Filters	0.0% 0.0%	0 42	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.0%	0 0	0.0%	0 42
Other Ferrous	0.5%	7,023	0.0%	274	0.0%	0	0.0%	225	0.0%	7,523
Aluminum Cans	0.2%	2,951	0.1%	163	0.0%	Ő	1.0%	357	0.1%	3,471
Other Non-Ferrous	1.5%	22,479	0.8%	1,725	0.0%	0	0.0%	4	0.8%	24,208
Remainder/Composite Metal	1.1%	16,278	0.0%	25	0.0%	0	0.0%	0	0.6%	16,303
Electronics	2.0%	29,910	0.1%	286	0.0%	0	4.7%	1,622	1.1%	31,818
Brown Goods	0.1%	1,273	0.0%	0	0.0%	0	0.1%	51	0.0%	1,324
Computer-related Electronics	0.1%	993	0.1%	286	0.0%	0	2.8%	966	0.1%	2,245
Other Small Consumer Electronics Video Display Devices	0.0% 1.8%	104 27,541	0.0% 0.0%	0	0.0% 0.0%	0 0	0.0% 1.7%	0 605	0.0% 1.0%	104 28,145
Plastic	10.8%	163,240	10.0%	22,056	0.0%	0	6.3%	2,187	6.4%	187.483
PETE Plastic Containers	0.4%	5,933	1.3%	2,822	0.0%	õ	0.6%	208	0.3%	8,963
HDPE Plastic Containers	0.3%	4,245	0.3%	610	0.0%	0	1.5%	502	0.2%	5,356
Miscellaneous Plastic Containers	0.3%	4,984	0.5%	1,118	0.0%	0	0.1%	31	0.2%	6,133
Plastic Trash Bags	2.2%	33,468	0.5%	1,153	0.0%	0	0.0%	0	1.2%	34,621
Plastic Grocery and Other Merchandise Bags	0.2%	3,121	0.7%	1,476	0.0%	0	0.0%	0	0.2%	4,597
Non-Bag Commercial and Industrial Packaging Film	0.0%	604	0.0%	4	0.0%	0	0.0%	0	0.0%	608
Film Products Other Film - Other	0.0% 1.5%	61 23,259	0.0% 0.6%	8 1,270	0.0% 0.0%	0 0	0.0% 0.0%	0	0.0% 0.8%	70 24,529
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	557	2.9%	6,342	0.0%	0	4.1%	1,430	0.3%	8,329
Durable Plastic Items - Other	1.1%	15,913	1.8%	3,974	0.0%	ŏ	0.0%	1,400	0.7%	19,887
Remainder/Composite Plastic	4.7%	71,096	1.5%	3,278	0.0%	0	0.0%	16	2.5%	74,390
Other Organic	45.3%	685,882	11.5%	25,423	100.0%	1,161,461	5.3%	1,823	63.9%	1,874,588
Food	24.9%	376,502	1.8%	3,882	0.0%	184	5.3%	1,823	13.0%	382,390
Leaves and Grass	5.7%	86,284	0.0%	0	98.8%	1,147,946	0.0%	0	42.1%	1,234,230
Prunings and Trimmings	2.9%	43,907	0.0%	0	1.1%	13,331	0.0%	0	2.0%	57,237
Branches and Stumps Manures	0.2% 0.0%	3,631 0	8.0% 0.0%	17,723 0	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.7% 0.0%	21,355 0
Textiles	2.3%	35,448	1.2%	2,731	0.0%	0	0.0%	0	1.3%	38,178
Carpet	1.0%	15,305	0.0%	2,101	0.0%	Ő	0.0%	Ő	0.5%	15,305
Remainder/Composite Organic	8.2%	124,806	0.5%	1,087	0.0%	0	0.0%	0	4.3%	125,893
Inerts and Other	11.9%	180,738	0.3%	587	0.0%	0	67.7%	23,419	7.0%	204,745
Concrete	0.1%	1,942	0.0%	0	0.0%	0	0.0%	0	0.1%	1,942
Asphalt Paving	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Asphalt Roofing	0.0%	42	0.0%	50	0.0%	0	0.0%	0	0.0%	92
Clean Dimensional Lumber Clean Engineered Wood	0.6% 0.0%	8,881 0	0.0% 0.0%	0	0.0% 0.0%	0 0	0.0% 0.0%	0	0.3% 0.0%	8,881 0
Clean Pallets & Crates	4.0%	60,814	0.0%	0	0.0%	0	0.0%	0	2.1%	60,814
Other Wood Waste	4.3%	65,386	0.0%	0	0.0%	Ő	0.0%	0	2.2%	65,386
Gypsum Board	1.4%	20,486	0.2%	537	0.0%	0	0.0%	0	0.7%	21,024
Rock, Soil and Fines	1.3%	19,958	0.0%	0	0.0%	0	67.7%	23,419	1.5%	43,378
Remainder/Composite Inerts and Other	0.2%	3,229	0.0%	0	0.0%	0	0.0%	0	0.1%	3,229
Household Hazardous Waste	0.3%	4,997	0.0%	77	0.0%	0	0.1%	34	0.2%	5,108
Paint	0.1%	1,061	0.0%	0	0.0%	0	0.0%	0	0.0%	1,061
Vehicle and Equipment Fluids	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Used Oil Batteries	0.0% 0.0%	0 61	0.0% 0.0%	0 66	0.0% 0.0%	0 0	0.0% 0.1%	0 34	0.0% 0.0%	0 160
Remainder/Composite Household Hazardous	0.0%	3,876	0.0%	11	0.0%	0	0.1%	34 0	0.0%	3,887
Special Waste	0.2%	3,177	0.1%	287	0.0%	ŏ	0.9%	312	0.1%	3,776
Ash	0.1%	1,286	0.0%	0	0.0%	0	0.0%	0	0.0%	1,286
Treated Medical Waste	0.1%	1,712	0.0%	0	0.0%	0	0.0%	0	0.1%	1,712
Bulky Items	0.0%	0	0.0%	0	0.0%	0	0.9%	312	0.0%	312
Tires	0.0%	180	0.0%	0	0.0%	0	0.0%	0	0.0%	180
Remainder/Composite Special Waste	0.0%	0	0.1%	287	0.0%	0	0.0%	0	0.0%	287
Mixed Residue	0.4%	6,457	0.1%	280	0.0%	0	0.0%	0	0.2%	6,738
Totals	100.0%	1,514,667	100.0%	221,419	100.0%	1,161,461	100.0%	34,583	100.0%	2,932,129
Streams Sampled		54		26		6		21		07
TPEPY	0	).74	0	).11	(	).57	0	0.02	1	.44

Percentages for material types may not total 100% due to rounding. Tables detailing the composition for all 82 materials can be found in Appendix E: Detailed Composition Tables

# Findings for Services – Professional, Technical, & Financial

Table 64 presents key findings for the Services – Professional, Technical, & Financial industry group (Group 14). Example business types in this group include banks, real estate agencies, architecture firms, and engineering companies. Statewide, the Group 14 total generation rate is 2.31 TPEPY. With more than 2.1 million employees (the most of any industry group), this group disposed of nearly 4 million tons and diverted nearly 950,000 tons. Group 14 accounted for approximately 19 percent of the overall commercial sector generation, making it the largest generator in the state. This group disposed of nearly 396,000 tons of *remainder/composite paper – compostable*, the most prevalent divertible material type in the Group 14 Disposed stream.

Table 64: Key Findings and Metrics: Services – Professional, Technical, &
Financial

Services - Professional, Technical, & Financial								
Key Findings and Metrics								
Disposed TPEPY	Diverted TPEPY	Disposed Tons	Diverted Tons	Diversion Rate				
1.86	0.44 3,994,643 949,869 19%							
Top Three Div	Top Three Diversion Opportunities in Disposed Stream							
<ul> <li>Remainder/Composite Paper - Compostable (10%, 395,521 tons)</li> <li>Clean Pallets &amp; Crates (8%, 332,687 tons)</li> <li>Food (8%, 330,452 tons)</li> </ul>								

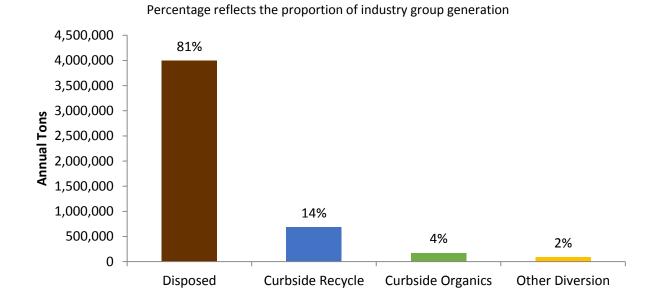
In addition to normalizing generation on a per employee basis (TPEPY), the project team normalized generation by the estimated amount of office space occupied by each generator site. As shown in Table 65, Group 14 businesses generated an estimated 2.37 tons per thousand square feet of office space per year. The number of sites used in this calculation is noted in Table 98 in Appendix C: Description of Calculations.

Table 65: Generation Rate Summary by Weight: Professional, Technical, & Financial
(tons per 1,000 Sq. Ft. per year)

Tons per 1,000 Sq. Ft. per Year	Disposed	Curbside Recycle	Curbside Organics	Other Diversion	Generation
Services - Professional, Technical, & Financial	2.01	0.29	0.01	0.05	2.37

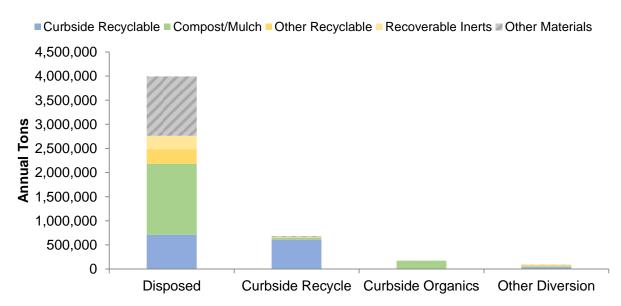
Figure 50 presents the annual tons for each stream in Group 14. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins, and materials diverted through other means, such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination— materials not typically acceptable in those streams, such as food in recycling bins or glass in organics bins. As shown, approximately 81 percent of total generation in Group 14 went to the Disposed stream.

# Figure 50. Annual Tons by Waste Stream: Services – Professional, Technical, & Financial



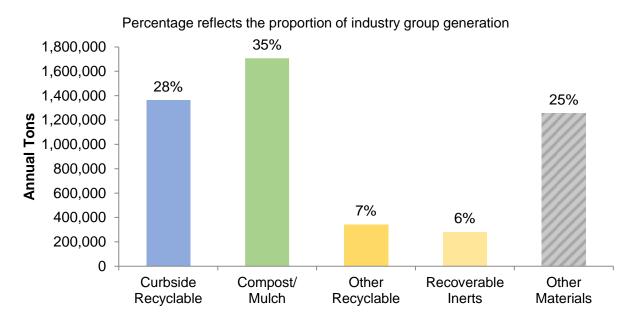
Each material stream was composed of many different material types, and each of those material types was assigned to one of the five recoverability groups. Table 95 in Appendix B: Material Definitions details the assignment of material types to recoverability groups. Figure 51 breaks down the potential recoverability (by recoverability group) for each stream in Group 14. As shown, more than one-third of the Disposed stream was **Compost/Mulch** materials.

The Group 14 Curbside Recycle contamination rate was 11 percent, and the Curbside Organics contamination rate was 1 percent.



# Figure 51. Recoverability by Stream: Services – Professional, Technical, & Financial

Figure 52 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 52 illustrates, approximately 35 percent of total generation in Group 14 was material in the **Compost/Mulch** recoverability group, and approximately 28 percent was **Curbside Recyclable**. When combined, divertible materials accounted for roughly 75 percent of the Group 14 generation. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.



# Figure 52. Recoverability of Materials Generated in the Services – Professional, Technical, & Financial Sector

Table 66 presents detailed composition results for each stream in Group 14, as well as for the total group generation.

## Table 66. Composition Summary: Services – Professional, Technical, & Financial

Material	Disp Est. %	bosed Est. Tons	Curbsid Est. %	e Recycle Est. Tons	Curbside Est. %	e Organics Est. Tons	Other I Est. %	Diversion Est. Tons	Total G Est. %	eneration Est. Tons
Paper	29.1%	1,162,870	86.1%	588,519	0.7%	1,301	40.9%	37,407	36.2%	1,790,097
Uncoated Corrugated Cardboard	4.1%	161,826	51.0%	348,608	0.0%	57	17.7%	16,167	10.7%	526,659
Paper Bags	0.5%	18,127	0.5%	3,124	0.0%	30	0.1%	90	0.4%	21,370
Newspaper White Ledger Paper	2.5% 2.1%	98,110	3.2% 7.9%	22,136	0.1% 0.0%	107 42	0.4% 4.4%	382 3,983	2.4% 2.8%	120,735
Other Office Paper	2.1%	82,352 95,669	3.7%	54,347 25,540	0.0%	42	4.4%	7,353	2.6%	140,724 128,974
Magazines and Catalogs	1.0%	37,985	4.9%	33,581	0.0%	0	0.7%	625	1.5%	72,191
Phone Books and Directories	0.0%	1,100	0.0%	0	0.0%	0	0.0%	0	0.0%	1,100
Other Miscellaneous Paper - Compostable	0.6%	23,243	4.0%	27,383	0.4%	635	0.0%	1	1.0%	51,262
Other Miscellaneous Paper - Other	3.0%	121,279	10.2%	69,785	0.0%	11	9.6%	8,734	4.0%	199,810
Remainder/Composite Paper - Compostable	9.9%	395,521	0.2%	1,269	0.0%	6	0.0%	0	8.0%	396,796
Remainder/Composite Paper - Other Glass	3.2% 1.4%	127,658 <b>55,539</b>	0.4% <b>3.5%</b>	2,747 <b>23,814</b>	0.0% <b>0.0%</b>	0 32	0.1% <b>1.1%</b>	72 1,022	2.6% <b>1.6%</b>	130,478 <b>80,408</b>
Clear Glass Bottles and Containers	0.5%	20,340	2.5%	16,890	0.0%	32	0.4%	403	0.8%	37,665
Green Glass Bottles and Containers	0.4%	17,581	0.5%	3,233	0.0%	0	0.3%	238	0.4%	21,052
Brown Glass Bottles and Containers	0.1%	3,228	0.5%	3,691	0.0%	0	0.4%	373	0.1%	7,293
Other Glass Colored Bottles and Containers	0.0%	203	0.0%	0	0.0%	0	0.0%	0	0.0%	203
Flat Glass	0.0%	943	0.0%	0	0.0%	0	0.0%	0	0.0%	943
Remainder/Composite Glass Metal	0.3% 4.1%	13,244	0.0% <b>0.7%</b>	0 4,567	0.0% <b>0.0%</b>	0 23	0.0% <b>28.0%</b>	7	0.3% <b>3.9%</b>	13,251 <b>192,279</b>
Tin/Steel Cans	<b>4.1%</b> 0.2%	<b>162,103</b> 8,843	0.7%	<b>4,567</b> 1,061	0.0%	<b>23</b> 0	28.0% 0.0%	<b>25,586</b> 18	<b>3.9%</b> 0.2%	9,922
Major Appliances	0.0%	0,045	0.2%	1,001	0.0%	0	0.0%	0	0.0%	0
Used Oil Filters	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Other Ferrous	1.2%	46,400	0.1%	765	0.0%	0	20.0%	18,258	1.3%	65,423
Aluminum Cans	0.1%	3,860	0.3%	1,911	0.0%	23	0.5%	459	0.1%	6,253
Other Non-Ferrous	0.9%	37,317	0.1%	511	0.0%	0	1.8%	1,657	0.8%	39,485
Remainder/Composite Metal	1.6% <b>2.0%</b>	65,683	0.0%	320 379	0.0% <b>0.0%</b>	0	5.7%	5,193	1.4%	71,196
Electronics Brown Goods	0.6%	<b>78,459</b> 23,189	<b>0.1%</b> 0.0%	3/9	0.0%	<b>13</b> 0	<b>1.4%</b> 0.0%	<b>1,245</b> 0	<b>1.6%</b> 0.5%	<b>80,097</b> 23,189
Computer-related Electronics	0.0%	23,105	0.0%	254	0.0%	0	1.3%	1,199	0.0%	1,453
Other Small Consumer Electronics	0.0%	60	0.0%	125	0.0%	13	0.0%	6	0.0%	204
Video Display Devices	1.4%	55,210	0.0%	0	0.0%	0	0.0%	40	1.1%	55,250
Plastic	13.2%	528,834	8.0%	54,425	0.2%	397	1.8%	1,649	11.8%	585,305
PETE Plastic Containers	0.4%	14,736	1.0%	6,783	0.1%	147	1.3%	1,225	0.5%	22,890
HDPE Plastic Containers Miscellaneous Plastic Containers	0.4% 0.2%	15,241 8,521	0.3% 2.7%	2,043 18,616	0.0% 0.0%	2 84	0.5% 0.0%	412 11	0.4% 0.6%	17,698 27,232
Plastic Trash Bags	1.9%	75,623	0.1%	639	0.0%	64 50	0.0%	0	1.5%	76,313
Plastic Grocery and Other Merchandise Bags	0.2%	7,788	0.0%	313	0.0%	0	0.0%	Ő	0.2%	8,102
Non-Bag Commercial and Industrial Packaging Film	0.8%	33,130	1.6%	10,680	0.0%	0	0.0%	0	0.9%	43,809
Film Products	0.0%	0	0.0%	150	0.0%	0	0.0%	0	0.0%	151
Other Film - Other	2.2%	86,837	0.2%	1,358	0.0%	54	0.0%	0	1.8%	88,249
Durable Plastic Items - #2 and #5 Bulky Rigids	0.4%	15,730	0.0%	149	0.0%	0	0.0%	0	0.3%	15,879
Durable Plastic Items - Other Remainder/Composite Plastic	1.1% 5.7%	45,243 225,985	0.0% 2.0%	110 13,584	0.0% 0.0%	57 2	0.0% 0.0%	0	0.9% 4.8%	45,410 239,572
Other Organic	23.1%	922,505	0.1%	996	99.0%	173,063	8.2%	7,527	<b>22.3%</b>	1,104,092
Food	8.3%	330,452	0.1%	483	0.1%	203	5.1%	4,674	6.8%	335,811
Leaves and Grass	3.4%	136,387	0.0%	0	98.8%	172,743	3.1%	2,853	6.3%	311,983
Prunings and Trimmings	3.2%	127,780	0.0%	0	0.0%	0	0.0%	0	2.6%	127,780
Branches and Stumps	0.2%	9,686	0.0%	0	0.0%	0	0.0%	0	0.2%	9,686
Manures Textiles	0.0% 2.1%	1,478 84,487	0.0% 0.1%	0 514	0.0% 0.1%	0 117	0.0% 0.0%	0 0	0.0% 1.7%	1,478 85,118
Carpet	0.6%	23,797	0.1%	0	0.1%	0	0.0%	0	0.5%	23,797
Remainder/Composite Organic	5.2%	208,438	0.0%	Ő	0.0%	Ő	0.0%	Ő	4.2%	208,438
Inerts and Other	25.1%	1,000,711	1.6%	10,908	0.0%	0	16.4%	14,990	20.8%	1,026,609
Concrete	2.0%	79,783	0.0%	0	0.0%	0	0.0%	0	1.6%	79,783
Asphalt Paving	1.0%	40,743	0.0%	0	0.0%	0	0.0%	0	0.8%	40,743
Asphalt Roofing Clean Dimensional Lumber	1.1%	43,328	0.0%	0	0.0% 0.0%	0	0.0%	0	0.9%	43,328
Clean Dimensional Lumber Clean Engineered Wood	1.0% 1.9%	40,020 74,531	0.0% 0.0%	0	0.0%	0	0.4% 0.0%	329 0	0.8% 1.5%	40,349 74,531
Clean Pallets & Crates	8.3%	332,687	1.6%	10,908	0.0%	0	14.3%	13,110	7.2%	356,706
Other Wood Waste	3.1%	124,307	0.0%	0	0.0%	0	0.0%	0	2.5%	124,307
Gypsum Board	0.6%	25,730	0.0%	0	0.0%	0	0.7%	642	0.5%	26,372
Rock, Soil and Fines	2.2%	89,652	0.0%	0	0.0%	0	1.0%	908	1.8%	90,560
Remainder/Composite Inerts and Other	3.8%	149,929	0.0%	0	0.0%	0	0.0%	0	3.0%	149,929
Household Hazardous Waste Paint	0.2% 0.0%	<b>7,437</b> 0	<b>0.0%</b> 0.0%	<b>16</b> 0	<b>0.0%</b> 0.0%	<b>14</b> 0	<b>1.8%</b> 0.0%	<b>1,605</b> 0	0.2% 0.0%	<b>9,071</b> 0
Vehicle and Equipment Fluids	0.0%	174	0.0%	0	0.0%	0	0.0%	0	0.0%	174
Used Oil	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Batteries	0.0%	866	0.0%	Ő	0.0%	14	1.7%	1,570	0.0%	2,450
Remainder/Composite Household Hazardous	0.2%	6,397	0.0%	16	0.0%	0	0.0%	35	0.1%	6,447
Special Waste	1.8%	71,286	0.0%	0	0.0%	0	0.4%	371	1.4%	71,656
Ash	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Treated Medical Waste	0.0%	174	0.0%	0 0	0.0%	0	0.0%	0	0.0%	174
Bulky Items Tires	1.8% 0.0%	70,937 0	0.0% 0.0%	0	0.0% 0.0%	0	0.4% 0.0%	371 0	1.4% 0.0%	71,308
Remainder/Composite Special Waste	0.0%	174	0.0%	0	0.0%	0	0.0%	0	0.0%	174
Mixed Residue	0.1%	4,898	0.0%	0	0.0%	0	0.0%	0	0.0%	4,898
Totals	100.0%	3,994,643	100.0%	683,626	100.0%	174,842	100.0%	91,402	100.0%	4,944,512
Streams Sampled		53	:	36		3		63	1	155
TPEPY Percentages for material types may not total 100% due to rounding		.86	0	.32	0	.08	0	.04	2	2.31

Percentages for material types may not total 100% due to rounding.

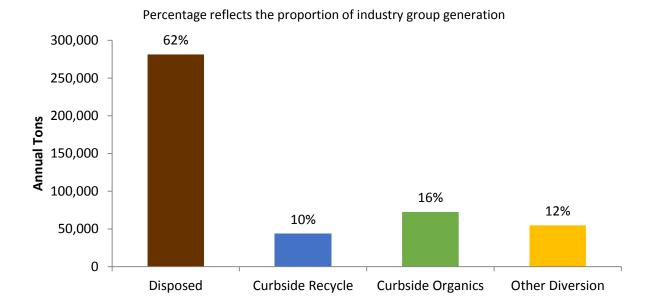
Tables detailing the composition for all 82 materials can be found in Appendix E: Detailed Composition Tables

# Findings for Services – Repair & Personal

Table 67 presents key findings for the Services – Repair & Personal industry group (Group 15). Statewide, Group 15 disposed of more than 281,000 tons and diverted nearly 171,000 tons. Generation was approximately 1.50 TPEPY. *Remainder/composite paper – compostable* was the most prevalent divertible material type in the Group 15 Disposed stream, accounting for 9 percent of disposal. Combined, *other ferrous* and *other non-ferrous* accounted for nearly three-quarters of the Group 15 Other Diversion stream.

Services - Repair & Personal									
Key Findings and Metrics									
Disposed	Diverted	Disposed	Diverted	Diversion					
TPEPY	TPEPY	Tons	Tons	Rate					
0.94	0.94 0.57 281,371 170,866 38%								
Top Three Diversion Opportunities in Disposed Stream									
<ul> <li>Remainder/Composite Paper - Compostable (9%, 24,506 tons)</li> </ul>									
<ul> <li>Food (7%, 20,927 tons)</li> </ul>									
<ul> <li>Uncoate</li> </ul>	d Corrugated Ca	ardboard (5%, 15	5,017 tons)						

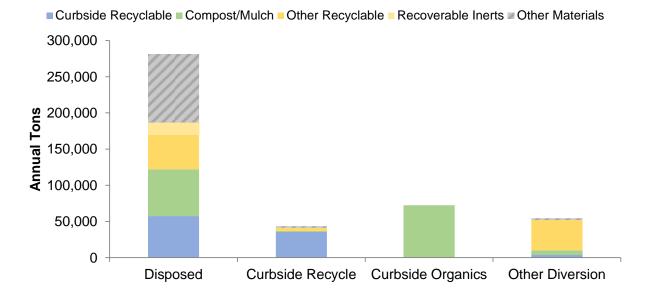
As shown in Figure 53, the three diversion streams accounted for approximately 38 percent of total generation in Group 15, with the remaining 62 percent in the Disposed stream. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins, and materials diverted through other means such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination—materials not typically acceptable in those streams such as food in recycling bins or glass in organics bins.



#### Figure 53. Annual Tons by Waste Stream: Services – Repair & Personal

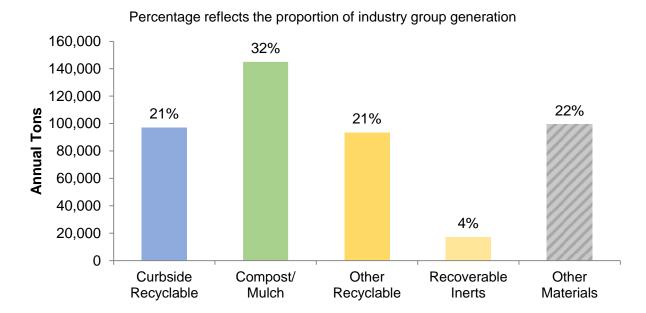
Each material stream was composed of many different material types, and each of those material types was assigned to one of the five recoverability groups. Table 95 in Appendix B: Material Definitions details the assignment of material types to recoverability groups. Figure 54 breaks down the potential recoverability (by recoverability group) for each stream in Group 15. As shown, almost two-thirds of the Disposed stream was divertible, nearly evenly split between **Curbside Recyclable**, **Compost/Mulch**, and **Other Recyclable** materials.

The Group 15 Curbside Recycle contamination rate was 18 percent. No contamination was observed in the Curbside Organics stream.



#### Figure 54. Recoverability by Stream: Services – Repair & Personal

Figure 55 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 55 illustrates, approximately 32 percent of total generation in Group 15 was material in the **Compost/Mulch** recoverability group. The **Curbside Recyclable**, **Other Recyclable**, and **Other Materials** groups each accounted for slightly more than 20 percent of total generation. When combined, divertible materials accounted for roughly 78 percent of the Group 15 generation. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.



# Figure 55. Recoverability of Materials Generated in the Services – Repair & Personal Sector

Table 68 presents detailed composition results for each stream in Group 15, as well as for the total group generation.

## Table 68. Composition Summary: Services – Repair & Personal

Material	Disp Est. %	osed Est. Tons	Curbside Est. %	e Recycle Est. Tons	Curbside Est. %	e Organics Est. Tons	Other E Est. %	Diversion Est. Tons	Total G Est. %	eneration Est. Tons
Paper	30.2%	84,886	77.2%	33,684	5.0%	3,626	6.1%	3,334	27.8%	125,530
Uncoated Corrugated Cardboard	5.3%	15,017	65.1%	28,403	0.0%	0	6.1%	3,319	10.3%	46,738
Paper Bags	0.3%	889	0.8%	330	0.0%	0	0.0%	0	0.3%	1,219
Newspaper	2.6% 1.3%	7,218 3,776	1.4% 2.2%	621 961	0.0% 0.0%	0 0	0.0% 0.0%	0 0	1.7% 1.0%	7,839 4,736
White Ledger Paper Other Office Paper	1.5%	4,294	0.2%	74	0.0%	0	0.0%	1	1.0%	4,736
Magazines and Catalogs	0.6%	1,601	0.2%	278	0.0%	0	0.0%	0	0.4%	1,879
Phone Books and Directories	0.0%	31	0.0%	0	0.0%	Ő	0.0%	Ő	0.0%	31
Other Miscellaneous Paper - Compostable	0.2%	460	2.3%	1,009	5.0%	3,626	0.0%	0	1.1%	5,096
Other Miscellaneous Paper - Other	3.9%	11,048	2.2%	955	0.0%	0	0.0%	0	2.7%	12,003
Remainder/Composite Paper - Compostable	8.7%	24,506	0.6%	278	0.0%	0	0.0%	0	5.5%	24,784
Remainder/Composite Paper - Other	5.7%	16,046	1.8%	776	0.0%	0	0.0%	13	3.7%	16,836
Glass	2.7%	7,588	5.7%	2,471	0.0%	0	0.1%	68	2.2%	10,126
Clear Glass Bottles and Containers	0.6%	1,755	1.2%	534	0.0%	0	0.1%	68	0.5%	2,357
Green Glass Bottles and Containers	0.6%	1,563	3.4%	1,469	0.0%	0 0	0.0%	0 0	0.7%	3,032
Brown Glass Bottles and Containers Other Glass Colored Bottles and Containers	0.1% 0.0%	262 0	1.1% 0.0%	467 0	0.0% 0.0%	0	0.0% 0.0%	0	0.2% 0.0%	729 0
Flat Glass	0.0%	2,099	0.0%	0	0.0%	0	0.0%	0	0.5%	2,099
Remainder/Composite Glass	0.7%	1,910	0.0%	0	0.0%	0	0.0%	0	0.3%	1,910
Metal	8.5%	24,054	3.9%	1,708	0.0%	ŏ	78.6%	43,009	15.2%	68,771
Tin/Steel Cans	0.6%	1,788	0.0%	0	0.0%	õ	0.0%	0	0.4%	1,788
Major Appliances	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Used Oil Filters	0.2%	495	0.0%	0	0.0%	0	0.0%	0	0.1%	495
Other Ferrous	3.3%	9,160	3.8%	1,645	0.0%	0	43.6%	23,840	7.7%	34,644
Aluminum Cans	0.1%	413	0.1%	49	0.0%	0	0.1%	51	0.1%	513
Other Non-Ferrous	2.5%	6,897	0.0%	0	0.0%	0	31.1%	17,017	5.3%	23,914
Remainder/Composite Metal	1.9%	5,301	0.0%	14	0.0%	0	3.8%	2,102	1.6%	7,417
Electronics	0.7%	1,916	0.0%	0	0.0%	0	0.2%	97	0.4%	2,013
Brown Goods	0.0%	139	0.0%	0	0.0%	0	0.0%	0	0.0%	139
Computer-related Electronics	0.0%	117	0.0%	0	0.0%	0	0.1%	57	0.0%	174
Other Small Consumer Electronics	0.0%	64 1 505	0.0% 0.0%	0	0.0% 0.0%	0	0.0% 0.1%	0 40	0.0% 0.4%	64
Video Display Devices Plastic	0.6% 15.3%	1,595 <b>43,111</b>	0.0% 10.6%	4,605	0.0% 0.0%	0	1.8%	40 1,005	0.4% 10.8%	1,635 <b>48,720</b>
PETE Plastic Containers	0.7%	1,890	0.1%	4,005	0.0%	0	0.8%	423	0.5%	2,351
HDPE Plastic Containers	1.9%	5,427	2.9%	1,279	0.0%	0	0.0%	12	1.5%	6,718
Miscellaneous Plastic Containers	0.2%	681	0.3%	115	0.0%	Ő	0.0%	0	0.2%	796
Plastic Trash Bags	1.1%	3,031	0.1%	45	0.0%	0	0.0%	0	0.7%	3,077
Plastic Grocery and Other Merchandise Bags	0.3%	758	0.4%	155	0.0%	0	0.0%	0	0.2%	914
Non-Bag Commercial and Industrial Packaging Film	1.2%	3,343	0.3%	144	0.0%	0	0.0%	0	0.8%	3,487
Film Products	0.0%	0	0.1%	41	0.0%	0	0.0%	0	0.0%	41
Other Film - Other	2.0%	5,572	0.0%	20	0.0%	0	0.0%	0	1.2%	5,593
Durable Plastic Items - #2 and #5 Bulky Rigids	0.7%	1,921	4.8%	2,078	0.0%	0	0.0%	0	0.9%	3,999
Durable Plastic Items - Other	2.7%	7,617	0.8%	335	0.0%	0	0.0%	0	1.8%	7,952
Remainder/Composite Plastic	4.6%	12,870	0.8%	353	0.0%	0	1.0%	569	3.0%	13,792
Other Organic	21.5%	60,389	0.9%	414	95.0%	68,901	1.4%	792	28.9%	130,497
Food	7.4% 3.4%	20,927	0.2% 0.0%	91 0	95.0% 0.0%	68,901 0	0.0% 0.0%	0 0	19.9% 2.1%	89,919
Leaves and Grass Prunings and Trimmings	0.6%	9,554 1,705	0.0%	0	0.0%	0	0.0%	0	0.4%	9,554 1,705
Branches and Stumps	0.0%	1,703	0.0%	0	0.0%	0	0.0%	0	0.4%	1,705
Manures	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Textiles	4.0%	11,271	0.2%	83	0.0%	0 0	1.4%	790	2.7%	12,145
Carpet	0.8%	2,272	0.0%	0	0.0%	0	0.0%	0	0.5%	2,272
Remainder/Composite Organic	5.2%	14,659	0.6%	240	0.0%	0	0.0%	2	3.3%	14,901
Inerts and Other	16.0%	45,147	1.3%	563	0.0%	Ō	11.7%	6,400	11.5%	52,111
Concrete	0.2%	511	0.0%	0	0.0%	0	0.0%	0	0.1%	511
Asphalt Paving	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Asphalt Roofing	2.3%	6,552	0.0%	0	0.0%	0	0.0%	0	1.4%	6,552
Clean Dimensional Lumber	0.5%	1,481	0.4%	173	0.0%	0	0.0%	0	0.4%	1,654
Clean Engineered Wood	0.7%	2,028	0.0%	0	0.0%	0	0.0%	0	0.4%	2,028
Clean Pallets & Crates	1.4%	3,947	0.0%	0	0.0%	0	11.7%	6,382	2.3%	10,328
Other Wood Waste	4.9%	13,928	0.0%	0	0.0%	0	0.0%	19	3.1%	13,947
Gypsum Board Book, Soil and Finos	1.5%	4,319	0.0%	0	0.0%	0	0.0%	0	1.0%	4,319
Rock, Soil and Fines Remainder/Composite Inerts and Other	2.0% 2.4%	5,719 6,663	0.0% 0.9%	0 390	0.0% 0.0%	0	0.0% 0.0%	0 0	1.3% 1.6%	5,719 7.053
Household Hazardous Waste	2.4% 2.5%	6,663 <b>7,008</b>	0.9% <b>0.4%</b>	390 <b>188</b>	0.0% 0.0%	0	0.0% 0.0%	0	1.6% 1.6%	7,053 <b>7,196</b>
Paint	<b>2.3%</b> 1.4%	3,899	0.4%	100	0.0%	0	0.0%	0	0.9%	3,899
Vehicle and Equipment Fluids	1.4%	3,064	0.0%	0	0.0%	0	0.0%	0	0.9%	3,099
Used Oil	0.0%	3,004	0.0%	0	0.0%	0	0.0%	0	0.0%	18
Batteries	0.0%	13	0.4%	188	0.0%	0 0	0.0%	Ő	0.0%	201
Remainder/Composite Household Hazardous	0.0%	14	0.0%	0	0.0%	0	0.0%	Ő	0.0%	14
Special Waste	2.2%	6,061	0.0%	ŏ	0.0%	Ő	0.0%	ŏ	1.3%	6,061
Ash	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Treated Medical Waste	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Bulky Items	1.2%	3,455	0.0%	0	0.0%	0	0.0%	0	0.8%	3,455
Tires	0.9%	2,605	0.0%	0	0.0%	0	0.0%	0	0.6%	2,605
Remainder/Composite Special Waste	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Mixed Residue	0.4%	1,212	0.0%	0	0.0%	0	0.0%	0	0.3%	1,212
Totals Streams Sampled	100.0%	<b>281,371</b>	100.0%	<b>43,633</b> 3	100.0%	<b>72,528</b>	100.0%	<b>54,706</b> 36	100.0%	452,237 02

Tables detailing the composition for all 82 materials can be found in Appendix E: Detailed Composition Tables

# Findings for Not Elsewhere Classified

Table 69 presents key findings for the Not Elsewhere Classified industry group (Group 16). This group consists of industries with less employment or atypical waste streams that may be less likelihood to be targeted for diversion programs, such as agriculture, utilities, and transportation. Statewide, Group 16 disposed of nearly 539,000 tons and diverted more than 750,000 tons. Generation was approximately 1.20 TPEPY. *Food* was the most prevalent divertible material type in the Group 16 Disposed stream, accounting for 16 percent of disposal.

Not Elsewhere Classified									
Key Findings and Metrics									
Disposed	Diverted	Disposed	Diverted	Diversion					
TPEPY	TPEPY	Tons	Tons	Rate					
0.50	0 0.70 538,858 750,291 58%								
Top Three Diversion Opportunities in Disposed Stream									
<ul> <li>Food (16%, 86,197 tons)</li> </ul>									
<ul> <li>Remainder/Composite Paper - Compostable (9%, 48,398 tons)</li> </ul>									
Leaves a	<ul> <li>Leaves and Grass (6%, 30,678 tons)</li> </ul>								

Figure 56 presents the annual tons for each stream in Group 16. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins, and materials diverted through other means, such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination— materials not typically acceptable in those streams such as food in recycling bins or glass in organics bins. Other Diversion was the largest stream (53 percent), and the Disposed stream accounted for an additional 42 percent of Group 16 generation.

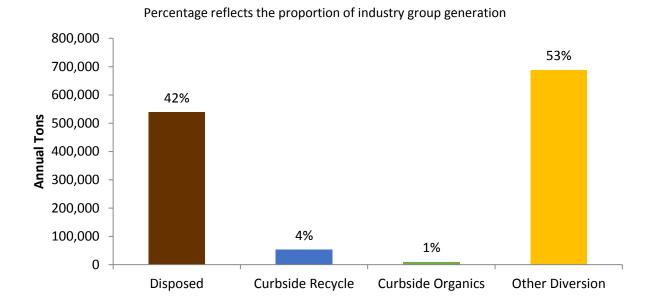
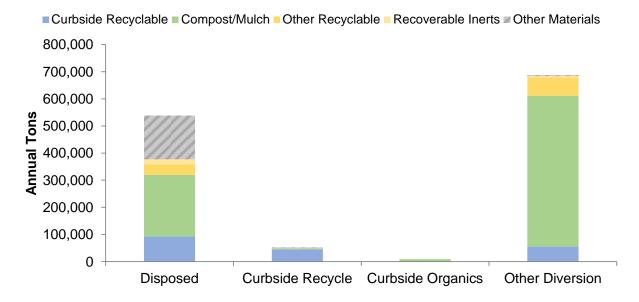


Figure 56. Annual Tons by Waste Stream: Not Elsewhere Classified

Each material stream was composed of many different material types, and each of those material types was assigned to one of the five recoverability groups. Table 95 in Appendix B: Material Definitions details the assignment of material types to recoverability groups. Figure 57 breaks down the potential recoverability (by recoverability group) for each stream in Group 16. As shown, the Other Diversion stream was approximately 81 percent **Compost/Mulch**, and nearly three-quarters of the Disposed stream was divertible.

The Group 16 Curbside Recycle contamination rate was 13 percent. No contamination was observed in the Curbside Organics stream.



#### Figure 57. Recoverability by Stream: Not Elsewhere Classified

Figure 58 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 58 illustrates, approximately 62 percent of total generation in Group 16 was material in the **Compost/Mulch** recoverability group, and approximately 15 percent was **Curbside Recyclable**. When combined, divertible materials accounted for roughly 87 percent of the Group 16 generation. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.

# Figure 58. Recoverability of Materials Generated in the Not Elsewhere Classified Sector

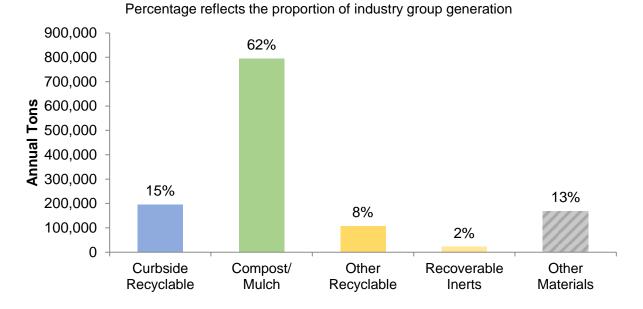


Table 70 presents detailed composition results for each stream in Group 16, as well as for the total group generation.

#### Table 70. Composition Summary: Not Elsewhere Classified

Material		osed Est. Tons	Curbside Est. %	Recycle Est. Tons	Curbside Est. %	Organics Est. Tons	Other D Est. %	iversion Est. Tons	Total Go Est. %	eneration Est. Tons
Paper	27.6%	148,662	74.3%	39,479	2.1%	196	8.2%	56,148	19.0%	244,485
Uncoated Corrugated Cardboard	4.5%	24,092	62.5%	33,188	0.0%	0	8.1%	55,416	8.7%	112,695
Paper Bags	0.3%	1,659	0.4%	212	0.0%	4	0.0%	0	0.1%	1,874
Newspaper White Ledger Paper	1.2% 1.9%	6,355 10,098	0.7% 2.0%	375 1,071	0.0% 0.0%	0 0	0.0% 0.0%	0 0	0.5% 0.9%	6,730 11,170
Other Office Paper	1.8%	9,942	4.4%	2,345	0.0%	2	0.0%	3	1.0%	12,292
Magazines and Catalogs	1.9%	10,499	1.2%	621	0.0%	0	0.0%	0	0.9%	11,120
Phone Books and Directories	0.1%	325	0.1%	79	0.0%	0	0.0%	0	0.0%	404
Other Miscellaneous Paper - Compostable	0.2%	1,164	0.7%	383	1.9%	180	0.0%	0	0.1%	1,726
Other Miscellaneous Paper - Other	3.3%	17,840	1.3%	693	0.1%	11	0.1%	729	1.5%	19,273
Remainder/Composite Paper - Compostable	9.0%	48,398	0.2%	99	0.0%	0	0.0%	0	3.8%	48,498
Remainder/Composite Paper - Other	3.4%	18,292	0.8%	413	0.0%	0	0.0%	0	1.5%	18,705
Glass Clear Glass Bottles and Containers	4.8%	26,005 2,695	10.9%	<b>5,771</b> 1,795	<b>0.0%</b> 0.0%	<b>0</b> 0	<b>0.0%</b> 0.0%	<b>0</b> 0	2.5% 0.3%	<b>31,776</b> 4,490
Green Glass Bottles and Containers	0.5% 0.1%	2,695	3.4% 3.9%	2,087	0.0%	0	0.0%	0	0.3%	2,538
Brown Glass Bottles and Containers	0.3%	1,816	3.6%	1,889	0.0%	0	0.0%	0	0.2%	3,705
Other Glass Colored Bottles and Containers	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Flat Glass	2.2%	11,778	0.0%	0	0.0%	0	0.0%	0	0.9%	11,778
Remainder/Composite Glass	1.7%	9,265	0.0%	0	0.0%	0	0.0%	0	0.7%	9,265
Metal	2.9%	15,689	1.1%	563	0.0%	0	9.7%	66,765	6.4%	83,016
Tin/Steel Cans	0.2%	917	0.4%	237	0.0%	0	0.0%	0	0.1%	1,154
Major Appliances	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Used Oil Filters	0.0%	57	0.0%	0	0.0%	0	0.0%	0	0.0%	57
Other Ferrous Aluminum Cans	1.2% 0.2%	6,287 967	0.1% 0.5%	51 258	0.0% 0.0%	0 0	8.1% 0.0%	56,028 296	4.8% 0.1%	62,366 1,521
Other Non-Ferrous	0.2%	3,201	0.5%	258 16	0.0%	0	0.0%	296 10,406	1.1%	13,623
Remainder/Composite Metal	0.8%	4,260	0.0%	0	0.0%	0	0.0%	34	0.3%	4,295
Electronics	0.2%	1,241	0.0%	Ō	0.0%	Ō	0.2%	1,277	0.2%	2,518
Brown Goods	0.0%	0	0.0%	0	0.0%	0	0.0%	5	0.0%	_,5
Computer-related Electronics	0.0%	0	0.0%	0	0.0%	0	0.0%	246	0.0%	246
Other Small Consumer Electronics	0.0%	0	0.0%	0	0.0%	0	0.0%	111	0.0%	111
Video Display Devices	0.2%	1,241	0.0%	0	0.0%	0	0.1%	916	0.2%	2,157
Plastic	12.4%	67,071	7.1%	3,756	0.0%	0	0.0%	323	5.5%	71,150
PETE Plastic Containers HDPE Plastic Containers	0.4%	2,326	1.1% 0.6%	574	0.0% 0.0%	0 0	0.0% 0.0%	314	0.2% 0.2%	3,214 2,055
Miscellaneous Plastic Containers	0.3% 0.2%	1,725 1,021	0.6%	320 292	0.0%	0	0.0%	10 0	0.2%	2,055
Plastic Trash Bags	2.0%	10,756	0.5%	276	0.0%	0	0.0%	0	0.1%	11,032
Plastic Grocery and Other Merchandise Bags	0.2%	1,291	0.1%	28	0.0%	0 0	0.0%	Ő	0.1%	1,319
Non-Bag Commercial and Industrial Packaging Film	1.8%	9,482	0.0%	3	0.0%	0	0.0%	0	0.7%	9,485
Film Products	0.0%	0	1.8%	942	0.0%	0	0.0%	0	0.1%	942
Other Film - Other	1.7%	9,331	1.5%	822	0.0%	0	0.0%	0	0.8%	10,153
Durable Plastic Items - #2 and #5 Bulky Rigids	0.1%	630	0.2%	84	0.0%	0	0.0%	0	0.1%	714
Durable Plastic Items - Other	1.8%	9,740	0.0%	1	0.0%	0	0.0%	0	0.8%	9,740
Remainder/Composite Plastic	3.9%	20,768	0.8%	415	0.0%	0	0.0%	0	1.6%	21,183
Other Organic	38.3%	206,450	<b>5.9%</b> 5.2%	3,136	<b>97.9%</b> 1.2%	<b>9,234</b> 109	<b>75.7%</b> 31.1%	520,967	<b>57.4%</b> 23.5%	739,787
Food Leaves and Grass	16.0% 5.7%	86,197 30,678	0.0%	2,758 0	48.4%	4,563	15.9%	214,139 109,124	11.2%	303,202 144,365
Prunings and Trimmings	5.0%	26,986	0.0%	0	48.4%	4,563	28.7%	197,704	17.8%	229,252
Branches and Stumps	0.0%	20,000	0.0%	0 0	0.0%	4,000	0.0%	0	0.0%	220,202
Manures	0.4%	2,117	0.0%	0	0.0%	0	0.0%	0	0.2%	2,117
Textiles	2.8%	15,017	0.2%	80	0.0%	0	0.0%	0	1.2%	15,097
Carpet	0.3%	1,415	0.0%	0	0.0%	0	0.0%	0	0.1%	1,415
Remainder/Composite Organic	8.2%	44,040	0.6%	299	0.0%	0	0.0%	0	3.4%	44,340
Inerts and Other	11.5%	62,169	0.0%	0	0.0%	0	6.1%	42,166	8.1%	104,335
Concrete	1.1%	5,942	0.0%	0	0.0%	0	0.0%	0	0.5%	5,942
Asphalt Paving	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Asphalt Roofing Clean Dimensional Lumber	0.0% 0.7%	147 3,569	0.0% 0.0%	0	0.0% 0.0%	0 0	0.0% 0.0%	0	0.0% 0.3%	147 3,569
Clean Engineered Wood	0.7%	3,569 6,070	0.0%	0	0.0%	0	4.2%	28,927	2.7%	3,569
Clean Pallets & Crates	4.2%	22,650	0.0%	0	0.0%	0	0.8%	5,235	2.2%	27,885
Other Wood Waste	1.5%	7,936	0.0%	0	0.0%	Ő	0.0%	0,200	0.6%	7,936
Gypsum Board	0.0%	46	0.0%	0	0.0%	0	0.0%	0	0.0%	46
Rock, Soil and Fines	2.2%	12,012	0.0%	0	0.0%	0	0.6%	4,118	1.3%	16,130
Remainder/Composite Inerts and Other	0.7%	3,796	0.0%	0	0.0%	0	0.6%	3,886	0.6%	7,682
Household Hazardous Waste	0.0%	66	0.8%	404	0.0%	0	0.0%	106	0.0%	576
Paint Mahida and Environment Fluida	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Vehicle and Equipment Fluids	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0 420
Used Oil Batteries	0.0% 0.0%	25 37	0.8% 0.0%	404 0	0.0% 0.0%	0 0	0.0% 0.0%	0 106	0.0% 0.0%	430 143
Remainder/Composite Household Hazardous	0.0%		0.0%	0	0.0%	0	0.0%	0	0.0%	43
Special Waste	1.4%	7,339	0.0%	0	0.0%	0	0.0%	0	0.6%	7,339
Ash	0.0%	95	0.0%	0	0.0%	0	0.0%	0	0.0%	95
Treated Medical Waste	0.0%	0	0.0%	Ő	0.0%	õ	0.0%	Ő	0.0%	0
Bulky Items	1.3%	7,157	0.0%	0	0.0%	0	0.0%	0	0.6%	7,157
Tires	0.0%	88	0.0%	0	0.0%	0	0.0%	0	0.0%	88
Remainder/Composite Special Waste	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Mixed Residue	0.8%	4,166	0.0%	0	0.0%	0	0.0%	0	0.3%	4,166
Totals	100.0%	<b>538,858</b>	<b>100.0%</b>	53,109	100.0%	<b>9,430</b> 2	100.0%	687,752	100.0%	1,289,149 28
Streams Sampled										

Tables detailing the composition for all 82 materials can be found in Appendix E: Detailed Composition Tables

# Findings for Multi-Family

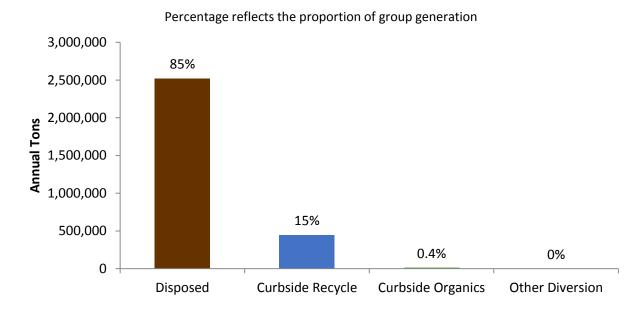
Table 71 presents key findings for the Multi-Family group. Statewide, Multi-Family disposed of more than 2.5 million tons and diverted approximately 460,000 tons. The Multi-Family generation rate was approximately 0.87 tons per unit per year (TPUPY). *Food* was the most prevalent divertible material type in the Multi-Family Disposed stream, accounting for 25 percent of disposal.

Multi-Family estimates did not take into account any diversion (e.g., recycling of computer equipment, furniture, etc.) done by tenants of the multi-family complex independently of the buildings' management and custodial services.

Multifamily							
Key Findings	and Metrics						
Disposed	Diverted	Disposed	Diverted	Diversion			
TPUPY	TPUPY	Tons	Tons	Rate			
0.74	0.13	2,524,183	460,083	15%			
Top Three Div	ersion Opportu	inities in Dispo	sed Stream				
<ul> <li>Food (28)</li> </ul>	5%, 625,274 ton	s)					
<ul> <li>Textiles (7%, 188,044 tons)</li> </ul>							
Remain	der/Composite P	aper - Composta	able (7%, 170,87	'5 tons)			

### Table 71. Key Findings and Metrics: Multi-Family

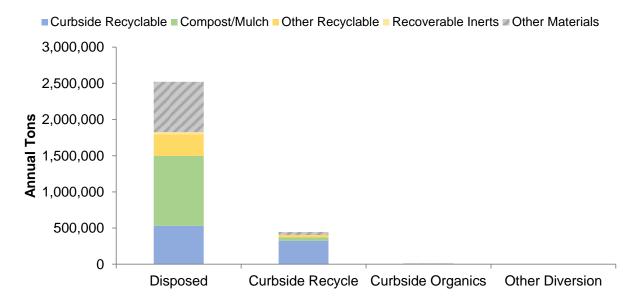
Figure 59 presents the annual tons generated by each stream in Multi-Family. This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, curbside organics bins, and materials diverted through other means such as businesses selling their own cardboard or scrap metal directly to recyclers. The Curbside Recycle and Curbside Organics quantities include the contamination— materials not typically acceptable in those streams such as food in recycling bins or glass in organics bins. As shown, approximately 85 percent of total generation in Multi-Family went to the Disposed stream.



#### Figure 59. Annual Tons by Waste Stream: Multi-Family

Each material stream was composed of many different material types, and each of those material types was assigned to one of the five recoverability groups. Table 95 in Appendix B: Material Definitions details the assignment of material types to recoverability groups. Figure 60 breaks down the potential recoverability (by recoverability group) for each stream in Multi-Family. As shown, nearly three-quarters of the Disposed stream was divertible.

The Multi-Family Curbside Recycle contamination rate was 27 percent, and the Curbside Organics contamination rate was less than 1 percent.



#### Figure 60. Recoverability by Stream: Multi-Family

Figure 61 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream; i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 61 illustrates, approximately 34 percent of total generation in Multi-Family was material in the **Compost/Mulch** recoverability group, and approximately 29 percent was **Curbside Recyclable**. When combined, divertible materials accounted for roughly 75 percent of the Multi-Family generation. Table 95 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups.

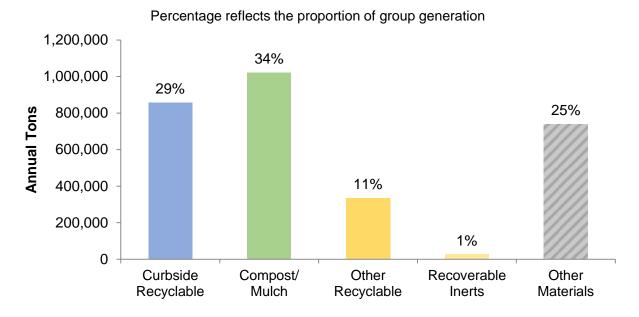


Figure 61. Recoverability of Materials Generated in the Multi-Family Sector

Table 72 presents detailed composition results for each stream in Multi-Family, as well as for the total group generation.

#### Table 72. Composition Summary: Multi-Family

Material	Dis Est. %	p <b>osed</b> Est. Tons	Curbsid Est. %	e Recycle Est. Tons	Curbside Est. %	e Organics Est. Tons	Other Div Est. % Est.	<b>ersion</b> st. Tons	Total G Est. %	eneration Est. Tons
Paper	23.5%	593,459	55.3%	247,356	1.9%	230	-	-	28.2%	841,045
Uncoated Corrugated Cardboard	3.6%	90,061	19.2%	86,143	0.0%	0	-	-	5.9%	176,204
Paper Bags	0.5%	13,314	0.9%	4,174	0.0%	0	-	-	0.6%	17,489
Newspaper	4.6%	117,201	19.2%	85,821	0.0%	0	-	-	6.8%	203,022
White Ledger Paper Other Office Paper	0.5% 0.6%	13,345 14,862	2.0% 2.8%	9,148 12,396	0.0% 0.0%	0	-	-	0.8% 0.9%	22,493 27,258
Magazines and Catalogs	0.8%	18,876	2.8%	9,284	0.0%	0	-	-	0.9%	28,160
Phone Books and Directories	0.0%	773	0.4%	1,636	0.0%	0	_	-	0.3%	2,409
Other Miscellaneous Paper - Compostable	0.3%	7,471	1.5%	6,552	1.9%	230	-	-	0.5%	14,253
Other Miscellaneous Paper - Other	4.7%	119,119	4.3%	19,457	0.0%	0	-	-	4.6%	138,575
Remainder/Composite Paper - Compostable	6.8%	170,875	0.4%	1,902	0.0%	0	-	-	5.8%	172,777
Remainder/Composite Paper - Other	1.1%	27,563	2.4%	10,845	0.0%	0	-	-	1.3%	38,407
Glass	3.0%	75,495	11.3%	50,539	0.0%	0	-	-	4.2%	126,033
Clear Glass Bottles and Containers	1.6%	41,446	4.5%	20,134	0.0%	0	-	-	2.1%	61,580
Green Glass Bottles and Containers	0.1%	3,756	4.2%	18,663	0.0%	0	-	-	0.8%	22,419
Brown Glass Bottles and Containers	0.7%	17,218	2.6%	11,697	0.0%	0	-	-	1.0%	28,915
Other Glass Colored Bottles and Containers	0.1%	1,563	0.0%	44	0.0%	0	-	-	0.1%	1,607
Flat Glass Remainder/Composite Glass	0.1% 0.4%	1,464 10,049	0.0% 0.0%	0	0.0% 0.0%	0	-	-	0.0% 0.3%	1,464 10,049
Metal	3.5%	89,255	3.6%	16,197	0.0%	0		-	3.5%	10,049 105,452
Tin/Steel Cans	0.9%	23,463	1.5%	6,769	0.0%	0	_	-	1.0%	30,232
Major Appliances	0.0%	28	0.0%	0,700	0.0%	Ő	-	-	0.0%	28
Used Oil Filters	0.0%	20	0.0%	Ő	0.0%	Ő	-	-	0.0%	20
Other Ferrous	0.8%	19,097	1.4%	6,065	0.0%	0	-	-	0.8%	25,162
Aluminum Cans	0.2%	5,749	0.5%	2,315	0.0%	0	-	-	0.3%	8,064
Other Non-Ferrous	0.8%	19,404	0.1%	543	0.0%	0	-	-	0.7%	19,947
Remainder/Composite Metal	0.9%	21,516	0.1%	505	0.0%	0	-	-	0.7%	22,021
Electronics	1.6%	39,631	1.2%	5,246	0.0%	0	-	-	1.5%	44,878
Brown Goods	0.5%	11,446	0.0%	0	0.0%	0	-	-	0.4%	11,446
Computer-related Electronics	0.2%	5,091	0.1%	445	0.0%	0	-	-	0.2%	5,537
Other Small Consumer Electronics	0.3%	6,605	0.3%	1,468	0.0%	0	-	-	0.3%	8,073
Video Display Devices	0.7%	16,489	0.7%	3,333	0.0%	0	-	-	0.7%	19,822
Plastic	11.0%	278,032	14.9%	66,791	0.5%	66	-	-	11.6%	344,888
PETE Plastic Containers	0.9%	23,363	5.1%	23,046	0.3%	33	-	-	1.6%	46,442
HDPE Plastic Containers	0.5%	11,770	2.0%	9,079	0.0%	0	-	-	0.7%	20,849
Miscellaneous Plastic Containers	0.6%	16,113	1.7%	7,402	0.0%	0	-	-	0.8%	23,515
Plastic Trash Bags	1.1% 0.9%	28,449 22,166	0.4% 0.5%	1,887	0.0% 0.0%	0 0	-	-	1.0% 0.8%	30,336
Plastic Grocery and Other Merchandise Bags Non-Bag Commercial and Industrial Packaging Film	0.9%	4,259	0.5%	2,156 19	0.0%	0	-	-	0.8%	24,322 4,278
Film Products	0.2%	4,259	0.0%	285	0.0%	0	-	-	0.1%	4,278
Other Film - Other	2.1%	54,247	1.4%	6,253	0.0%	0	_	-	2.0%	60,501
Durable Plastic Items - #2 and #5 Bulky Rigids	0.2%	4,237	1.8%	8,163	0.0%	õ	-	-	0.4%	12,400
Durable Plastic Items - Other	1.1%	28,424	0.4%	1,906	0.0%	Ő	-	-	1.0%	30,330
Remainder/Composite Plastic	3.4%	84,962	1.5%	6,595	0.3%	33	-	-	3.1%	91,591
Other Organic	44.1%	1,112,851	11.4%	51,116	97.6%	12,121	-	-	39.4%	1,176,088
Food	24.8%	625,274	7.0%	31,201	84.5%	10,489	-	-	22.3%	666,964
Leaves and Grass	3.0%	75,412	0.0%	0	11.6%	1,441	-	-	2.6%	76,853
Prunings and Trimmings	0.8%	19,613	0.0%	0	1.5%	191	-	-	0.7%	19,804
Branches and Stumps	0.0%	0	0.0%	0	0.0%	0	-	-	0.0%	0
Manures	0.0%	0	0.0%	0	0.0%	0	-	-	0.0%	0
Textiles	7.4%	188,044	2.1%	9,440 0	0.0%	0	-	-	6.6%	197,484
Carpet Remainder/Composite Organia	0.6% 7.5%	15,806	0.0% 2.3%	•	0.0% 0.0%	0 0	-	-	0.5% 6.7%	15,806
Remainder/Composite Organic Inerts and Other	6.1%	188,702 <b>153,845</b>	1.1%	10,474 <b>4,828</b>	0.0%	0	-	-	5.3%	199,176 <b>158,673</b>
Concrete	0.1%	9,593	0.0%	4,020	0.0%	0	_		0.3%	9,593
Asphalt Paving	0.4%	9,593	0.0%	0	0.0%	0		-	0.3%	9,593
Asphalt Roofing	0.0%	0	0.0%	0	0.0%	0	-	-	0.0%	0
Clean Dimensional Lumber	0.5%	13,147	1.0%	4,596	0.0%	Ő	-	-	0.6%	17,742
Clean Engineered Wood	0.1%	3,328	0.0%	0	0.0%	Ő	-	-	0.1%	3,328
Clean Pallets & Crates	2.0%	50,259	0.0%	0	0.0%	0	-	-	1.7%	50,259
Other Wood Waste	2.1%	53,274	0.0%	0	0.0%	0	-	-	1.8%	53,274
Gypsum Board	0.4%	10,465	0.0%	19	0.0%	0	-	-	0.4%	10,483
Rock, Soil and Fines	0.3%	7,437	0.0%	0	0.0%	0	-	-	0.2%	7,437
Remainder/Composite Inerts and Other	0.3%	6,342	0.0%	213	0.0%	0	-	-	0.2%	6,556
Household Hazardous Waste	0.1%	2,071	0.0%	82	0.0%	0	-	-	0.1%	2,153
Paint	0.0%	10	0.0%	0	0.0%	0	-	-	0.0%	10
Vehicle and Equipment Fluids	0.0%	0	0.0%	0	0.0%	0	-	-	0.0%	0
Used Oil	0.0%	0	0.0%	0	0.0%	0	-	-	0.0%	0
Batteries	0.0%	911	0.0%	38	0.0%	0	-	-	0.0%	950
Remainder/Composite Household Hazardous	0.0%	1,149	0.0%	43	0.0%	0	-	-	0.0%	1,193
Special Waste	3.7%	92,535	1.2%	5,416	0.0%	0	-	-	3.3%	97,950
Ash Treated Medical Waste	0.1% 0.7%	2,351	0.0% 0.0%	0 0	0.0% 0.0%	0 0	-	-	0.1% 0.6%	2,351
Bulky Items	0.7%	18,643 71,031	0.0%	4,073	0.0%	0	_		0.6%	18,643 75,103
Tires	2.8%	71,031	0.9%	4,073	0.0%	0		-	2.5%	1,343
Remainder/Composite Special Waste	0.0%	511	0.3%	1,343	0.0%	0	-		0.0%	511
Mixed Residue	<b>3.4%</b>	87,009	0.0%	96	0.0%	0	-		<b>2.9%</b>	87,105
						-				
Totals	100.0%	2,524,183	100.0%	447,666	100.0%	12,417	-	-	100.0%	2,984,265
Streams Sampled		52		42		3	0			97
TPEPY Percentages for material types may not total 100% due to rounding		.74	0	.13	(	0.00	0.00	)	U 0	.87

Percentages for material types may not total 100% due to rounding.

Tables detailing the composition for all 82 materials can be found in Appendix E: Detailed Composition Tables

# **Additional Analyses Results**

# Task 3 Analysis – Assessment of Commercial Curbside Diversion

In 2012 California's Mandatory Commercial Recycling (MCR) law went into effect, requiring businesses to take actions to divert materials from disposal. Businesses can meet the law by source-separating materials and having them delivered for recycling or composting. They can also meet the law by subscribing to a service that may include mixed-waste processing (i.e. recyclables are not separated and the entire waste stream is processed), as long as the results are comparable to source separation. In order to determine what's comparable to source separation, an assessment of that source separation is needed.

The goal of this task was to gain a better understanding of diversion from curbside source-separation systems for the commercial sector in general.

This was done by gathering data on materials placed in recycling and organics bins by businesses that subscribe to these services. This data was then combined with data on materials placed in disposal bins (Task 2 of the project) to get a comprehensive picture of the amounts of recoverable materials flowing to disposal and diversion through bin-based programs.

This data can be used to set a benchmark that mixed-waste processing should meet in order to be "comparable to source separation." Other diversion through non-curbside programs that occurs at businesses can happen whether the business uses recycling bins or mixed-waste processing; therefore, this other diversion stream was not included in the analysis. Only materials placed in bins that would be processed by a "clean" MRF (i.e., processes source-separated materials) or by an organics processing facility were included in this task.

This task assessed curbside diversion for the commercial sector as a whole, not by individual industry group. Since the law includes multi-family sites, this sector was included in the analysis. The Task 3 analysis includes quantity and composition data from only the sites with curbside diversion used in Task 2 (the generator-based disposal study) and Task 4 (the generator-based diversion study). The subset of generator sites included in the Task 3 analysis has different characteristics than the sites selected to participate in Task 4. The main difference is that all Task 3 sites have curbside diversion programs, but some Task 4 sites only have non-curbside diversion programs on-site. The distribution of samples between regions and industry groups in the two tasks is also different.

Figure 62 presents the annual tons generated by each stream for the businesses included in the Task 3 analysis (Task 3 Generators). This figure summarizes the quantity of materials placed in disposal bins, curbside recycling bins, and curbside organics bins. The Curbside Recycle and Curbside Organics quantities include the contamination—materials not typically acceptable in those streams such as food in recycling bins or glass in organics bins. As shown, approximately 75 percent of total generation at Task 3 Generators went to the Disposed stream.

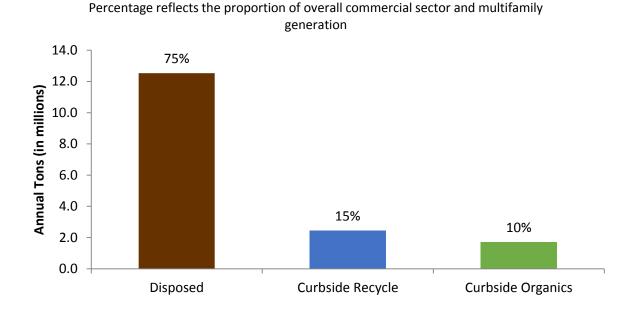
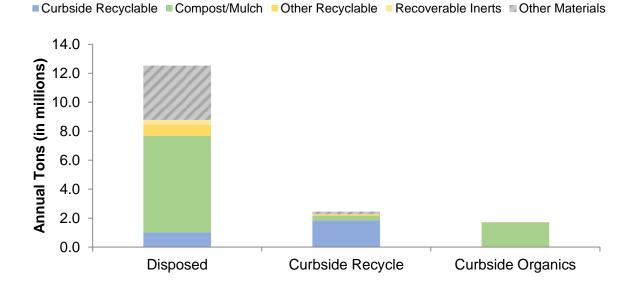


Figure 62. Annual Tons by Waste Stream: Task 3 Generator Sites

Each material stream was composed of many different material types, and each of those material types was assigned to one of the five recoverability groups. This figure, unlike similar figures elsewhere in the report, considers the contamination level when assigning a material to a recovery group. Table 96 in Appendix B: Material Definitions details the assignment of material types to recoverability groups for this figure. Figure 63 breaks down the potential recoverability (by recoverability group) for each stream for Task 3 Generators.

As shown, more than two-thirds of the Disposed stream was divertible. For Task 3 Generators, the Curbside Recycle contamination rate was 25 percent, and the Curbside Organics contamination rate was approximately 1 percent.



#### Figure 63. Recoverability by Stream: Task 3 Generator Sites

California Commercial Generator Waste Study

Figure 64 summarizes each recoverability group's proportion of total generation. In this figure, the **Compost/Mulch** quantity is the sum of the **Compost/Mulch** quantities in each stream, i.e., the sum of the green bars in the previous figure equals the green bar in this figure. The same holds true for each of the other recoverability groups. As Figure 64 illustrates, approximately 52 percent of total generation for Task 3 Generators was material in the **Compost/Mulch** recoverability group, and approximately 24 percent was **Other Materials**. When combined, divertible materials accounted for roughly 76 percent of generation for Task 3 Generators. This figure, unlike similar figures elsewhere in the report, considers the contamination level when assigning a material to a recovery group. Table 96 in Appendix B: Material Definitions summarizes the assignment of material types to recoverability groups for this figure.

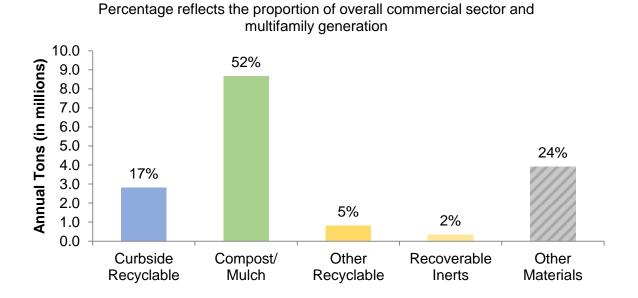


Figure 64. Recoverability of Materials Generated by Task 3 Generator Sites

As part of the Task 3 analysis, the field crew performed a more detailed sort of the Disposed, Curbside Recycle, and Curbside Organics stream samples obtained from some generators. The purpose of the contamination subsort was to estimate the fraction of the sorted materials that a MRF or organics processor could recover, recognizing that, due to contamination, not all "recoverable" material arriving at a facility is in a condition that permits its recovery. The field crew collected additional detail on the level and the source of contamination for certain materials on these samples. The 20 materials included in the contamination subsort are listed in Table 73. These materials are commonly accepted in curbside recycling programs. They also were included in the contamination subsort in CalRecycle's *California 2008 Statewide Waste Characterization Study*.

Table 73	. Materials	Included i	in the	Contamination	Subsort
----------	-------------	------------	--------	---------------	---------

Paper	Metal
Uncoated Corrugated Cardboard	Tin/Steel Cans - CRV Bimetal Containers
Paper Bags	Tin/Steel Cans - Other
Newspaper	Aluminum Cans - CRV
White Ledger	Aluminum Cans - Non-CRV
Other Office Paper	Plastic
Other Miscellaneous Paper - Compostable	PETE Containers - CRV
Other Miscellaneous Paper - Other	PETE Containers - Non-CRV
Remainder/Composite Paper - Rigid Food and Beverage Cartons	HDPE Containers - CRV
Remainder/Composite Paper - Compostable	HDPE Containers - Non-CRV
Remainder/Composite Paper - Other	Miscellaneous Plastic Containers (#3-&7) - CRV
	Miscellaneous Plastic Containers (#3-&7) - Non-CRV

The field crew assessed the level of contamination for these 20 materials using the following guidelines:

**Clean**. Material not soiled or contaminated in the bin that could reasonably be expected to be recycled in recycling programs targeting the material without special processing, cleaning, and/or repair. For example, a clean plastic soda bottle, dry office paper, or a clean, dry, and still folded newspaper.

#### Figure 65. Clean Materials



**Bin-Contaminated**. Material that appears to have been contaminated after disposal. Typically these materials are contaminated with moisture or food, such as a newspaper wet from a leaked beverage, a plastic soda bottle covered with food on the outside, or a bottle or can covered in grass clippings.

Figure 66. Bin-Contaminated Materials



#### Source-Contaminated.

Material that appears to have been contaminated through use or prior to disposal. For example, cardboard with a lot of tape, newspaper covered with paint used for masking, newspaper used to wrap fish, paper plates with food residue, or peanut butter jars with residue.

Figure 67. Source-Contaminated Materials



The field crew did not subsort *magazines and catalogs* or *phone books and directories*. The contaminated portion of these materials was calculated by applying the contaminated portion from the other subsorted **Curbside Recyclable** paper material types to the *magazines and catalogs* and *phone books and directories* quantities on a sample by sample basis. The composition and quantity data for Task 3 generator sites, including the contamination subsort detail, is included at the end of Appendix E: Detailed Composition Tables.

To estimate the proportion of commercial-sector generation actually recovered through curbside programs, the project team split the 82 material types considered for this study into two groups: standard recoverable materials and all other materials.

- **Standard Recoverable Materials:** materials that are accepted in most Curbside Recycle or Curbside Organics programs around the state, based on research done by CalRecycle on materials listed as acceptable in local jurisdiction programs.
- All Other Materials: all materials that are not included in the list of standard recoverable materials.

The two groups were correlated with the contamination subsort data to estimate the curbside recovery rate. Table 74 lists the standard recoverable materials and their recoverability for the Task 3 analysis. Materials marked with an X are considered recovered for the purposes of the analysis.

As shown in Table 75, approximately 21 percent of the material generated at businesses and multi-family complexes is recovered through curbside diversion programs capturing the standard recoverable materials.

	Cur	bside Recycle	Bins	Curb	side Organics	Bins
		Bin	Source		Bin	Source
	Clean	Contaminated	Contaminated	Clean	Contaminated	Contaminated
Uncoated Corrugated Cardboard	Х			Х	Х	Х
Paper Bags	Х			Х	Х	Х
Newspaper	Х			Х	X	Х
White Ledger Paper	Х			Х	X	Х
Other Office Paper	Х			Х	Х	Х
Magazines and Catalogs	Х			Х	X	Х
Phone Books and Directories	Х			Х	Х	Х
Other Miscellaneous Paper - Compostable				Х	X	Х
Other Miscellaneous Paper - Other	Х			Х	Х	Х
Remainder/Composite Paper - Compostable				Х	X	Х
Clear Glass Bottles and Containers - CRV	Х					
Clear Glass Bottles and Containers - Non-CRV	Х					
Green Glass Bottles and Containers - CRV	Х					
Green Glass Bottles and Containers - Non-CRV	Х					
Brown Glass Bottles and Containers - CRV	Х					
Brown Glass Bottles and Containers - Non-CRV	Х					
Other Colored Glass Bottles and Containers - CRV	Х					
Other Colored Glass Bottles and Containers - Non-CRV	Х					
Tin/Steel Cans - CRV Bimetal Containers	Х					
Tin/Steel Cans - Other	Х					
Aluminum Cans - CRV	Х					
Aluminum Cans - Non-CRV	Х					
PETE Containers - CRV	Х					
PETE Containers - Non-CRV	Х					
HDPE Containers - CRV	Х					
HDPE Containers - Non-CRV	Х					
Miscellaneous Plastic Containers - CRV	Х					
Miscellaneous Plastic Containers - Non-CRV	Х					
Food				Х	X	Х
Leaves and Grass				Х	Х	Х
Prunings and Trimmings				Х	Х	Х

#### Table 74. Standard Recoverable Materials for Task 3 Analysis

Materials marked with an X are considered recovered for the purposes of the analysis.

#### Table 75. Recovery Rate for Commercial Curbside Diversion

		Disposed Tons		Cur	bside Recycle 1	ons	Curb	side Organics	Tons			
	Clean	Bin Contaminated	Source Contaminated	Clean	Bin Contaminated	Source Contaminated	Clean	Bin Contaminated	Source Contaminated	Recovered Tons	Generated Tons	Percent Recovered
Uncoated Corrugated Cardboard	155,292	71,482	8,253	1,035,182	17,201	58,076	3,116	63	18	1,038,380	1,348,685	77.0%
Paper Bags	19,268	21,988	6,714	15,945	62	485	39	0	0	15,984	64,502	24.8%
Newspaper	104,316	120,611	19,708	89,170	34,772	0	45	812	0	90,027	369,434	24.4%
White Ledger Paper	119,029	43,706	8,382	133,712	1,867	1,123	0	48	0	133,760	307,867	43.4%
Other Office Paper	116,385	57,112	6,007	103,406	3,071	1,733	45	369	0	103,821	288,130	36.0%
Magazines and Catalogs	44,032	8,720	23,621	79,857	1,540	2,018	0	0	0	79,857	159,788	50.0%
Phone Books and Directories	2,097	377	1,597	2,025	417	151	0	0	0	2,025	6,664	30.4%
Other Miscellaneous Paper - Compostable	14,048	14,805	16,727	47,765	1,779	13,277	6,065	397	1,756	8,218	116,618	7.0%
Other Miscellaneous Paper - Other	174,951	175,361	45,380	118,719	1,496	4,950	420	202	0	119,341	521,479	22.9%
Remainder/Composite Paper - Compostable	194,629	7,396	1,098,247	14,581	51	4,250	0	3,954	23	3,978	1,323,132	0.3%
Clear Glass Bottles and Containers - CRV*	54,505	N/A	N/A	29,604	N/A	N/A	424	N/A	N/A	29,604	84,533	35.0%
Clear Glass Bottles and Containers - Non-CRV*	48,486	N/A	N/A	41,179	N/A	N/A	4,628	N/A	N/A	41,179	94,292	43.7%
Green Glass Bottles and Containers - CRV*	12,200	N/A	N/A	9,563	N/A	N/A	0	N/A	N/A	9,563	21,762	43.9%
Green Glass Bottles and Containers - Non-CRV*	36,110	N/A	N/A	45,811	N/A	N/A	7,325	N/A	N/A	45,811	89,246	51.3%
Brown Glass Bottles and Containers - CRV*	32,698	N/A	N/A	20,823	N/A	N/A	397	N/A	N/A	20,823	53,918	38.6%
Brown Glass Bottles and Containers - Non-CRV*	5,293	N/A	N/A	6,551	N/A	N/A	1,125	N/A	N/A	6,551	12,969	50.5%
Other Colored Glass Bottles and Containers - CRV*	297	N/A	N/A	0	N/A	N/A	0	N/A	N/A	0	297	0.0%
Other Colored Glass Bottles and Containers - Non-CRV*	667	N/A	N/A	349	N/A	N/A	0	N/A	N/A	349	1,016	34.3%
Tin/Steel Cans - CRV Bimetal Containers	1,104	0	4,345	1,260	0	39	22	0	0	1,260	6,770	18.6%
Tin/Steel Cans - Other	20,125	6,214	46,215	13,466	0	8,870	0	617	0	13,466	95,507	14.1%
Aluminum Cans - CRV	13,151	1,261	3,879	4,610	0	0	62	20	2	4,610	22,984	20.1%
Aluminum Cans - Non-CRV	2,787	161	3,126	2,151	0	936	0	0	0	2,151	9,161	23.5%
PETE Containers - CRV	31,151	1,258	12,569	20,186	0	564	373	59	0	20,186	66,159	30.5%
PETE Containers - Non-CRV	6,092	1,098	26,843	18,511	487	12,689	32	152	13	18,511	65,918	28.1%
HDPE Containers - CRV	3,863	0	3,487	1,318	0	13	0	0	0	1,318	8,681	15.2%
HDPE Containers - Non-CRV	10,182	1,333	47,174	20,752	1,561	4,710	23	56	0	20,752	85,790	24.2%
Miscellaneous Plastic Containers - CRV	1,229	256	3,713	282	0	17	0	0	0	282	5,497	5.1%
Miscellaneous Plastic Containers - Non-CRV	9,717	1,032	35,081	28,259	0	5,916	197	50	52	28,259	80,303	35.2%
Food*	3,320,900	N/A	N/A	65,473	N/A	N/A	275,510	N/A	N/A	275,510	3,661,883	7.5%
Leaves and Grass*	432,571	N/A	N/A	416	N/A	N/A	1,373,674	N/A	N/A	1,373,674	1,806,661	76.0%
Prunings and Trimmings*	259,666	N/A	N/A	6,269	N/A	N/A	28,603	N/A	N/A	28,603	294,538	9.7%
Standard Recoverable Materials Subtotal	5,246,840	534,172	1,421,068	1,977,196	64,305	119,817	1,702,125	6,800	1,863	3,537,852	11,074,185	31.9%
All Other Materials**	N/A	N/A	5,330,706	N/A	N/A	288,020	N/A	N/A	5,121	0	5,623,847	0%
Statewide Total for Businesses and Multifamily Complexes with Curbside Diversion	5,246,840	534,172	6,751,774	1,977,196	64,305	407,836	1,702,125	6,800	6,984	3,537,852	16,698,032	21.2%

\* These materials were not subsorted for contamination. All glass containers, food, leave and grass, and prunings and trimmings are assumed to be recovered if in the appropriate bin.

\*\*These are materials that are not typically recoverable and most of these materials were not subsorted for contamination.

# **Recruitment Survey Questions**

During the recruitment process, recruitment staff asked businesses several survey questions about other waste diversion and reduction practices, waste scavenging, and their knowledge of California's Mandatory Commercial Recycling (MCR) law.

Recruitment staff asked businesses about their participation in five waste reduction activities: a waste exchange, used equipment or edible food donation, ink or toner cartridge recycling, and converting from paper towels to hand dryers. The responses are summarized in in Table 76.

Proportion of businesses that reported participating in a waste exchange:	1%
Proportion of businesses that reported donating used equipment:	13%
Proportion of food-related businesses* that reported donating leftover food:	17%
Proportion of businesses that reported recycling ink and toner cartridges:	50%
Proportion of businesses that reported converting from paper towels to hand dryers:	7%

Table 76. Survey Responses for Partipation in Waste Reduction Activites

\* Includes Group 3 (Education), Group 4 (Hotels and Lodging), Group 6 (Manufacturing – Food and Nondurable Wholesale), Group 10 (Restaurants), and Group 11 (Retail Trade – Food and Beverage Stores).

Recruitment staff also asked businesses and multi-family complexes if their waste or recycling containers were scavenged for recoverable materials. As illustrated in Table 77, about 23 percent of businesses reported that their containers were occasionally or regularly scavenged. Similarly, 21 percent of multi-family complexes reported occasional or regular occurrences of scavenging. Businesses reported that the common materials targeted for scavenging included aluminum cans, plastic bottles, cardboard, and pallets. Many businesses also reported that employees will informally collect cans and bottles for redemption. When discussing scavenging, many businesses mentioned they also have regular occurrences of illegal dumping.

#### Table 77. Survey Responses for Scavenging

Businesses that reported outside scavenging of disposal or recycling containers:	23%
Multi-family complexes that reported outside scavenging of disposal or recycling containers:	21%

When recruitment staff asked businesses if they were aware of the state requirements for mandatory commercial recycling, about 12 percent of businesses reported knowing

about these requirements. Of these businesses, a little over 44 percent reported that they changed their recycling practices or pickup service as a result of these requirements. These results are also reported in Table 78.

## Table 78. Survey Responses for MCR

Businesses that reported knowing about MCR:	12%
Proportion of these that reported changing their recycling practices:	44%

# Weight-Based Disposal Rate Study

The goal of the weight-based disposal rate study was to design and conduct a study that would provide CalRecycle with an alternative method for estimating waste disposal rates at businesses. Disposal rate data collection for this study was different from the Task 2 disposal rate data collection in two ways: 1) the project team weighed entire dumpsters rather than only portions of materials as in Task 2; and 2) the project team used a bin-fullness sensor system, Enevo<sup>™</sup>, to track collection events. The Enevo<sup>™</sup> system uses wireless sensors that are installed in waste containers to detect bin fullness and record collection events. Each sensor sends this data over wireless cellular networks to the Enevo<sup>™</sup> servers to populate a visualization system that is accessible online.

This section presents the methods and results of this study and comparisons to the results of Task 2.

# Summary of Methods

## **Selection and Recruitment Process**

The weight-based disposal rate study was carried out in six jurisdictions where the local hauler approved installing Enevo<sup>™</sup> sensors in their containers over the course of the study. The study included two jurisdictions in each of the Bay Area, Southern, and Central Valley regions. This study focused on four businesses groups: Manufacturing – All Other; Restaurants; Retail Trade – All Other; and Services – Professional, Technical, & Financial.

The project team recruited individual businesses for participation in this weight-based disposal rate study using many of the same methods and tools used to recruit businesses for Task 2, though the sites used for the test did not participate in Task 2. The project team contacted each business to confirm eligibility and to collect employment data, operational hours, and collection schedules.

## Site Visits

Project team field staff collected weight and volume measurements at each of the selected businesses over a two-week period in February and March of 2015. During this period, field staff:

- Installed Enevo<sup>™</sup> sensors in all of the garbage dumpsters at each participating business.
- Used a pallet jack to weigh garbage dumpsters right before collection events. Field staff visited selected sites two to three times to take separate weight measurements. Field staff also weighed empty dumpsters to get a weight that the project team could subtract from the total weight of the full dumpster and generate the true weight of material in the dumpster.
- Recorded the length, width, and height of all accumulated material to the nearest inch each time a container was weighed.

## Calculations

The project team estimated annual tonnage for each site included in this study using a weight-based disposal rate. We calculated this rate by dividing the weight of waste material (determined using a pallet jack with an integrated scale) by the hours of operation since the last collection event recorded by the Enevo<sup>™</sup> system. We then multiplied this rate by annual hours of operation at the business to estimate annual tons.

We estimated the tons per employee per year, TPEPY, yards per employee per year, YPEPY, and average waste densities using the same calculations as in Task 2, which are presented in Appendix C: Description of Calculations.

### Results

Table 79 compares the results of the Task 2 study (Method 1) to the results of the weight-based disposal study (Method 2). The comparison is based on the results at 183 Task 2 sites and 131 sites sampled as part of the weight-based disposal study. Task 2 sites included in this comparison are businesses from one of the four targeted business groups and located in the Bay Area, Southern, or Central Valley region. The YPEPY estimates from Method 2 are lower than the estimates from Method 1 for all industry groups. The TPEPY estimates from Method 2 are also lower in all but one group, Restaurants. The Manufacturing – All Other and Restaurant density estimates from Method 2 are higher than the Method 1 density estimates. Method 2 density estimates for the other two industry groups are lower than their Method 1 estimates.

Table 79. Comparison of Task 2 and Weight-Based Disposal Study Results, byGroup

	Sampled Sites		Den	sity		ards per er Year	Tons per Empl. per Year		
	Method 1	Method 2	Method 1	Method 2	Method 1	Method 2	Method 1	Method 2	
Manufacturing - All Other	46	34	87.96	97.67	10.9	1.7	0.48	0.28	
Restaurants	46	34	149.12	157.83	27.4	16.9	2.04	2.37	
Retail Trade - All Other	47	33	142.10	99.22	29.7	18.6	2.11	1.15	
Services - Professional, Technical, & Financial	44	30	180.21	144.70	15.9	6.7	1.44	0.70	

Figure 68 presents the estimated TPEPY for the individual businesses sampled for Method 1 and Method 2 as a box and whisker plot. The bars represent the range of the second and third quartile TPEPYs, separated by a line representing the median value. The whiskers extending from the boxes mark the minimum TPEPY and interquartile range. Possible outliers are indicated with gray circles.

The box plot suggests that Method 2 TPEPY estimates are more representative than Method 1 TPEPY estimates. Most significantly, Method 2 TPEPY estimates for three out of the four business groups have a more normal distribution over the quartiles. Also for three out of the four business groups, Method 2 TPEPY estimates fall within a smaller interquartile range. Similarly, Method 2 consistently generated few outliers, which all occurred within a smaller range than Method 1 TPEPY estimates.

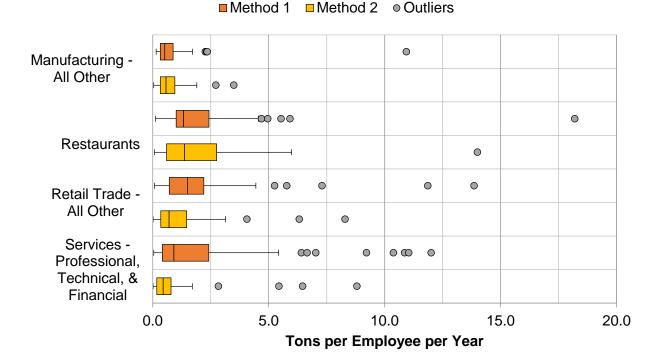


Figure 68. Business TPEPY Quartiles Comparisons of Task 2 and the Weight-Based Disposal Study

These results for Method 2 can be attributed to a more robust data collection system. For Method 2, the field crew collected multiple weight and volume measurements for each business compared to Method 1, which collected a single volume and weight measurement for each business. Method 2 accumulation period estimates are also more precise since they are based on actual bin collection times as recorded by the sensors, rather than estimated collection times reported by businesses. Finally, capturing weights of entire dumpsters both increases sample sizes and provides the information needed to directly estimate a weight based disposal rate, rather than converting volumes using density estimates.

# **Appendix A: Detailed Methodology**

# Overview

This Appendix is based on the document that served as the study design for the California Department of Resources Recycling and Recovery (CalRecycle) 2013-2014 Generator Waste Composition Study. This study design describes the methods that Cascadia Consulting Group (Cascadia) used to characterize and quantify disposal and diversion from individual commercial and multi-family generators statewide. The resulting quantification and characterization data provided CalRecycle with information about disposal and diversion activities among commercial and multi-family generators statewide and by industry group. Collecting composition and quantity data for each individual industry group provided information on sources of materials disposed and diverted by businesses and was useful in projecting future changes in the waste stream and developing relevant and effective education, outreach, and legislative strategies.

Cascadia followed a data collection strategy similar to that of the 1999 Statewide Waste Characterization Study and the 2006 Waste Disposal and Diversion Findings for Selected Industry Groups (the two most recent CalRecycle generator-based waste characterization studies). This study was divided into two major tasks:

- **Task 2:** Calculate industry group-specific data on the composition and quantity of disposed materials through sampling at 850 commercial and multi-family generator sites.
- **Task 4:** Calculate industry group-specific data on the composition and quantity of diverted materials through sampling of a 430-member subset of the commercial and multi-family generator sites recruited for the study. This task included any materials diverted through any method (including hauler-collected recycling and organics bins, back-hauling, self-hauling, take-back programs, and other methods) that would normally be a part of the waste stream. It excluded diversion of hazardous materials; medical waste; manufacturing and process chemicals; fats, oils, and grease; industrial quantities of tires; and other items that aren't normally accepted for disposal at a landfill, except for e-waste. Though e-waste is banned from landfills, the study did characterize and quantify the diversion of these materials.

The study also included a special analysis on a 230-member subset of the Task 4 generator sites. This task, referred to throughout the study as **Task 3**, aimed to gather data on materials placed in recycling and organics bins by businesses. This was done in order to develop a general assessment of the amount of recoverable materials put in the multiple bins used in source-separation programs, and of the performance of these programs. Therefore, the Task 3 analysis was limited to the commercially collected diversion at these sites, i.e., materials placed in collection containers provided by haulers or recyclers, that were delivered to a recycling or organics processing facility that processes source-separated materials. The analysis excluded the items diverted through other methods including back-hauling, self-hauling, take-back programs, and other methods.

The rest of this section presents the included industry groups and regions and the planned generator site allocations and distributions, and compares the methodologies for each task.

Detailed recruitment, sampling, and characterization methodologies are presented in the Recruitment and Field Sampling/Sorting sections.

# Industry Groups and Regions Included

Cascadia collected data from commercial and multi-family generators for the study from the industry groups and regions defined here.

## **Industry Groups**

Cascadia recruited commercial generators from 16 industry groups as well as multifamily complexes. All industry groups included in this study are listed in Table 81. Groups were designed using the North American Industry Classification System (NAICS). Industry groups were designed with several factors in mind: grouping business types with similar waste generation profiles and purposes; focusing on industries that generate large amounts of organics; focusing on industries with large employment in California; combining industries with less employment or less diversion opportunities; and project budget. The construction industry group was not included in this study because waste associated with this industry was mainly generated at building sites rather than the site of the business office. Waste generated from construction activities and sites was captured in a separate disposal facility-based study by CalRecycle. Groups 8 and 16 were lumped groups: Samples were allocated to the listed subgroups, but results were reported at the group level. The three-digit NAICS codes corresponding to each of the 16 industry groups are listed in Table 80.

			2013 St	atewide Empl	oyment
Group	Included		Large	Small	
Number	NAICS Codes	Industry	Businesses	Businesses	Total
1		Arts, Entertainment, & Recreation	278,709	45,371	324,080
	711	Performing Arts & Spectator Sports	58,846	9,580	68,425
	712	Museums, Historical Sites & Similar	18,667	3,039	21,706
	713	Gambling, Recreation, Amusement	201,196	32,753	233,949
2		Durable Wholesale & Trucking	483,172	158,428	641,600
	423	Durable Goods Wholesalers	216,022	111,284	327,306
	484	Truck Transportation	96,617	17,050	113,667
	491	Postal Service	53,171	9,383	62,554
	492	Couriers & Messangers	50,014	8,826	58,840
	493	Warehousing & Storage	67,348	11,885	79,233
3		Education	1,212,501	105,435	1,317,936
	611	Educational Services	1,212,501	105,435	1,317,936
4		Hotels & Lodging	158,238	64,633	222,871
	721	Accommodation	158,238	64,633	222,871
5		Manufacturing - Electronic Equipment	217,668	72,556	290,224
	334	Computer & Electronic Products	196,007	65,336	261,342
	335	Electrical Equipment & Appliances	21,662	7,221	28,882
6		Manufacturing - Food & Nondurable Wholesale	359,074	97,756	456,830
	311	Food Manufacturing	134,664	14,963	149,627
	312	Beverage & Tobacco Products	42,152	4,684	46,836
	424	Nondurable Goods Wholesalers	182,257	78,110	260,367

## Table 80. NAICS Codes and Industry Groups

			2013 St	atewide Emplo	oyment		
Group	Included		Large	Small			
Number	NAICS Codes	Industry	Businesses Businesses		Businesses Businesses		Total
7		Manufacturing - All Other	567,075	279,831	846,906		
	313	Textile Mills	5,561	3,266	8,827		
	314	Textile Product Mills	5,451	3,202	8,653		
	315	Apparel Manufacturing	35,780	21,013	56,793		
	316	Leather & Allied Products	2,087	1,226	3,313		
	321	Wood Products	10,844	10,009	20,853		
	322	Paper Products	13,919	6,856	20,775		
	323	Printing & Related Support Activities	27,849	13,716	41,565		
	324	Petroleum & Coal Products	10,534	3,146	13,680		
	325	Chemical Products	58,706	17,535	76,241		
	326	Plastics & Rubber Products	33,667	10,057	43,724		
	327	Nonmetallic Mineral Products	18,111	18,111 10,636			
	331	Primary Metal Manufacturing	10,471	8,567	19,038		
	332	Fabricated Metal Products	69,057	56,502	125,559		
	333	Machinery	56,163 15,841		72,004		
	336	Transportation Equipment	80,230 22,629		102,859		
	337	Furniture & Related Products	16,773	15,483	32,256		
	339	Miscellaneous Manufacturing	53,239	31,267	84,506		
	511	Publishing Industries, except Internet	58,634	28,879	87,513		
8		Medical & Health	1,133,402	358,548	1,491,950		
	621	Ambulatory Health Care Services	605,603	98,586	704,189		
	622	Hospitals	350,226		522,726		
	623	Nursing & Residential Care Facilities	177,573	87,462	265,035		
9		Public Administration	738,261	64,197	802,458		
	92X	Public Administration	738,261	64,197	802,458		
10		Restaurants	418,989	778,122	1,197,110		
	722	Food Services & Drinking Places	418,989	778,122	1,197,110		
11		Retail Trade - Food & Beverage Stores	278,847	65,409	344,256		
	445	Food & Beverage Stores	278,847	65,409	344,256		

			2013 St	atewide Empl	oyment
Group	Included		Large	Small	
Number	NAICS Codes	Industry	Businesses	Businesses	Total
12		Retail Trade - All Other	944,648	192,475	1,137,123
	441	Motor Vehicle & Parts Dealers	139,787	34,947	174,734
	442	Furniture & Home Furnishings	38,367	12,116	50,483
	443	Electronics & Appliance Stores	46,702	14,748	61,450
	446	Health & Personal Care Stores	82,228	25,967	108,195
	447	Gasoline Stations	42,202	10,551	52,753
	448	Clothing & Clothing Accessories	134,458	42,460	176,918
	451	Sporting Goods, Hobby, Books, Music	52,423	16,555	68,978
	452	General Merchandise Stores	307,049	3,102	310,151
	453	Miscellaneous Store Retailers	69,016	21,795	90,811
	454	Nonstore Retailers	32,414	10,236	42,650
		Services - Management, Administrative,			
13		Support, & Social	1,607,299	427,257	2,034,556
	425	Electronic Markets, Agents, Brokers	85,057	22,610	107,667
	551	Management of Companies & Enterprises	172,011	45,725	217,736
	561	Administrative & Support Services	739,136	196,479	935,615
	624	Social Assistance	488,806	129,936	618,742
	813	Religious, Civic, Professional & Similar	122,289	32,507	154,796
14		Services - Professional, Technical, & Financial	1,698,663	443,251	2,141,914
	515	Broadcasting, except Internet	39,466	2,971	42,437
	517	Telecommunications	82,153	6,184	88,337
	518	Data Processing, Hosting & Related	21,821	1,642	23,463
	519	Other Information Services	55,767	4,197	59,964
	521	Monetary Authorities - Central Bank	1,158	366	1,524
	522	Credit Intermediation & Related	189,609	59,876	249,485
	523	Financial Investment & Related	65,035	20,538	85,573
	524	Insurance Carriers & Related Activity	141,960	44,829	186,789
	525	Funds, Trusts, Other Financial Vehicles	190	60	250
	531	Real Estate	149,066	47,074	196,140
	532	Rental & Leasing Services	44,551	14,069	58,620
	533	Lessors of Nonfinancial Intangible Assets	2,177	687	2,864
	541	Professional & Technical Services	905,710	240,758	1,146,468

			2013 Statewide Employment			
Group	Included		Large	-		
Number	NAICS Codes	Industry		Businesses Businesses		
15		Services - Repair & Personal	189,395		300,627	
	811	Repair & Maintenance	91,773		145,672	
	812	Personal & Laundry Services	97,622		154,955	
16		Not Elsewhere Classified	923,939	-	1,077,373	
	111	Crop Production	150,217		174,671	
	112	Animal Production	24,328	3,960	28,288	
	113	Forestry & Logging	2,271	370	2,641	
	114	Fishing, Hunting & Trapping	401	65	466	
	115	Agriculture & Forestry Support Activities	176,879	28,794	205,673	
211 212 213		Oil & Gas Extraction	8,480	1,381	9,861	
		Mining, except Oil & Gas	4,554	741	5,295	
		Support Activities for Mining	10,967	1,785	12,752	
			95,129	10,570	105,699	
			28,985	120,771		
	481	Air Transportation	37,192	6,563	43,755	
	482	Rail Transportation	155	27	182	
	483	Water Transportation	4,296	758	5,054	
	485	Transit & Ground Passenger Transport	61,226	10,805	72,030	
	486	Pipeline Transportation	2,281	403	2,684	
	487	Scenic & Sightseeing Transportation	3,502	618	4,120	
	488	Support Activities for Transportation	81,790	14,434	96,224	
	512	Motion Picture & Sound Recording	127,713	14,190	141,903	
	562	Waste Management & Remediation Services	40,774	-	45,304	
		Total	11,209,881	3,417,933	14,627,814	

For each group, the number of employees in the Size Break column of Table 81 distinguished small businesses from large businesses. The size break was selected so that approximately 20 percent of employment in a group fell into small businesses and approximately 80 percent fell into large businesses. During recruitment, we attempted to obtain a 4:1 ratio between large businesses and small businesses for each industry group. This was a group level target; the ratio within each region or season may not be 4:1. Since small businesses often represent the majority of the number of businesses, but large businesses often represent the majority of employment in an industry group, this ensured each size class was properly represented. Very small businesses, those with fewer than five employees, were excluded from the study because they do not generate enough material weekly to meet the minimum sample weights and frequently share bins with other businesses, though the annual employment figures included employment at these small businesses. Multi-family complexes were defined as residences with more than four units. Residences with four or fewer units were not included in this study. Note: Disposal characterization data for multi-family sites was collected as part of the accompanying disposal facility-based study, but multi-family diversion characterization was part of this study.

	Industry Group				
Number	Name	Size Break			
1	Arts, Entertainment, & Recreation	20			
2	Durable Wholesale & Trucking	20			
3	Education	20			
4	Hotels & Lodging	50			
5	Manufacturing - Electronic Equipment	100			
6	Manufacturing - Food & Nondurable Wholesale	20			
7	Manufacturing - All Other	50			
8	Medical & Health				
	Ambulatory Health Care Services	10			
	Hospital, Nursing, & Residential Care Facilities	50			
9	Public Administration	20			
10	Restaurants	20			
11	Retail Trade - Food & Beverage Stores	20			
12	Retail Trade - All Other	10			
13	Services - Management, Administrative, Support, & Social	20			
14	Services - Professional, Technical, & Financial	10			
15	Services - Repair & Personal	10			
16	Not Elsewhere Classified				
	Agriculture & Resources	20			
	Utilities & Waste Management				
	Retail Trade - Building Materials & Garden				
	Transportation - All	20			
	Motion Picture & Sound Recording	20			
01	Multifamily	N/A			

Table 81. Task 2 Industry Groups used for Recruitment and Sampling Goals

### Regions

Cascadia recruited generators from the five regions illustrated in Figure 69. These were the same regions used in all CalRecycle waste characterization studies. See CalRecycle's 1999 Statewide Waste Characterization Study for background on how regions were developed.





The distinguishing characteristics of the five regions are described below.

- **Coastal**—included the counties on or near the coast that are not in either the Bay Area or Southern regions. The Coastal region is more populated than the rural Mountain region and has a large agricultural component similar to the Central Valley.
- **Bay Area**—included the counties in the San Francisco Bay Area, which are more metropolitan and have strong industrial components.
- **Southern**—included counties that are strongly industrial with large populations and some agricultural influences.
- **Mountain**—included counties that are primarily rural, with strong agricultural economies, low population density, and a low industrial base.
- **Central Valley**—included counties between the Sierra Nevada Mountains and the Coast Range that have a major agricultural base with important population centers and some manufacturing.

Table 82 lists the counties within each region.

Coastal	Bay Area	Southern	Mountain	Central Valley
Del Norte	Alameda	Imperial	Alpine	Butte
Humboldt	Contra Costa	Los Angeles	Amador	Colusa
Lake	Marin	Orange	Calaveras	Fresno
Mendocino	Napa	Riverside	El Dorado	Glenn
Monterey	San Francisco	San Bernardino	Inyo	Kern
San Benito	San Mateo	San Diego	Lassen	Kings
San Luis Obispo	Santa Clara	Ventura	Mariposa	Madera
Santa Barbara	Solano		Modoc	Merced
Santa Cruz	Sonoma		Mono	Placer
			Nevada	Sacramento
			Plumas	San Joaquin
			Sierra	Shasta
			Siskiyou	Stanislaus
			Trinity	Sutter
			Tuolumne	Tehama
				Tulare
				Yolo
				Yuba

#### Table 82. Division of the State's Counties into Five Sampling Regions

# Sample Allocations

Table 83 presents a high-level overview of the recruitment goals and requirements for each task. The recruitment process is detailed in the Recruitment section. Garbage samples were planned to be collected and sorted from all 850 sites. Diversion samples were planned to be collected and sorted from a 430-member subset of the 850 recruited sites. The sampling scheme was designed with the following ideas in mind: a focus on the disposed waste stream, in order to obtain robust data on materials still disposed; statistical variability of the streams (the diverted stream tends to be less variable); including an adequate number of sites to assess source separation for the commercial sector in general; and project logistics and budget constraints.

Task	Number of Recruited Generator Sites Included in the Task	Site Requirements
2	All 800 business and 50 multifamily sites	Business sites must have more than five employees. Multifamily sites must have more than four units. All sites must dispose of at least 200 pounds of garbage per week.
3	200 business and 30 multifamily sites	Sites must have recycling or organics collection service provided by a third party, typically a hauler or recycler. Sites are mostly a subset of the Task 4 sites.
4	400 business and 30 multifamily sites	Sites with any method or level of diversion (including no diversion) are elegible for this task. Sites are a subset of the 850 recruited generators.

#### Table 83. Overview of Recruitment Goals

Figure 70 illustrates the generator sites overlap between tasks. Sites included in the Task 3 special analysis were a subset of the sites included in Task 4. All Task 3 and Task 4 sites were a subset of the sites included in Task 2.

#### Figure 70. Recruitment Overlap between Tasks

Task 3-200 business and 30 multifamily sites

Task 4-400 business and 30 multifamily sites

## Task 2-800 business and 50 multifamily sites

Cascadia allocated samples approximately evenly among the four field seasons over 1 year, approximately corresponding to winter, spring, summer, and fall. During the sample allocation process, if samples did not split evenly (for example, when trying to split six samples across four seasons), Cascadia allocated samples randomly among the seasons to achieve a whole number distribution. Once the allocations were complete, if there were gross inequalities in the number of samples (for example, if one season was allocated 60 sites and the next was allocated 40 sites when they should each be allocated approximately 50 sites), then the project team reallocated individual sites to even out the distribution.

## Task 2 Garbage Sample Allocations

Cascadia allocated the 800 commercial generator sites evenly among the 16 industry groups with 50 generator sites per group. Samples were further allocated to regions within each industry group according to regional employment in that group as shown in Table 84. For example, the Bay Area region accounts for 18 percent of statewide employment in industry Group 6, therefore Cascadia recruited 18 percent of the samples for industry Group 6 from the Bay Area (18 percent \* 50 = 9 samples).

In addition to the 800 businesses recruited, the sample allocation included 50 multifamily sites, 10 from each region, as determined by the study design for the accompanying disposal facility-based study.

	Industry Group			Reg	ions		
Number	Name	Bay Area	Coastal	Mountain	Southern	Valley	Totals
1	Arts, Entertainment, & Recreation	11	2	1	30	6	50
2	Durable Wholesale & Trucking	10	1	0	31	8	50
3	Education	10	2	1	28	9	50
4	Hotels & Lodging	11	5	2	27	5	50
5	Manufacturing - Electronic Equipment	25	1	0	22	2	50
6	Manufacturing - Food & Nondurable Wholesale	9	3	0	25	13	50
7	Manufacturing - All Other	10	1	1	34	4	50
8	Medical & Health	11	2	1	28	8	50
	Ambulatory Health Care Services	5	1	1	14	4	25
	Hospital, Nursing, & Residential Care Facilities	6	1	0	14	4	25
9	Public Administration	8	3	2	23	14	50
10	Restaurants	11	2	1	29	7	50
11	Retail Trade - Food & Beverage Stores	11	3	1	27	8	50
12	Retail Trade - All Other	10	2	1	29	8	50
13	Services - Management, Administrative, Support, & Social	12	2	0	30	6	50
14	Services - Professional, Technical, & Financial	16	1	0	28	5	50
15	Services - Repair & Personal	11	2	0	30	7	50
16	Not Elsewhere Classified	7	5	1	22	15	50
	Agriculture & Resources	1	5	1	3	12	22
	Utilities & Waste Management	2	0	0	4	1	7
	Retail Trade - Building Materials & Garden	1	0	0	3	1	5
	Transportation - All	3	0	0	6	1	10
	Motion Picture & Sound Recording	0	0	0	6	0	6
	Commercial Subtotals	183	37	12	443	125	800
01	Multifamily	10	10	10	10	10	50
	Totals	193	47	22	453	135	850

Table 84. Allocation and Distribution of Recruited Generator Sites

## **Task 4 Recycling Sample Allocations**

Cascadia allocated the 400 commercial generator sites evenly among the 16 industry groups, 25 generator sites per group. Samples were further allocated to regions within each industry group according to regional employment in that group. For example, the Bay Area region accounts for 18 percent of statewide employment in Group 6. Therefore, Cascadia recruited approximately 18 percent of the samples for industry Group 6 from the Bay Area (18 percent \* 25 = 5 samples). In addition, a total of 30 multi-family sites (six sites per region) were included in Task 4. Where employment proportions resulted in "partial samples" in a region, some discretion was used to assign

whole samples to groups and regions to best represent the employment for the industry group.

Cascadia randomly selected approximately 430 of the 850 recruited generator sites to participate in Task 4. The Task 4 site allocation and distribution is shown in Table 85.

	Industry Group			Reg	ions		
Number	Name	Bay Area	Coastal	Mountain	Southern	Valley	Totals
1	Arts, Entertainment, & Recreation	6	1	1	14	3	25
2	Durable Wholesale & Trucking	5	1	0	15	4	25
3	Education	5	1	1	13	5	25
4	Hotels & Lodging	5	3	1	13	3	25
5	Manufacturing - Electronic Equipment	12	1	0	11	1	25
6	Manufacturing - Food & Nondurable Wholesale	5	2	0	12	6	25
7	Manufacturing - All Other	5	1	1	16	2	25
8	Medical & Health	6	1	1	13	4	25
	Ambulatory Health Care Services	3	0	1	6	2	12
	Hospital, Nursing, & Residential Care Facilities	3	1	0	7	2	13
9	Public Administration	4	2	1	11	7	25
10	Restaurants	5	1	1	14	4	25
11	Retail Trade - Food & Beverage Stores	5	2	1	13	4	25
12	Retail Trade - All Other	5	2	1	13	4	25
13	Services - Management, Administrative, Support, & Social	6	1	0	15	3	25
14	Services - Professional, Technical, & Financial	8	1	0	14	2	25
15	Services - Repair & Personal	6	1	0	14	4	25
16	Not Elsewhere Classified	4	3	1	10	7	25
	Agriculture & Resources	1	3	1	1	4	10
	Utilities & Waste Management	1	0	0	2	1	4
	Retail Trade - Building Materials & Garden	1	0	0	1	1	3
	Transportation - All	1	0	0	3	1	5
	Motion Picture & Sound Recording	0	0	0	3	0	3
	Commercial Subtotals	92	24	10	211	63	400
01	Multifamily	6	6	6	6	6	30
	Totals	98	30	16	217	69	430

 Table 85. Allocation and Distribution of Sites Selected to Participate in Diversion

 Sampling

#### **Task 3 Special Analysis Allocations**

Cascadia planned to randomly select 200 of the 800 recruited businesses for the Task 3 analysis. These approximately 200 businesses were a wholly contained subset of the businesses selected to participate in Task 4. The selected businesses had commercially collected, source-separated commercial recycling and/or organics diversion through bin service provided by a hauler or recycler. The number of businesses selected from each industry group and region were approximately proportional to statewide employment in each industry group and region. For example, approximately 0.5 percent of the total statewide employment (all groups combined) was in Group 6 in the Bay Area, so approximately 0.5 percent of the 200 samples (one sample) were selected from that strata. Cascadia also randomly selected 30 multi-family sites with commercial source-separated recycling or compost service from among the 50 recruited multi-family sites. Because the availability of multi-family sites with recycling service was variable between regions, the project team did not set allocations by region.

The 430 generator sites selected to participate in Task 4 included most of the Task 3 sites, but given that the Task 4 requirements were different than the Task 3 requirements, there wasn't a perfect overlap between the two tasks. Table 86 details, by industry group and region, the number of businesses planned to be selected for inclusion in the Task 3 analysis.

Industry Group				Reg	ions		
Number	Name	Bay Area	Coastal	Mountain	Southern	Valley	Totals
1	Arts, Entertainment, & Recreation	1	0	0	3	1	5
2	Durable Wholesale & Trucking	2	0	0	6	1	9
3	Education	3	1	0	10	3	17
4	Hotels & Lodging	1	0	0	2	0	3
5	Manufacturing - Electronic Equipment	2	0	0	2	0	4
6	Manufacturing - Food & Nondurable Wholesale	1	0	0	4	2	7
7	Manufacturing - All Other	2	0	0	9	1	12
8	Medical & Health	4	0	1	12	4	21
	Ambulatory Health Care Services	2	0	1	6	2	11
	Hospital, Nursing, & Residential Care Facilities	2	0	0	6	2	10
9	Public Administration	2	1	1	5	3	12
10	Restaurants	4	1	0	10	2	17
11	Retail Trade - Food & Beverage Stores	1	0	0	3	1	5
12	Retail Trade - All Other	3	1	0	9	3	16
13	Services - Management, Administrative, Support, & Social	5	1	0	14	3	23
14	Services - Professional, Technical, & Financial	9	1	0	16	3	29
15	Services - Repair & Personal	1	0	0	2	1	4
16	Not Elsewhere Classified	3	2	0	7	4	16
	Agriculture & Resources	0	2	0	1	4	7
	Utilities & Waste Management	1	0	0	2	0	3
	Retail Trade - Building Materials & Garden	1	0	0	1	0	2
	Transportation - All		0	0	1	0	2
	Motion Picture & Sound Recording	0	0	0	2	0	2
	Total	44	8	2	114	32	200

#### Table 86. Distribution and Number of Sites Included in the Task 3 Special Analysis

# Comparison of Task Methodologies

The methodologies for each of the three generator tasks were similar, but not the same; this section summarizes the similarities and differences in methodologies between the three tasks.

#### **Methodological Overlap**

All three tasks had the following approaches in common:

- **Recruitment efforts**—The same recruitment process was used for all three tasks. The generator sites selected for inclusion in Tasks 3 and 4 were a subset of the generator sites recruited for Task 2.
- Industry groups—The same industry group definitions were used in each task.
- **Sample collection process**—A consistent method was used to collect samples for all tasks.
- **Sample sorting procedure**—The same sorting procedure was used for sorting all collected samples, though the Task 2 samples were transported to a local disposal facility for sorting and Task 4 samples were sorted at the generator sites.
- **Material list**—The same list of 82 materials, as defined by CalRecycle, was used to characterize all samples. The complete material list can be found in Appendix B: Material Definitions.

#### Methodological Differences

The same basic methodology was used in all three tasks; the differences between tasks were isolated to the material streams characterized and the methods used to allocate samples among the regions and industry groups. The main differences between the tasks were:

- **Task 2** characterized and quantified disposal at all 850 recruited generator sites.
- **Task 4** sites were a subset of the 850 total generator sites. All diversion streams (including informal recycling markets and take-back programs) were characterized and quantified, in addition to the disposal stream at the 430 sites selected to participate in this task.
- **Task 3** sites were a subset of the Task 4 sites. For the Task 3 sites, only the commercially collected diversion that was placed in collection containers provided by haulers or recyclers was included in the analysis. The field crew performed a more detailed sort of the Disposed, Curbside Recycle, and Curbside Organics stream samples obtained from Task 3 generators. This detailed subsort consisted of further sorting certain material types according to the degree and source of contamination of the materials. The purpose of

the contamination subsort was to estimate the fraction of the sorted materials that a MRF or organics processor could recover, recognizing that not all "recoverable" material arriving at a facility was in a condition that permits its recovery due to contamination.

# Recruitment

Once waste samples for Task 2 were collected from generators, they were taken to a solid waste facility for sorting and disposal. Therefore, sampling areas consisted of areas within a 30-mile radius of randomly selected solid waste facilities (nodes). This section details the sorting facility and generator recruitment processes. In addition, this section details the information that Cascadia's recruiters collected from the nodes and the generators.

Node and generator recruitment were interconnected: Nodes were recruited first, and then generators were recruited within 30 miles of each selected node.

# Node Recruitment

CalRecycle staff used CalRecycle's Solid Waste Information System (SWIS) database to identify potential nodes. The pool of potential nodes included only permitted facilities that accept putrescible solid waste (i.e. food waste) for disposal or transfer/processing. The initial list was screened to remove sites that were too small, only processed construction and demolition materials, had limited operations, etc. Except for the Mountain region, the project team recruited one node per region for each of the seasons. Due to the low population and smaller number of businesses in the Mountain region, we only recruited two nodes for that region and only visited the region during two seasons.

CalRecycle staff then mapped the population density around each potential node and eliminated those in areas below a defined population density. The density cutoff was different in each region and reflected the population characteristics of each region. Staff then categorized the remaining potential nodes for each region as being in either high or low population density areas. To select four nodes for each region, staff randomized each list of potential nodes, started recruitment calls at the top of the list, and continued until we recruited three facilities in high-density areas and one facility in a low-density area.

The recruitment process included contacting the randomly ordered potential nodes, verifying their suitability as a sorting location, and confirming their willingness to participate. For each selected facility, we obtained contact information for individuals associated with the facility who (1) could authorize permission for data collection events, and (2) were responsible for managing the facility on a day-to-day basis.

The recruiters used a script for node recruitment. This script included a brief introduction to the study and to the needs of the field crew, and it asked for basic information about the best on-site point of contact, the facility's operations, and the facility's ability to

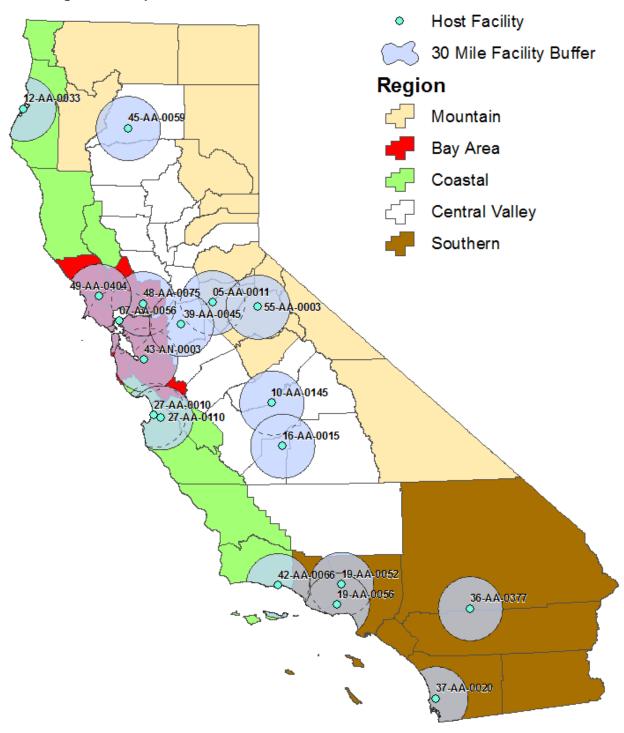
accommodate a space for sample storage and sorting. The recruitment script can be found in Appendix D: Field Forms.

The 18 facilities listed in Table 87 were recruited as nodes. Through the course of the study, some sites dropped out and other nearby sites were used as sorting sites, although the sampling areas around the original nodes remained the same.

Region	SWIS Number	Facility Name	Size	County	Season
Coasta	al				
	12-AA-0033	Hawthorne Street Transfer Station	Small	Humboldt	February
	27-AA-0110	Sun St. Transfer Station	Large	Monterey	April
	27-AA-0010	Monterey Peninsula Landfill	Large	Monterey	July
	42-AA-0066	MarBorg C&D Recycling & Transfer Facility	Large	Santa Barbara	October
Bay A	rea				
	43-AN-0003	Newby Island LF	Large	Santa Clara	February
	07-AA-0056	Golden Bear Transfer Station	Large	Contra Costa	April
	48-AA-0075	Potrero Hills Landfill	Large	Solano	July
	49-AA-0404	Central Transfer Station	Small	Sonoma	October
Moun	tain				
	05-AA-0011	Paloma Transfer Station	Large	Calaveras	April
	55-AA-0003	Pinecrest Transfer Station	Small	Tuolumne	July
South	ern				
	36-AA-0377	Morongo Valley (Trails End)	Small	San Bernardino	February
	19-AA-0052	Chiquita Canyon Landfill	Large	Los Angeles	April
	37-AA-0020	West Miramar Sanitary Landfill	Large	San Diego	July
	19-AA-0056	Calabasas Sanitary Landfill	Large	Los Angeles	October
Valley	,				
	39-AA-0045	Recology Stockton	Large	San Joaquin	February
	16-AA-0015	KWRA Material Recovery Facility	Large	Kings	April
	10-AA-0145	Rice Road Recyclery & Transfer Station	Large	Fresno	July
	45-AA-0059	City of Redding Transfer Station/MRF	Small	Shasta	October

#### Table 87. Selected Nodes

Cascadia assigned nodes to sampling seasons in the order that nodes were recruited. For instance, the first node recruited in each region was assigned to the first season (February), the second node was assigned to the second season (April), and so on. If needed, schedules were adjusted if requested by the selected facilities. We planned to visit the Mountain Region in April and July to avoid winter weather events that could block access to remote mountain locations. The nodes are mapped in Figure 71 along with their SWIS number and the 30 mile sample area around each node from which generators sites were recruited.



#### Figure 71. Map of Nodes with their SWIS Number

# **Generator Site Recruitment**

The generator recruitment process involved two key steps. First, the project team made initial phone calls to potential businesses to solicit their participation in the study. Second, the recruiters conducted follow-up calls to businesses that were willing and deemed eligible to participate in the study. These follow-up calls collected information regarding collection service, waste disposal and recycling practices, and logistics to aid in scheduling site visits. These two steps are presented in detail in the Recruitment Process section below. Cascadia continued recruitment until 800 businesses and 50 multi-family generators agreed to participate in the study. We collected garbage samples from all 800 businesses and 50 multi-family sites. An additional 80 contingency businesses (for a total of 880 businesses) were recruited to provide alternate sites in case a business declined to participate once the field crew arrived or logistical issues arose around the site visit.

## **Recruitment Scripts**

Cascadia provided a script for recruitment staff to use during generator recruitment. The script included: methods for staff to introduce the study concepts; methods to recruit generators to participate in the study; screening criteria that determined if generators were eligible for the study; and prompts for recruiters to collect the required contact information for the follow-up calls. Cascadia also provided a script for recruitment staff to use during follow-up calls to the recruited generators to collect information regarding collection service, waste disposal and recycling practices, and logistics to aid in scheduling site visits. Refer to Appendix D: Field Forms for an example of the Initial Business Recruitment Script.

## List of Eligible Business Sites

The project team acquired a list of businesses (with contact information) to include in the recruitment from a private business data clearinghouse. The steps in this process were:

 Map a 30 mile-radius circle around each selected node using GIS software. If the circle included areas from other regions, those areas were eliminated from the sampling area. For example, the orange region shown in Figure 72 would have been removed from the sampling area for this node (Potrero Hills Landfill) because the counties in the orange area were included in the Central Valley region and the node was part of the Bay Area region.

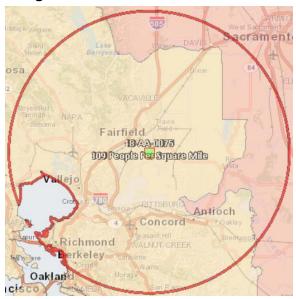
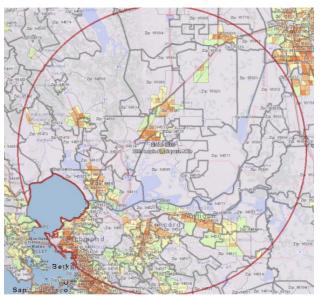


Figure 72. Node with 30-Mile Circle

Determine which ZIP codes were wholly or substantially within the node circle (GIS software was used to determine the percent of each ZIP code within the circle). ZIP codes outside of the region were excluded. For ZIP codes partially within the circle, if the ZIP code's major population center was within the node circle, the ZIP code was included. If the ZIP code's major population center was outside the node circle, the ZIP code was excluded. Figure 73 shows an example map with the ZIP code and population density information used to finalize ZIP code lists for each node.

Figure 73. Example Node with ZIP Codes



- Purchase a list of all businesses with more than five employees within the included ZIP codes. Businesses with fewer than five employees were excluded because they do not generate enough material weekly to meet the minimum sample weights.
- Randomize the list order, assign each business a unique ID number, and organize the list of businesses by industry group and node. Then, we imported the organized generator information into the recruitment database.

The ZIP codes for each node are listed in Table 88 through Table 92.

	Bay Area									
	February			Ap	-		Ju	ly	Octo	ober
94002	94536	95037	94005	94502	94591	94925	94503	94598	94503	94973
94010	94538	95050	94010	94503	94592	94930	94506	94599	94508	95401
94019	94539	95051	94014	94506	94595	94931	94507	94609	94515	95403
94020	94541	95053	94015	94507	94596	94933	94510	94611	94558	95404
94021	94542	95054	94030	94510	94597	94938	94512	94618	94559	95405
94022	94544	95070	94038	94517	94598	94939	94513	94702	94574	95407
94024	94545	95110	94044	94518	94599	94941	94517	94703	94576	95409
94025	94546	95111	94066	94519	94601	94945	94518	94704	94589	95436
94027	94550	95112	94080	94520	94602	94946	94519	94705	94590	95439
94028	94551	95113	94102	94521	94603	94947	94520	94706	94592	95442
94030	94552	95116	94103	94523	94605	94949	94521	94707	94599	95444
94035	94555	95117	94104	94525	94606	94951	94523	94708	94901	95446
94040	94556	95118	94105	94526	94607	94952	94525	94709	94903	95448
94041	94560	95119	94107	94528	94608	94954	94526	94710	94904	95450
94043	94566	95120	94108	94530	94609	94956	94528	94720	94922	95452
94061	94568	95121	94109	94533	94610	94960	94530	94801	94923	95462
94062	94577	95122	94110	94534	94611	94963	94531	94803	94924	95465
94063	94578	95123	94111	94541	94612	94964	94533	94804	94925	95472
94065	94579	95124	94112	94542	94613	94965	94534	94805	94928	95476
94066	94580	95125	94114	94544	94618	94970	94535	94806	94929	95492
94070	94583	95126	94115	94545	94619	94973	94547	95476	94930	
94074	94586	95127	94116	94546	94621	95442	94548	95620	94931	
94085	94587	95128	94117	94547	94702	95476	94549	95687	94933	
94086	94588	95129	94118	94549	94703		94553	95688	94937	
94087	94595	95130	94121	94552	94704		94556		94938	
94089	94601	95131	94122	94553	94705		94558		94939	
94128	94602	95132	94123	94556	94706		94559		94940	
94301	94603	95133	94124	94558	94707		94561		94941	
94303	94605	95134	94127	94559	94708		94563		94945	
94304	94606	95135	94128	94563	94709		94564		94946	
94305	94610	95136	94129	94564	94710		94565		94947	
94306	94611	95138	94130	94565	94720		94569		94949	
94401	94613	95139	94131	94569	94801		94571		94951	
94402	94619	95140	94132	94572	94803		94572		94952	
94403	94621	95141	94133	94577	94804		94585		94954	
94404	95002	95148	94134	94578	94805		94589		94956	
94501	95008	95192	94158	94579	94806		94590		94960	
94502	95013		94401	94580	94901		94591		94963	
94506	95014		94402	94583	94903		94592		94964	
94507	95030		94403	94585	94904		94595		94970	
94526	95032		94404	94589	94920		94596		94971	
94528	95035		94501	94590	94924		94597		94972	

Table 88. ZIP Codes in Bay Area Node, by Season

Coastal							
February	April	July	October				
95501	93901	93901	93013				
95503	93905	93905	93067				
95519	93906	93906	93101				
95521	93907	93907	93103				
95524	93908	93908	93105				
95525	93923	93923	93106				
95528	93924	93924	93108				
95536	93925	93925	93109				
95540	93926	93926	93110				
95547	93933	93933	93111				
95549	93940	93940	93117				
95550	93943	93943	93460				
95551	93950	93950	93463				
95562	93953	93953					
95564	93955	93955					
95565	93960	93960					
95570	95003	95003					
95573	95004	95004					
	95010	95010					
	95012	95012					
	95019	95019					
	95023	95023					
	95039	95039					
	95045	95045					
	95060	95060					
	95062	95062					
	95065	95064					
	95073	95065					
	95076	95066					
		95073					
		95076					

Table 89. ZIP Codes in Coastal Node,by Season

# Table 90. ZIP Codes in the Mountain Node,by Season

Mountain						
April	July					
95222	95223					
95223	95245					
95228	95246					
95232	95247					
95245	95251					
95246	95255					
95247	95257					
95249	95310					
95251	95321					
95252	95335					
95255	95346					
95257	95364					
95310	95370					
95327	95372					
95370	95379					
95623	95383					
95629	95666					
95640						
95642						
95665						
95669						
95682						
95684						
95685						
95689						

Southern											
February	April July			October							
92201	90024	91302	91390	91901	92081	92152	90001	90049	90401	91345	93003
92203	90025	91303	91401	91902	92082	92154	90002	90056	90402	91350	93004
92210	90027	91304	91402	91910	92083	92155	90003	90057	90403	91351	93010
92211	90028	91304	91403	91911	92084	92173	90004	90061	90404	91352	93012
92220	90035	91306	91405	91913	92091	92182	90005	90062	90405	91354	93015
92223	90036	91307	91406	91914	92096		90006	90064	90503	91355	93021
92230	90038	91307	91411	91915	92101		90007	90065	90504	91356	93030
92234	90046	91311	91423	91916	92102		90008	90066	90506	91360	93033
92240	90048	91311	91436	91917	92103		90010	90067	91011	91361	93035
92241	90049	91316	91501	91932	92104		90011	90068	91020	91362	93036
92252	90064	91320	91502	91935	92105		90012	90069	91040	91362	93041
92253	90067	91321	91504	91941	92106		90013	90071	91042	91364	93042
92256	90068	91324	91505	91942	92107		90014	90073	91201	91367	93043
92260	90069	91325	91506	91945	92108		90015	90077	91202	91371	93060
92262	90073	91326	91521	91950	92109		90016	90089	91203	91377	93063
92264	90077	91330	91522	91977	92110		90017	90095	91204	91381	93063
92270	90095	91331	91523	91978	92111		90018	90210	91205	91384	93065
92276	90210	91335	91601	92003	92113		90019	90211	91206	91387	93066
92277	90211	91340	91602	92007	92114		90020	90212	91207	91390	
92282	90212	91342	91604	92008	92115		90021	90230	91208	91401	
92284	90263	91343	91605	92009	92116		90024	90232	91214	91402	
92285	90265	91344	91606	92014	92117		90025	90245	91301	91403	
92305	90272	91345	91607	92019	92118		90026	90247	91302	91405	
92314	90290	91350	91608	92020	92119		90027	90249	91303	91406	
92315	90401	91351	93010	92021	92120		90028	90250	91304	91411	
92320	90402	91352	93012	92024	92121		90029	90254	91304	91423	
92339	90403	91354	93015	92025	92122		90031	90260	91306	91436	
92399	90404	91355	93021	92026	92123		90033	90263	91307	91501	
92549	91011	91356	93060	92027	92124		90034	90265	91311	91502	
92583	91020	91360	93063	92029	92126		90035	90265	91316	91504	
	91040	91361	93065	92037	92127		90036	90266	91320	91505	
	91042	91361	93066	92040	92128		90037	90272	91321	91506	
	91201	91362	93510	92054	92129		90038	90277	91324	91521	
	91202	91362	93532	92056	92130		90039	90278	91325	91522	
	91203	91364	93551	92057	92131		90041	90290	91326	91523	
	91204	91367		92064	92133		90042	90291	91330	91601	
	91206	91371		92065	92134		90043	90293	91331	91602	
	91207	91377		92067	92135		90044	90301	91335	91604	
	91208	91381		92069	92136		90045	90302	91340	91605	
	91214	91384		92071	92139		90046	90303	91342	91606	
	91301	91384		92075	92140		90047	90304	91343	91607	
	91301	91387		92078	92145		90048	90305	91344	91608	

Table 91. ZIP Codes in the Southern Node, by Season

	Valley					
Febi	ruary	April	July	October		
95202	95638	93202	93602	96001		
95203	95641	93212	93609	96002		
95204	95690	93221	93611	96003		
95205		93223	93612	96007		
95206		93230	93614	96008		
95207		93234	93616	96019		
95209		93235	93625	96022		
95210		93239	93626	96033		
95211		93242	93630	96047		
95212		93245	93631	96051		
95215		93247	93637	96059		
95219		93266	93638	96062		
95220		93267	93645	96069		
95230		93272	93648	96073		
95231		93274	93650	96080		
95236		93277	93651	96087		
95237		93286	93652	96088		
95240		93291	93654	96096		
95242		93292	93657			
95258		93609	93662			
95304		93615	93667			
95320		93616	93701			
95330		93618	93702			
95336		93625	93703			
95337		93631	93704			
95350		93646	93705			
95351		93647	93706			
95354		93648	93710			
95355		93652	93711			
95356		93654	93720			
95358		93656	93721			
95361		93662	93722			
95366		93706	93725			
95367		93725	93726			
95368		93727	93727			
95376			93728			
95377			93740			
95385			93741			
95391						
95615						
95632						
95632						

Table 92. ZIP Codes in the Valley Node, by Season

## List of Eligible Multi-Family Sites

The multi-family sites were recruited and samples were collected and sorted using the same methods as for businesses; however, the nodes used for the multi-family recruitment differed from the business nodes. Multi-family waste characterization for this study overlapped with CalRecycle's disposal facility-based study, which used a different set of facilities for waste sampling. Those disposal facilities were used as nodes for multi-family sampling. The steps to acquire a list of multi-family sites were to:

Map a circle with a 30-mile radius around each selected multi-family node.

Determine which cities were wholly or substantially within the node circle.

Develop a list of all multi-family sites within the included cities using an online Yellow Pages search.

Randomize the list order and assign each multi-family site a unique ID number. Then, import the organized generator information into the recruitment database.

#### **Recruitment Process**

The two-step process for recruiting commercial and multi-family generators is detailed below.

#### Step 1. Initial Recruitment

Project staff telephoned generators in the recruitment database to determine their eligibility and willingness to participate in the study. The recruiter attempted to speak with a manager or supervisor who could give permission for the site to participate in the study. The recruiter introduced the study concepts and described the study as consisting of two parts: (1) a telephone interview and (2) up to two site visits to measure disposal and diversion, obtain samples of the site's waste and recycling, and gather further site and additional diversion information. If the contact refused either of these parts, the recruiter removed the site from eligibility for the study. Cascadia staff assured each recruited business that findings would be recorded anonymously and that business identities would not be divulged to any parties outside of the core project team.

After a site agreed to participate in the study, the recruiter further determined eligibility by asking additional questions to ensure that the generator belonged to the targeted industry group, that there were no logistical barriers to sampling and data collection, and that the generator's waste stream was collected separately from that of other neighboring generators. If a business did not meet these broad criteria, or if it could not provide the information that would determine if it met these criteria, we did not include it in the study.

If the recruiter needed to discard a potential site for any reason, the next business on the list for that industry group was contacted. A recruiter could follow up with a business up to three times before rejecting that business from the study. Recruitment for each industry group continued until recruitment goals were met. An example recruitment call sheet is included in Appendix D: Field Forms.

#### Step 2. Follow-up Data Collection

After each generator had been confirmed as eligible and willing to participate, we conducted follow-up calls to collect additional information that was used to (1) determine how to arrange and conduct visits for data collection purposes, (2) quantify and characterize disposal and diversion, and (3) correlate disposal and diversion information with other information about the generator (such as number of employees, participation in recycling programs, number of visitors, etc.). The following information was collected.

#### **General Information**

- Name and physical address of the company/organization
- Names and contact information for the person(s) who could grant permission for participation in the study, the person(s) who could supply data related to waste disposal practices and quantities, and the person(s) who could assist directly with on-site measurement and sampling visits
- A general description of the nature of the business if it was not easily determined by the business name (e.g., if it was in the electronics industry, was it a manufacturer or a wholesaler?)

#### **Analytical Information**

- Hours and days during which waste and recycling were generated (sometimes different than business hours)
- Number of distinct material streams at the location
- Numbers, locations, and approximate sizes of containers for waste
- Days and times of scheduled waste and recycling service
- Times or ranges of time when waste was taken to dumpsters
- Name and contact information for all hauling companies that serve the location
- Characterization and quantification of disposal and diversion activities, to the extent that this could be determined over the phone
- Number of employees expressed as Full Time Equivalents (FTE) and total employees
- Tonnage information for businesses with compactors or roll-off containers for disposed waste
- Awareness regarding California's Mandatory Commercial Recycling (MCR) law

#### Logistical Information

- Hours during which it was possible for our team to schedule data collection visits
- Layout of the site (including a map if the location was large enough to merit it)

- Specific places to visit on-site in order to observe, quantify, and characterize waste
- Specific procedures for accessing the waste, gaining assistance, taking measurements, taking samples, etc.

Recruiters used the following approaches to facilitate the efficient collection of accurate diversion information.

- Using a list of typical material diversion activities to prompt discussions with
  personnel at generator sites. The recruitment form included a list of recycling
  and/or composting activities typical for business and multi-family sites as prompts
  to gather information about diversion at each site.
- Contacting headquarters of chain stores when local branches do not maintain recycling and diversion records. If an individual chain store had an existing recycling program but did not maintain information about its program at the individual store location, we contacted the chain headquarters and requested the information for the individual store.
- During follow-up calls, Cascadia staff again assured each business that all study data would be recorded anonymously and that business identities would not be divulged to any parties outside of the core project team. An example Business Recruitment Form is included in Appendix D: Field Forms.

Cascadia's in-office staff recorded all recruitment data in the recruitment database. Appendix D: Field Forms includes screenshots of the recruitment database.

## Task 3 and Task 4 Participation

The project team randomly selected 400 businesses and 30 multi-family sites with diversion activities for Task 4 from within the list of 800 businesses and 50 multi-family sites recruited for the study. These were not additional generators; they were a subset of the generators recruited to participate in the study. To select businesses for participation in Task 4, Cascadia organized recruited businesses into lists by industry group and region. Then, the project team randomized the lists and selected generators from each of these lists, starting at the top of each list and moving down until the sampling allocation within industry groups and regions were achieved. To select multi-family generators to meet Task 4 regional sampling allocations, Cascadia randomly selected six Task 2 multi-family sites from within each region.

One of the study objectives was to quantify total generation in each industry group by combining the Task 4 diversion data with the disposal data collection in Task 2. To avoid overestimating the diversion quantities for a group, generators with zero diversion (when randomly selected) were included in Task 4. We essentially treated these sites as generators with empty diversion containers. *This means a generator site selected for Task 4 may not have had any diversion*. If a business with zero diversion was randomly selected to participate in Task 4, it was included in the analysis but did not count toward the Task 4 recruitment target. Task 4 selection continued until 400 businesses with

diversion had been selected. This means the diversion composition and quantity calculations for some groups are based on more than 25 sites.

Task 3 was simply a separate analysis of only the *commercially collected* (i.e., by a commercial hauler or recycler) diversion samples from sites selected to participate in Task 4. To select sites for the Task 3 analysis, Cascadia filtered the list of Task 4 sites to include only generators with commercial source-separated recycling and/or organics collection service. Samples were distributed to reflect the overall statewide commercial sector based on employment by industry group and region. If the Task 3 allocations could not be met using the list of filtered Task 4 sites, we randomly selected additional generators from the list of Task 2 recruited sites and characterized their commercially collected diversion until we reached the required allocation of 230 sites.

## Generator Site Recruitment Quality Assurance/Quality Control

The purpose of QA/QC measures during business recruitment was to ensure that recruiters collect and communicate accurate information during recruitment so that data collection activities could proceed according to plan. After a business was initially recruited to participate in the study, Cascadia staff conducted follow-up calls to confirm the generator information that recruiters collected. We noted all of the required information on a separate form for later entry into the recruitment database. In our communications with businesses, Cascadia ensured that we were speaking to the individuals who were authorized to grant permission for data and sample collection and, if necessary, any other individuals associated with the site who were empowered and able to provide accurate information about the site's operations, waste service levels, and other relevant disposal information.

# **Field Sampling/Sorting**

This section provides a detailed description of the fieldwork processes for the three tasks, including: scheduling site visits, collecting samples, and sorting samples.

# **General Design Elements**

For disposal sampling, a four-member crew—one crew manager and up to three field crew members—collected and sorted samples. For diversion sampling, two crews—each consisting of a crew manager and a field crew member—collected and sorted samples. Each sampling crew was responsible for:

- Coordinating with the generator sites and nodes.
- Collecting waste, recycling, or organics samples as appropriate for the task.
- Collecting information to determine disposal rate or diversion rate data.
- Confirming the information collected during business recruitment.

The crew manager for each team tracked actual samples collected and sorted against targets. The crew manager also consistently checked the data sheets for errors or missing data that could be corrected in the field.

## **Sampling Schedule**

Sampling was planned to take place over approximately six weeks in each of four seasons. Season 1 was planned to begin in early February, Season 2 in April, Season 3 in July, and Season 4 in early October.

## **Field Crew Training and Supervision**

Prior to the commencement of sorting activities for each task, our entire field crew underwent training to learn the material types and sorting protocols for this study. This training also covered Cascadia's Health and Safety Plan, which is updated whenever new safety information, products, or regulations that apply to a project become available. The crew managers were responsible for implementing and maintaining safe working practices in their work areas and for answering worker questions about the Health and Safety Plan. For detailed health and safety measures, refer to Appendix H: Health and Safety Plan.

# **Scheduling Site Visits**

During the recruitment process, the recruiter documented all steps necessary for the field crews to visit the generator sites, access containers, and obtain a representative sample from each targeted stream. These steps specified where the crews should obtain each sample, how the crew could overcome any barriers to sampling (such as locked gates, closed facilities, locked dumpsters, and enclosed compactors), permissible time windows when the crews could obtain a representative sample from the site, and contact information for a person on-site who could assist with the sample collection process.

Recruiters considered several factors when suggesting an optimal time for a sampling visit: waste collection schedules, when the business takes the waste to the container(s), the hours of waste generation at the business, and the times when the container was accessible. We attempted to schedule site visits after an adequate time had passed since the last waste collection, but not so close to the next collection as to risk arriving just after a pick-up. The field crews scheduled a specific day and time for each visit if requested by the site. Otherwise, the field crew collected samples and completed site visits on a schedule that maximized both their efficiency and the quantity of waste at the site.

The following examples illustrate the considerations that went into timing an audit visit that involved measuring the amount of material in dumpsters. Separate considerations were given to each stream at each generator site.

## SCENARIO 1:

Trash taken to dumpster:	Continuously, 6 a.m. to 5 p.m.
Trash pick-up schedule:	Monday, Wednesday, Friday at 6 a.m.
Hours the dumpster was accessible:	8 a.m. to 5 p.m.

In this scenario, the recruiter would have concluded that the appropriate window for measurement was Tuesday or Thursday late afternoon, between 3pm and 5pm.

### SCENARIO 2:

Trash taken to dumpster:	Every night at 10 p.m.
Trash pick-up schedule:	Monday, Wednesday, Friday at 6 a.m.
Hours the dumpster was accessible:	8 a.m. to 5 p.m.

In this scenario, the recruiter would have attempted to have the business take their trash out earlier on the day in question, and assigned the observed amount of trash to the number of hours that the business had been in operation since the last collection.

## SCENARIO 3:

Trash taken to dumpster:	5 p.m. every day
Trash pick-up schedule:	Every Wednesday morning
Hours the dumpster was accessible:	8 a.m. to 5 p.m.

In this scenario, it would have been acceptable to record the amount of waste in the dumpster on Sunday, Monday, or Tuesday while noting whether the measurement included waste taken to the dumpster on the measurement day or not.

## SCENARIO 4:

Trash pick-up schedule: Ev

Every day at 10 a.m. and 4 p.m.

8 a.m. to 11 p.m.

Hours the dumpster was accessible:

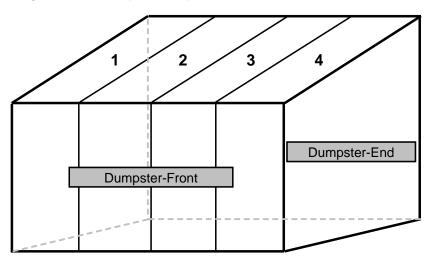
In this scenario, it would have been necessary to take the waste disposal measurements shortly before one of the two pick-ups on any given day.

# Sample Collection

The field crew manager visited each selected site to quantify disposal and diversion. For Task 2, the manager also collected one or more samples of disposed waste for transportation to the local node, where the field crew sorted the sample. Diversion samples were sorted at the generator site and returned to the diversion containers after sorting. The field crew collected disposal and diversion samples using the following procedure.

At participating sites with multiple containers from the same stream, staff randomly selected a single container for sampling to represent the site's stream. In cases where there were two or more distinct streams at a site, field crew randomly selected one waste container to sample for each stream.

The field crew randomly chose as a sample a vertical cross section, or "slice," of material from the selected container. Each sample consisted of all material in the slice, from the top to the bottom of the container. An illustration of the slices is shown in Figure 74. For garbage samples, the field crew ensured that each sample weighed at least 200 pounds. In cases where all of the material in the dumpster was less than 200 pounds, field crew drew waste from other containers in the same waste stream until they met the 200-pound sample requirement. In cases in which a business had less than 200 pounds available at the time of the visit, the sample crew collected all material available and returned later in the field season to collect the quantity of material needed to reach the 200-pound target. For diversion samples, the field crew collected all material in all containers for each stream, up to 125 pounds per stream. In cases in which all of the material for a stream was less than 125 pounds and the visit approximately coincided with the optimal sampling period, the sample was considered complete. In cases where all of the material for a stream was less than 125 pounds and the visit did not approximately coincide with the optimal sampling period, the field crew made one additional visit later in the field season to collect additional material.



#### Figure 74. Example Dumpster with Slices Illustrated

In cases where the material was inaccessible, unique arrangements were required for the sample collection to proceed. For example, if the site used a compactor, the team provided rolling carts for the businesses to deposit material into for one or more days rather than the compactor. The field crew then took material that accumulated in the rolling containers as the sample.

For garbage samples, the field crew contained the collected sample to prevent crosscontamination with other samples, labeled the sample with relevant details about its source using a sample placard, and transported the sample to the local node.

#### **Collect Disposal Quantity Information**

While on-site at each business, the field crew recorded the volume of waste in each container. We used this information to calculate annual disposed waste tonnage for each business and extrapolate these results to each industry group. The procedure for measuring waste during the site visit is described below. The field crew recorded this information on paper forms for later entry into the centralized generator database.

**Disposed Waste Volume Measurements:** The field crew recorded the length, width, and height to the nearest inch for all disposed waste at each site. The volume of the disposed waste at each site was the sum of all volumes for each waste container (if there was more than one container on-site), in cubic inches.

**Disposed Waste Accumulation Time:** During initial recruitment screening calls, recruiters asked the responsible party at the site for information to determine waste accumulation time, including the business operating hours, the time the waste containers were last collected by the hauler (or regular collection schedule), and when trash was regularly taken outside to dumpsters. While on-site, the field crew verified this critical information.

## **Collect Diversion Quantity Information**

While on-site, the field crew collected information about the amount of materials collected in recycling and composting containers. We used this as well as other information to calculate annual recycling and diversion quantities for each business. The procedure for measuring materials during the site visit is described below. The field crew recorded this information on paper forms for later entry into the centralized recruitment database.

**Diverted Material Volume Measurements:** The field crew recorded the length, width, and height to the nearest inch for all recyclable and compostable materials disposed in containers at each site. The volume of the diverted material at each site was the sum of all volumes for each container (if there was more than one container on-site), in cubic inches.

**Diverted Material Accumulation Time:** During initial recruitment screening calls, recruiters asked the responsible party at the site for information to determine diverted material accumulation time, including the business operating hours, the time the containers were last collected by the hauler (or regular collection schedule), and

when material was regularly taken to outside containers. While on-site, the field crew verified this critical information.

### Confirm Additional Diversion Practices

The field crew confirmed data for the additional diversion practices (such as backhauling, self-hauling, source reduction, and reuse) during the same visit where they sampled, sorted, and quantified the diversion streams collected in commercially hauled containers.

The recruitment staff collected information about the site's existing recycling, composting, and other diversion practices that the field crew reviewed before they arrived at the site for the diversion assessment. At each site, the field crew manager met with key personnel to discuss existing recycling, composting, or other diversion practices, and to document missing data not collected by the recruiters. The intent of these meetings was to verify quantity data and other information about diversion activities that the sampling and sorting of materials collected on-site did not capture.

## **Sorting Procedures**

The sorting process for garbage and diversion samples was the same except that samples from each task were sorted in different locations. Business garbage samples were transported for sorting and disposal to the local node. Multi-family garbage samples were sorted following the same protocol, but were collected and sorted as part of the accompanying disposal facility-based study, rather than this study. For diversion samples, the field crew sorted the samples on-site at each business or multi-family site.

After selecting and measuring the volume of each sample, the field crew sorted each sample using the following procedure.

**Photograph the sample.** The field crew placed the sample on a tarp. Using a digital camera, the crew manager took a photograph of the sample. A sample placard that identifies each sample was positioned so it was visible in each photograph.

**Sort the sample.** The field crew sorted samples by material types into plastic laundry baskets. The field crew members typically specialize in groups of materials, such as papers or plastics, and focus on sorting those materials from the rest of the sample. The field crew manager monitored the homogeneity of the component baskets as they accumulated, rejecting materials that were improperly classified. Open laundry baskets allowed the manager to see the material at all times. The material list that the field crew used to guide this sorting is presented in Appendix B: Material Definitions.

In general, material that was clean and dry or that was lightly contaminated was sorted into its material category. For example, damp cardboard was sorted as *uncoated corrugated cardboard* and a can of refried beans with a little left was sorted as *tin/steel cans – other*. Material that was substantially contaminated with other materials was sorted into the appropriate remainder/composite category.

For the Other Miscellaneous Paper and Remainder/Composite Paper types, the compostable portions were sorted separately. For example, items made entirely of paper that were sorted into remainder/composite <u>paper</u> that were substantially contaminated with moisture or food were put into *remainder/composite paper* – *compostable*, such as cardboard trays used for cakes that have a lot of food left on them. Paper items substantially contaminated with other things not desirable for composting (such as motor oil or paint) went into *remainder/composite paper* – *other*.

Weigh and record data. After each sample had been completely sorted, the field crew manager weighed the material in each category. The manager verified the purity of each component as it was weighed, before recording the weight. After verifying purity, the manager recorded the weights on paper field forms. The sample weight equaled the sum of the weights of all the sorted components.

For all sites included in the Task 3 analysis, both the disposed material stream samples and the commercially collected diverted material stream samples were sorted to a more detailed list. While the field crew sorted the samples from these generators into the materials listed in Appendix B: Material Definitions, they further sorted 20 of the material types into three subtypes: clean, bin-contaminated, or source-contaminated. The 20 materials included in the more detailed sort are listed in Table 93. This list corresponds to that used in the contamination subsort in CalRecycle's *California 2008 Statewide Waste Characterization Study.* 

Paper	Metal
Uncoated Corrugated Cardboard	Tin/Steel Cans - CRV Bimetal Containers
Paper Bags	Tin/Steel Cans - Other
Newspaper	Aluminum Cans - CRV
White Ledger	Aluminum Cans - Non-CRV
Other Office Paper	Plastic
Other Miscellaneous Paper - Compostable	PETE Containers - CRV
Other Miscellaneous Paper - Other	PETE Containers - Non-CRV
Remainder/Composite Paper - Rigid Food and Beverage Cartons	HDPE Containers - CRV
Remainder/Composite Paper - Compostable	HDPE Containers - Non-CRV
Remainder/Composite Paper - Other	Miscellaneous Plastic Containers (#3-&7) - CRV
	Miscellaneous Plastic Containers (#3-&7) - Non-CRV

 Table 93. Materials Included in the Contamination Subsort

The definition for each contamination category is included at Appendix B: Material Definitions. The contamination subsort was intended to provide CalRecycle with the information necessary to evaluate actual and potential diversion that occurs through bin-based source separation activities.

The sorting crew thoroughly cleaned the sorting area at the end of each sampling and sorting event.

# **Contingency Measures**

We included general contingency plans to address unforeseen circumstances that we anticipated could arise over the course of this study. Though our study design included

comprehensive measures to avoid delays or mishaps, we acknowledged the inevitability of such occurrences and planned contingency measures accordingly. These measures included the following:

**Over-recruitment of business and multi-family sites.** Initially we over-recruited businesses by 10 percent to accommodate for any recruited businesses that might drop out of the study after agreeing to participate. We also recruited one extra multi-family site for each geographical region, in the event that something prevented the capture of valid waste samples at the intended multi-family location.

Ideally, complete and high-quality data for both composition and waste quantity would be obtained for each site visited. This is not always the case. During the course of the study, data from each site was tracked and assessed for completeness and quality. In some cases, the composition data for a site could be good but the quantity data was incomplete (i.e., a representative sample meeting minimum weight requirements was collected and sorted, but the overall quantity of materials could not be estimated with confidence). In this case, the site counted toward the recruitment goal, the composition data was included in the composition calculations, and the quantity data was not used. If the quantity of materials in the desired stream could be estimated with confidence but a representative composition sample could not be obtained and sorted), the site did not count toward the goal, the quantity data was included in the quantity data was not used. This was included in the quantity data was not used. The site did not count toward the goal, the quantity data was included in the quantity data was not used. If the site did not count toward the goal, the quantity data was included in the quantity calculations, the composition data was not used, and an additional site was recruited to make up for the missing composition data. This process was repeated until the recruitment goals were met.

**Plan for repeat visits to meet sample weight goals.** If the field crew arrived to collect a sample and there was not enough material on-site to meet the minimum garbage sample weight of 200 pounds, we collected the garbage material available that day and planned to make an additional visit to complete the sample. Originally the field crew made repeat visits to the site in question until they achieved the minimum sample weight. As fieldwork progressed, a limit of two site visits in areas with fewer sampling sites, and three visits in larger areas, was adopted to maintain field efficiencies. Sampling crews were in smaller areas for shorter periods and therefore had smaller windows of time to accomplish sampling.

# Data Forms

Cascadia developed data collection forms specifically for this study. Examples of each of these forms are provided in Appendix D: Field Forms.

Site Visit (Bin Data) Forms were created to collect the site visit data for each generator site.

**Sample Placards** were created to identify samples after transportation from the generator site (for garbage samples) and to identify samples in pictures. The sample placards were brightly colored paper signs with the sample number pre-printed on the front.

Material Weight Tally Sheets were created to record the material weights for each sample.

**Sample Tracking Forms** were created to track the progress the field crews were making toward the sampling goals.

The data forms and database were developed prior to the start of sampling to ensure accuracy, consistency among forms, and efficient recording of data.

# Approach to Coordination

Due to the complex nature of each task in this study, we communicated with generators, haulers, and sort facilities to ensure we had all the information needed to complete the study effectively as well as keep all parties apprised of the collection and sampling activities. The approaches to coordination for each task are detailed below.

## **Pre-Field Sampling Planning and Coordination**

Prior to fieldwork, we prepared this study design that covers all three tasks. The design incorporates the fieldwork schedule as well as targeted numbers of samples, a plan for collecting and sorting samples, a description of how fieldwork was coordinated with all affected parties, methods and protocols for characterizing samples, health and safety measures, and general contingency measures.

## Coordination with Selected Sorting Sites, Haulers, and Generators

Cascadia contacted each selected sorting facility the week before and the day prior to each sorting event, and asked facility representatives to notify their staff of each sorting event. Upon arrival and prior to departing the node, the sorting crew checked in with the designated facility contact. The crew remained in communication with facility staff, such as loader drivers working in or near the sorting area, throughout their time at each site.

Once all generators had been recruited for a sampling season, a list of haulers and recyclers that serve these generators was provided to CalRecycle staff who then sent an informational letter to each hauler. An example letter can be found in Appendix D: Field Forms. Cascadia called affected haulers the week before the sampling began to remind the haulers of the upcoming sampling activities.

Cascadia called each scheduled business the week before sampling in their region began to remind the business that they had agreed to participate and to schedule a specific day and time for each visit if requested by the site.

# **Data Management Plan**

This section describes the processes Cascadia used to manage and analyze the data collected in this study. The Cascadia team performed all data entry and analysis in a manner that was consistent with and comparable to past research efforts using data management tools that were compatible with CalRecycle's approved protocols.

# **Quality Assessment/Quality Control**

Throughout every step of every task, the Cascadia team implemented sound quality control practices to ensure consistency, comparability, and accuracy of data. Our quality control measures were comprehensive and designed to provide multiple checks of the data collection and data entry processes.

Our highly experienced QA/QC manager directed and oversaw data entry and analysis across all research efforts and provided overall quality control for all work products and deliverables. Errors or discrepancies in data discovered during quality control were investigated, resolved (including additional sampling if necessary), and communicated to field team members to inform field supervision and data collection processes.

## Sorting and Quantification Data

For data collected during the sorting of each sample, the field crew manager reviewed the field forms every day and rectified any errors while the day's work was fresh in their mind. After reviewing the forms in the field, the field crew manager made copies of the forms and shipped the copies to Cascadia's home office for entry into a database. In-office staff performed random spot checks of the data entered into the database to ensure the accuracy of the data entry process.

For all other on-site data collection, including the quantification of disposal and diversion, the field crew reviewed their notes immediately upon completion of data collection and, if necessary, contacted the generator to ask any questions or clarify inconsistent information. Furthermore, if the generator did not have information available on-site, such as recycling invoices or receipts, the recruiter followed up with a phone call in one week to obtain the data. The field crew manager made copies of the forms produced, and the copies were shipped to Cascadia's office for entry into a database.

## **Data Entry**

Cascadia designed a customized data entry and analysis database for all field data. The database was designed with built-in safeguards to reduce the chance of errors. For example, each entry field only accepted data values that lie within appropriate ranges. The entry fields also required staff to enter all data twice, and automatically compared the entries, flagging any entries that do not match.

After each week of work, the field crew delivered all field forms to Cascadia's office for high-level review (to ensure that all fields were filled in, all field forms were accounted for, the necessary data was collected in each field, etc.). Any anomalies discovered during this step were reviewed and clarified with the field crew manager and/or the site. After review, the project team entered the data into the customized database. Cascadia's QA/QC manager inspected the entered data and resolved any anomalous data points (outliers) against the hand-written field forms and sample photos.

# Analysis

The methods and calculations for calculating means and descriptive statistics generally replicated those used in the previous CalRecycle generator studies from 1999 and 2006. Refer to Appendix C: Description of Calculations for detailed methods and calculations.

The Task 3 analysis included only the commercially collected diversion at the subset of sites selected for participation in the analysis. The Task 3 analysis excluded sites reporting substantial scavenging.

# **Appendix B: Material Definitions**

# Mapping the Material Types to the Compact List Used for Reporting

The field crew sorted samples into 82 unique material types. The detailed composition tables presented in the main body of the report aggregate those 82 materials into a compact list of 68 material types designed to focus on the divertible materials. Table 94 illustrates how the complete list of 82 materials was aggregated into the list of 68 materials. Composition tables containing data for all 82 types are found in Appendix E: Detailed Composition Tables.

Materials noted with an asterisk were included in a special contamination subsort. See Table 92 and Appendix A: Detailed Methodology for further information.

Material Type	2014 Compact Material List	2014 Expanded Material List
	Uncoated Corrugated Cardboard	Uncoated Corrugated Cardboard
	Paper Bags	Paper Bags
	Newspaper	Newspaper
	White Ledger Paper	White Ledger Paper
	Other Office Paper	Other Office Paper
ŗ	Magazines and Catalogs	Magazines and Catalogs
be	Phone Books and Directories	Phone Books and Directories
Paper	Other Miscellaneous Paper - Compostable	Other Miscellaneous Paper - Compostable
	Other Miscellaneous Paper - Other	Other Miscellaneous Paper - Other
	Remainder/Composite Paper - Compostable	Remainder/Composite Paper - Compostable
	Remainder/Composite Paper - Other	Remainder/Composite Paper - Rigid Food and Beverage Cartons Remainder/Composite Paper - Other
	Clear Glass Bottles and Containers	Clear Glass Bottles and Containers - CRV Clear Glass Bottles and Containers - Non-CRV
	Green Glass Bottles and Containers	Green Glass Bottles and Containers - CRV Green Glass Bottles and Containers - Non-CRV
Glass	Brown Glass Bottles and Containers	Brown Glass Bottles and Containers - CRV Brown Glass Bottles and Containers - Non-CRV
Θ	Other Colored Glass Bottles and Containers	Other Colored Glass Bottles and Containers - CRV Other Colored Glass Bottles and Containers - Non- CRV
	Flat Glass	Flat Glass
	Remainder/Composite Glass	Remainder/Composite Glass
	Tin/Steel Cans	Tin/Steel Cans - CRV Bimetal Containers Tin/Steel Cans - Other
	Major Appliances	Major Appliances
Metal	Used Oil Filters	Used Oil Filters
	Other Ferrous Metal	Other Ferrous Metal
ž	Aluminum Cans	Aluminum Cans - CRV Aluminum Cans - Non-CRV
	Other Non-Ferrous Metal	Other Non-Ferrous Metal
	Remainder/Composite Metal	Remainder/Composite Metal

## Table 94: Comparison between the 2014 Standard List and 2014 Expanded List

Material Type	2014 Compact Material List	2014 Expanded Material List
Electronics	Brown Goods	Brown Goods
	Computer-Related Electronics	Computer-Related Electronics
	Other Small Consumer Electronics	Other Small Consumer Electronics
	Video Display Devices	Video Display Devices - CRT Video Display Devices - Other
Plastic	PETE Containers	PETE Containers - CRV PETE Containers - Non-CRV
	HDPE Containers	HDPE Containers - CRV HDPE Containers - Non-CRV
	Miscellaneous Plastic Containers	Miscellaneous Plastic Containers - CRV Miscellaneous Plastic Containers - Non-CRV
	Plastic Trash Bags	Plastic Trash Bags
	Plastic Grocery and Other Merchandise Bags	Plastic Grocery and Other Merchandise Bags
	Non-Bag Commercial and Industrial Packaging Film	Non-Bag Commercial and Industrial Packaging Film
	Film Products	Film Products
	Other Film	Other Film - Flexible Plastic Pouches Other Film - Other
	Durable Plastic Items - #2-#5 Bulky Rigids	Durable Plastic Items - #2-#5 Bulky Rigids
	Durable Plastic Items	Durable Plastic Items - Other
	Remainder/Composite Plastic	Remainder/Composite Plastic
	Food	Food
nid	Leaves and Grass	Leaves and Grass
ga	Prunings and Trimmings	Prunings and Trimmings
Jrg	Branches and Stumps	Branches and Stumps
Other Organic	Manures	Manures
	Textiles	Textiles
	Carpet	Carpet
	Remainder/Composite Organic	Remainder/Composite Organic
Inerts and Other	Concrete	Concrete
	Asphalt Paving	Asphalt Paving
	Asphalt Roofing	Asphalt Roofing
	Clean Dimensional Lumber	Clean Dimensional Lumber
	Clean Engineered Wood	Clean Engineered Wood
	Clean Pallets and Crates	Clean Pallets and Crates
	Other Wood Waste	Other Wood Waste
	Gypsum Board	Gypsum Board
	Rock, Soil and Fines	Rock, Soil and Fines
	Remainder/Composite Inerts and Other	Remainder/Composite Inerts and Other

Material Type	2014 Compact Material List	2014 Expanded Material List
Household Hazardous	Paint	Paint
	Vehicle & Equipment Fluids	Vehicle & Equipment Fluids
	Used Oil	Used Oil
	Batteries	Batteries
	Remainder/Composite Household Hazardous	Mercury-containing Items - Not Lamps Lamps - Fluorescent and LED Remainder/Composite Household Hazardous
Special Waste	Ash	Ash
	Treated Medical Waste	Treated Medical Waste
	Bulky Items	Bulky Items
	Tires	Tires
	Remainder/Composite Special Waste	Remainder/Composite Special Waste
Mixed Residue	Mixed Residue	Mixed Residue

# **Material Definitions**

Materials noted with an asterisk were included in the contamination subsorts.

#### Paper

- Uncoated Corrugated Cardboard\* means a paper laminate usually composed of three layers. The center wavy layer is sandwiched between the two outer layers. It does not have any wax coating on the inside or outside. Examples include entire cardboard containers, such as shipping and moving boxes, computer packaging cartons, and sheets and pieces of boxes and cartons. This type does not include chipboard boxes such as cereal and tissue boxes. This type does include very clean (no food residue and only lightly stained) pizza boxes.
- 2. **Paper Bags**\* means bags and sheets made from kraft paper. The paper may be brown (unbleached) or white (bleached). Examples include paper grocery bags, clean fast food bags, department store bags, and heavyweight sheets of kraft packing paper.
- 3. **Newspaper**\* means paper used in newspapers. Examples include newspaper and glossy inserts found in newspapers, and all items made from newsprint, such as free advertising guides, election guides, plain news packing paper, stapled college class schedules, and tax instruction booklets.

- 4. White Ledger Paper\* means bleached, uncolored bond, rag, or stationery grade paper, without ground wood fibers. It may have colored ink on it. When the paper is torn, the fibers are white. Examples include white paper used in photocopiers and laser printers, and letter paper.
- 5. Other Office Paper\* means paper used in offices other than white ledger paper. Examples include colored ledger, computer paper, manila folders, manila envelopes, index cards, white envelopes, white window envelopes, white or colored notebook paper, ground wood computer paper, junk mail, and carbonless forms.
- 6. **Magazines and Catalogs** means items made of glossy coated paper. This paper is usually slick, smooth to the touch, and reflects light. Examples include glossy magazines, catalogs, brochures, pamphlets, and glossy advertisements.
- 7. **Phone Books and Directories** means thin paper between coated covers. These items are bound along the spine with glue. Examples include whole or damaged telephone books, yellow pages, real estate listings, and some nonglossy mail order catalogs.
- 8. Other Miscellaneous Paper Compostable\* means items made mostly of paper that could be composted, that do not fit into any of the other paper types. Paper may be combined with minor amounts of other materials such as wax or glues. Examples include pulp paper egg cartons, unused pulp paper plant pots, molded paper packing materials, some berry trays, some take-out food containers, and dirty molded paper plates.
- 9. Other Miscellaneous Paper Other\* means items made mostly of paper that do not fit into any of the other paper types, but that are generally recyclable or not generally composted. Paper may be combined with minor amounts of other materials such as wax or glues. This type includes items made of chipboard, ground wood paper, and deep-toned or fluorescent dyed paper. Examples include cereal and cracker boxes, paperboard boxes for software, unused paper plates and cups, goldenrod colored paper, school construction paper, butcher paper, ice cream cartons and other frozen food boxes, self-adhesive notes, and hard cover and paperback books.
- 10. Remainder/Composite Paper Rigid Food and Beverage Cartons\* means aseptic containers (multi-layered packaging that contains shelf-stable food products such as apple juice, soup, soy/rice milk, etc.) and "gable top" cartons (non-refrigerated items such as granola and crackers; refrigerated items such as milk, juice, egg substitutes, etc.). Rigid food and beverage cartons are usually paper-based, may be any shape, and may include a plastic pour spout as part of the carton.
- 11. **Remainder/Composite Paper Compostable**\* means items made mostly of paper, that don't fit into any other material types, that are combined or contaminated with large amounts of other materials such as wax, food, and

moisture, that are compostable. Examples include waxed corrugated cardboard, waxed paper, napkins, tissue, paper towels, fast food wrappers, food-soiled paper and moisture-soiled paper, all pizza boxes (unless at least 95 percent clean), and shredded paper.

12. **Remainder/Composite Paper - Other\*** means items made mostly of paper but combined with large amounts of other materials. These are items that do not fit into any other categories, are not generally compostable or recyclable, and are not food and beverage cartons. Examples include blueprints, sepia, onion skin, carbon paper, photographs, paper frozen juice cans, sheets of paper stick-on labels, and paper mailing envelopes lined with bubble wrap or plastic.

#### Glass

- Clear Glass Bottles and Containers CRV means clear glass containers that display the CRV notification. Examples include whole or broken clear soda bottles and fruit juice bottles, and whole or broken clear wine cooler bottles.
- 14. Clear Glass Bottles and Containers Non-CRV means clear glass containers that do not display the CRV notification. Examples include clear wine bottles, mayonnaise jars, and jam jars.
- 15. Green Glass Bottles and Containers CRV means green-colored glass containers that display the CRV notification. Examples include whole or broken green soda and beer bottles.
- Green Glass Bottles and Containers Non-CRV means green-colored glass containers that do not display the CRV notification. Examples include green wine bottles.
- 17. Brown Glass Bottles and Containers CRV means brown-colored glass containers that display the CRV notification. Examples include whole or broken brown beer bottles.
- 18. Brown Glass Bottles and Containers Non-CRV means brown-colored glass containers that do not display the CRV notification. Examples include whole or broken brown wine bottles.
- 19. Other Colored Glass Bottles and Containers CRV means other-colored glass containers that display the CRV notification. Examples include whole or broken blue soda and water bottles.
- 20. Other Colored Glass Bottles and Containers Non-CRV means othercolored glass containers that do not display the CRV notification. Examples include whole or broken blue or other colored wine or liquor bottles and other containers.

- 21. **Flat Glass** means clear or tinted glass that is flat. Examples include glass window panes, doors and table tops, flat automotive window glass (side windows), safety glass, and architectural glass. This type does not include automotive windshields, laminated glass, or any curved glass.
- 22. **Remainder/Composite Glass** means glass that cannot be put in any other type. It includes items made mostly of glass but combined with other materials. Examples include Pyrex, Corningware, crystal and other glass tableware, mirrors, non-fluorescent light bulbs, auto windshields, laminated glass, or any curved glass.

#### Metal

- 23. **Tin/Steel Cans CRV Bimetal Containers**\* means rigid containers that have steel sides and aluminum ends and that display the CRV notification. These cans are often used to store beverages.
- 24. **Tin/Steel Cans Other\*** means rigid containers made mainly of steel that are not CRV bimetal cans. These items will stick to a magnet and may be tincoated. This subtype is used to store food, beverages, paint, and a variety of other household and consumer products. Examples include canned food and beverage containers, empty metal paint cans, empty spray paint and other aerosol containers, and non-CRV bimetal containers with steel sides and aluminum ends.
- 25. **Major Appliances** means discarded major appliances of any color. These items are often enamel-coated. Examples include washing machines, clothes dryers, hot water heaters, stoves, and refrigerators. This type does not include electronics, such as televisions and stereos.
- 26. **Used Oil Filters** means metal oil filters used in motor vehicles and other engines, which contain a residue of used oil.
- 27. **Other Ferrous** means any iron or steel that is magnetic or any stainless steel item. This type does not include tin/steel cans. Examples include structural steel beams, metal clothes hangers, metal pipes, stainless steel cookware, security bars, and scrap ferrous items.
- 28. Aluminum Cans CRV\* means any food or beverage container that is made mainly of aluminum and that displays the CRV notification. Examples include most aluminum soda or beer cans. This subtype does not include bimetal containers with steel sides and aluminum ends.
- 29. Aluminum Cans Non-CRV\* means any food or beverage container that is made mainly of aluminum and that does not display the CRV notification. Examples include some pet food and meat cans.
- 30. **Other Non-Ferrous** means any metal item, other than aluminum cans, that is not stainless steel and that is not magnetic. These items may be made of aluminum, copper, brass, bronze, lead, zinc, or other metals. Examples

include aluminum window frames, aluminum siding, copper wire, shell casings, brass pipe, and aluminum foil.

31. **Remainder/Composite Metal** means metal that cannot be put in any other type. This type includes items made mostly of metal but combined with other materials and items made of both ferrous metal and non-ferrous metal combined. Examples include small non-electronic appliances such as toasters and hair dryers, motors, insulated wire, and finished products that contain a mixture of metals, or metals and other materials, whose weight is derived significantly from the metal portion of its construction.

#### Electronics

- 32. **Brown Goods** means generally larger, non-portable electronic goods that have some circuitry. Examples include microwaves, stereos, VCRs, DVD players, large radios, and audio/visual equipment. Does not include items with video display devices.
- 33. **Computer-Related Electronics** means electronics with large circuitry that is computer-related, not including monitors. Examples include processors, keyboards, printers, fax machines, mice, disk drives, and modems.
- 34. **Other Small Consumer Electronics** means portable non-computer-related electronics with large circuitry. Examples include personal digital assistants (PDAs), cell phones (including those with a screen larger than 4 inches), phone systems, phone answering machines, portable electronic book readers (like Kindles and Nooks) and other devices for reading static text, computer games and other electronic toys, portable CD players, camcorders, digital cameras, cell phone chargers and other electronic device chargers, and other electronic devices.
- 35. Video Display Devices CRT means items with video displays larger than 4 inches that contain a cathode ray tube (CRT). Examples include some televisions, computer monitors, and other items containing CRTs. The shape of the item is usually more boxy than flat.
- 36. Video Display Devices Other means items with video displays larger than 4 inches that are not CRTs nor are they included in the Other Small Consumer Electronics category. Examples include some televisions, computer monitors, portable DVD players, tablet computers (like the iPad and Kindle Fire), and laptop computers. The shape of the item is usually more flat than boxy, and the device is primarily intended to display moving video, perform computing functions, or view web content.

#### Plastic

37. **PETE Containers - CRV**\* means clear or colored PET containers that display the CRV notification. When marked for identification, it bears the number "1" in the center of the triangular recycling symbol and may also bear the letters

"PETE" or "PET." The color is usually transparent green or clear. A PET container usually has a small dot left from the manufacturing process, not a seam. It does not turn white when bent. Examples include soda and water bottles.

- 38. **PETE Containers Non-CRV\*** means clear or colored PET containers that do not display the CRV notification. When marked for identification, it bears the number "1" in the center of the triangular recycling symbol and may also bear the letters "PETE" or "PET." The color is usually transparent green or clear. A PET container usually has a small dot left from the manufacturing process, not a seam. It does not turn white when bent. Examples include non-CRV juice or water bottles, some liquor bottles, cooking oil containers, food jars, pastry jars, frozen food or other trays, clamshell packaging, and aspirin bottles.
- 39. HDPE Containers CRV\* means natural and colored HDPE containers that display the CRV notification. This plastic is usually either cloudy white, allowing light to pass through it (natural) or a solid color, preventing light from passing through it (colored). When marked for identification, it bears the number "2" in the triangular recycling symbol and may also bear the letters "HDPE." Examples include some small juice bottles.
- 40. **HDPE Containers Non-CRV\*** means natural and colored HDPE containers that do not display the CRV notification. This plastic is usually either cloudy white, allowing light to pass through it (natural) or a solid color, preventing light from passing through it (colored). When marked for identification, it bears the number "2" in the triangular recycling symbol and may also bear the letters "HDPE." Examples include milk jugs, detergent bottles, some hair-care bottles, some margarine and yogurt tubs, clamshell packaging, empty motor oil, empty antifreeze, and other empty vehicle and equipment fluid containers.
- 41. Miscellaneous Plastic Containers CRV\* means plastic containers that display the CRV notification that are made of types of plastic other than HDPE or PET. Items may be made of PVC, PP, or PS or mixed resins. When marked for identification, these items may bear the number "3," "4," "5," "6," or "7" in the triangular recycling symbol. This subtype also includes plastic containers that do not have the triangular recycling symbol.
- 42. **Miscellaneous Plastic Containers Non-CRV\*** means plastic containers that do not display the CRV notification that are made of types of plastic other than HDPE or PET. Items may be made of PVC, PP, or PS. When marked for identification, these items may bear the number "3," "4," "5," "6," or "7" in the triangular recycling symbol. This subtype also includes plastic containers that do not have the triangular recycling symbol. Examples include hardware and fastener packaging, food containers such as bottles for salad dressings and vegetable oils, flexible and brittle yogurt cups, syrup bottles, margarine tubs, microwave food trays, and clamshell-shaped fast food containers. This type

also includes some shampoo containers, vitamin bottles, foam egg cartons, and clamshell-like muffin containers.

- 43. **Plastic Trash Bags** means plastic bags sold for use as trash bags, for both residential and commercial use. This type includes garbage, kitchen, compactor, can-liner, composting, yard, lawn, leaf, and recycling bags. This type does not include other plastic bags, such as shopping bags, that might have been used to contain trash.
- 44. **Plastic Grocery and Other Merchandise Bags** means plastic shopping bags used to contain merchandise to transport from the place of purchase, given out by the store with the purchase. This type includes dry cleaning bags intended for one-time use. Does not include produce bags.
- 45. **Non-Bag Commercial and Industrial Packaging Film** means film plastic used for large-scale packaging or transport packaging. Examples include shrink-wrap, mattress bags, furniture wrap, and film bubble wrap.
- 46. **Film Products** means plastic film used for purposes other than packaging. Examples include agricultural film (films used in various farming and growing applications, such as silage greenhouse films, mulch films, and wrap for hay bales), plastic sheeting used as drop cloths, and building wrap.
- 47. Other Film Flexible Plastic Pouches means plastic pouches made of thicker, multi-layer flexible material. May have a flat bottom so that package would stand up on its own, but not always. Material is thicker than potato chip bags and frozen vegetable bags. Includes plastic coffee bags like Starbucks and Peet's; Capri Sun pouches; baby food pouches – may have plastic screw top; soup pouches; salad dressing pouches; wine pouches; backpacking meals in pouches; soap refill pouches; laundry detergent pouches; and other similar items.

Other Film - Flexible Plastic Pouches Examples				
INCLUDED – THICKER, MULTI- LAYER PACKAGING	EXCLUDED – THINNER, SINGLE- LAYER PACKAGING			
Plastic coffee bags (Starbucks and Peet's) Juice pouches (Capri Sun) Baby food pouches – may have plastic screw top Soup pouches Salad dressing pouches Wine pouches Backpacking meals in pouches Soap refill pouches Laundry detergent pouches Other similar items	Potato chip bags and similar Candy wrappers Tortilla bags Frozen food bags (vegetables, berries) Nut/snack bags Shrink plastic wrappers (Slim Jim and string cheese wrappers) Ziplock bags intended for home use Thin produce bags as used in grocery stores Newspaper bags Bread bags Small (2 inch) pouches for condiments (mustard, relish, etc.) Yogurt tubes (Gogurt) Mailing pouches, usually colored or white (not clear) (LL Bean, medication pouches) 100% plastic mailing pouches with bubble wrap Other similar items			

- 48. **Other Film Other** means all other plastic film that does not fit into any other type, excluding flexible plastic pouches. Examples include other types of plastic bags (sandwich bags, zipper-recloseable bags, newspaper bags, produce bags, frozen vegetable bags, bread bags), food wrappers such as candy-bar wrappers, potato chip bags, mailing pouches, bank bags, X-ray film, metallized film (such as balloons), and plastic food wrap.
- 49. Durable Plastic Items #2 and #5 Bulky Rigids means plastic items, other than containers or film plastic, that are large (generally larger than a soccer ball) rigid #2 HDPE or #5 PP plastic bulky items. These items are made to last for more than one use. These items usually bear the number 2 or 5 in the triangular recycling symbol. Examples include: crates, buckets (including 5-gallon buckets), baskets, totes, large plastic garbage cans, large tubs, large storage tubs/bins (usually with lids) that don't have sharp corners, flexible (non-brittle) flower pots of 1 gallon size or larger, lawn furniture, large plastic toys, tool boxes, first aid boxes, and some sporting goods.
- 50. **Durable Plastic Items Other** means plastic items other than containers or film plastic that are often made to last for more than one use that are not large

rigid items made from #2 or #5 plastics. These items may bear the numbers 1 through 7 in the triangular recycling symbol. Examples include CDs and their cases, plastic housewares such as dishes, cups, and cutlery. This type also includes building materials such as house siding, window sashes and frames, housings for electronics such as computers, televisions and stereos, fan blades, and plastic pipes and fittings.

51. Remainder/Composite Plastic means plastic that cannot be put in any other type. These items are usually recognized by their optical opacity. This type includes items made mostly of plastic but combined with other materials. Examples include auto parts made of plastic attached to metal, plastic drinking straws, foam drinking cups, plastic cups, produce trays, foam meat and pastry trays, foam packing blocks, packing peanuts, cookie trays found in cookie packages, plastic strapping, plastic lids, some kitchen ware, some toys, foam plates/bowls, window blinds, plastic lumber, insulating foam, imitation ceramics, handles and knobs, plastic string (such as used for hay bales), plastic rigid bubble/foil packaging (as for medications), small (less than 1 gallon) plant containers such as nursery pots and plant six-packs, and new Formica, new vinyl, or new linoleum.

# **Other Organics**

- 52. **Food** means food material resulting from the processing, storage, preparation, cooking, handling, or consumption of food. This type includes material from industrial, commercial, or residential sources. Examples include discarded meat scraps, dairy products, eggshells, fruit or vegetable peels, and other food items from homes, stores, and restaurants. This type includes grape pomace and other processed residues or material from canneries, wineries, or other industrial sources.
- 53. Leaves and Grass means plant material, except woody material, from any public or private landscape. Examples include leaves, grass clippings, plants, and seaweed. This type does not include woody material or material from agricultural sources.
- 54. **Prunings and Trimmings** means woody plant material up to 4 inches in diameter from any public or private landscape. Examples include prunings, shrubs, and small branches with branch diameters that do not exceed 4 inches. This type does not include stumps, tree trunks, branches exceeding 4 inches in diameter, or material from agricultural sources.
- 55. **Branches and Stumps** means woody plant material, branches, and stumps that exceed 4 inches in diameter, from any public or private landscape.
- 56. **Manures** means manure and soiled bedding materials from large domestic, farm, or ranch animals. Examples include manure and soiled bedding from animal production operations, racetracks, riding stables, animal hospitals, and other sources. Does not include feces from small household pets such as dogs and cats.

- 57. **Textiles** means items made of thread, yarn, fabric, or cloth. Examples include clothes, fabric trimmings, draperies, and all natural and synthetic cloth fibers. This type does not include cloth-covered furniture, mattresses, leather shoes, leather bags, or leather belts.
- 58. **Carpet** means flooring applications consisting of various natural or synthetic fibers bonded to some type of backing material. This type does not include carpet padding or woven rugs with no backing.
- 59. **Remainder/Composite Organic** means organic material that cannot be put in any other type. This type includes items made mostly of organic materials, but combined with other material types. Examples include leather items, cork, hemp rope, garden hoses, rubber items, hair, carpet padding, cigarette butts, diapers, feminine hygiene products, small wood products (such as Popsicle sticks and toothpicks), sawdust, agricultural crop residues, and animal feces from small household pets such as dogs and cats.

# **Inerts and Other**

- 60. **Concrete** means a hard material made from sand, aggregate, gravel, cement mix, and water. Examples include pieces of building foundations, concrete paving, and concrete/cinder blocks. This category includes concrete with a steel internal structure composed of reinforcing bars (re-bar) or metal mesh.
- 61. **Asphalt Paving** means a black or brown, tar-like material mixed with aggregate used as a paving material.
- 62. **Asphalt Roofing** means composite shingles and other roofing material made with asphalt. Examples include asphalt shingles and attached roofing tar and tar paper.
- 63. **Clean Dimensional Lumber** means unpainted new or demolition dimensional lumber. Includes materials such as 2 x 4s, 2 x 6s, 2 x 12s, and other residual materials from framing and related construction activities. May contain nails or other trace contaminants.
- 64. **Clean Engineered Wood** means unpainted new or demolition scrap from sheeted goods such as plywood, particleboard, wafer board, oriented strand board, and other residual materials used for sheathing and related construction uses. May contain nails or other trace contaminants.
- 65. Clean Pallets and Crates means unpainted wood pallets, crates, and packaging made of lumber/engineered wood.
- 66. **Other Wood Waste** means wood waste that cannot be put into any other material type. This type may include untreated/unpainted scrap from production of prefabricated wood products such as wood furniture or cabinets, untreated or unpainted wood roofing and siding, painted or stained wood, and treated wood.

- 67. **Gypsum Board** means interior wall covering made of a sheet of gypsum sandwiched between paper layers. Examples include used or unused broken or whole sheets. Gypsum board may also be called sheetrock, drywall, plasterboard, gypboard, gyproc, or wallboard. Includes painted gypsum board.
- 68. Rock, Soil and Fines means rock pieces of any size and soil, dirt, and other matter. Examples include rock, stones, sand, clay, soil and other fines. This type also includes nonhazardous contaminated soil.
- 69. **Remainder/Composite Inerts and Other** means inerts and other material that cannot be put in any other type. This type may include items from different types combined, which would be very hard to separate. Examples include brick, ceramics, tiles, toilets, sinks, dried paint not attached to other materials, and fiberglass insulation. This type may also include demolition debris that is a mixture of items such as plate glass, wood, tiles, gypsum board, synthetic counter tops, fiber or composite acoustic ceiling tiles, and aluminum scrap.

# Household Hazardous Waste (HHW)

- 70. **Paint** means containers with paint in them. Examples include latex paint, oilbased paint, and tubes of pigment or fine art paint. This type does not include dried paint, empty paint cans, or empty aerosol containers.
- 71. **Vehicle and Equipment Fluids** means containers with fluids used in vehicles or engines, except used oil. Examples include used antifreeze and brake fluid. This type does not include empty vehicle and equipment fluid containers.
- 72. **Used Oil** means the same as defined in Health and Safety Code section 25250.1(a). Examples include spent lubricating oil such as crankcase and transmission oil, gear oil, and hydraulic oil.
- 73. **Batteries** means any type of battery including both dry cell, rechargeable, and lead acid. Examples include car, flashlight, small appliance, watch, and hearing aid batteries.
- 74. **Mercury-Containing Items Not Lamps** means items other than lamps that are readily identifiable as containing mercury such as thermostats and thermometers.
- 75. Lamps Fluorescent and LED means both compact and tube-style fluorescent lights, and LED lights.
- 76. **Remainder/Composite Household Hazardous** means household hazardous material that cannot be put in any other type. This type also includes household hazardous material that is mixed. Examples include household hazardous waste such as pesticides, caustic cleaners, sharps

(needles), medications, and nutritional supplements which, if improperly put in the solid waste stream, may present handling problems or other hazards.

## **Special Waste**

- 77. **Ash** means a residue from the combustion of any solid or liquid material. Examples include ash from fireplaces, incinerators, biomass facilities, wasteto-energy facilities, and barbecues. This type also includes ash and burned debris from structure fires.
- 78. **Treated Medical Waste** means medical waste that has been processed in order to change its physical, chemical, or biological character or composition, or to remove or reduce its harmful properties or characteristics, as defined in Section 25123.5 of the Health and Safety Code.
- 79. **Bulky Items** means large hard-to-handle items that are not defined elsewhere in the material types list, including furniture, mattresses, and other large items. Examples include all sizes and types of furniture, box springs, and base components.
- 80. **Tires** means vehicle tires. Tires may be pneumatic or solid. Examples include tires from trucks, automobiles, motorcycles, heavy equipment, lawn mowers, and bicycles.
- 81. **Remainder/Composite Special Waste** means special waste that cannot be put in any other type. Examples include asbestos-containing materials such as certain types of pipe insulation and floor tiles, auto fluff, auto bodies, trucks, trailers, truck cabs, untreated medical waste (such as tubes, oxygen masks, and medical instruments), and artificial fireplace logs.

#### **Mixed Residue**

82. **Mixed Residue** means material that cannot be put in any other type or category. This category includes mixed residue that cannot be further sorted. Examples include clumping kitty litter, cosmetics, partially filled containers of non-food consumer products, and residual material from a material recovery facility or other sorting process that cannot be put in any other material type, including remainder/composite types.

# *Material Type Examples* Other Film - Flexible Plastic Pouches



Remainder/Composite Paper - Rigid Food and Beverage Cartons



# **Recoverability Groups**

The 82 materials used for sorting are assigned to the five recoverability groups as shown in Table 95. The curbside recyclable list was based on research done by CalRecycle on materials listed as acceptable in local jurisdiction programs.

Curbside Recyclable	Other Recyclable	Recoverable Inerts		
Uncoated Corrugated Cardboard	Major Appliances	Concrete		
Paper Bags	Used Oil Filters	Asphalt Paving		
Newspaper	Other Ferrous	Asphalt Roofing		
White Ledger Paper	Other Non-Ferrous	Gypsum Board		
Other Office Paper	Computer-related Electronics	Rock, Soil and Fines		
Magazines and Catalogs	Other Small Consumer Electronics			
Phone Books and Directories	Video Display Devices - CRT	Other Materials		
Other Miscellaneous Paper - Other	Video Display Devices - Other	Remainder/Composite Paper - Rigid Food & Beverage Cartons		
Clear Glass Bottles and Containers - CRV	Plastic Grocery and Other Merchandise Bags	Remainder/Composite Paper - Other		
Clear Glass Bottles and Containers - Non-CRV	Non-Bag Commercial and Industrial Packaging Film	Flat Glass		
Green Glass Bottles and Containers - CRV	Durable Plastic Items - #2 and #5 Bulky Rigids	Remainder/Composite Glass		
Green Glass Bottles and Containers - Non-CRV	Textiles	Remainder/Composite Metal		
Brown Glass Bottles and Containers - CRV	Carpet	Brown Goods		
Brown Glass Bottles and Containers - Non-CRV	Paint	Plastic Trash Bags		
Other Colored Glass Bottles and Containers - CRV	Vehicle and Equipment Fluids	Film Products		
Other Colored Glass Bottles and Containers - Non-CRV	Used Oil	Other Film - Flexible Plastic Pouches		
Tin/Steel Cans - CRV Bimetal Containers	Batteries	Other Film - Other		
Tin/Steel Cans - Other	Tires	Durable Plastic Items - Other		
Aluminum Cans - CRV		Remainder/Composite Plastic		
Aluminum Cans - Non-CRV	Compost/Mulch	Remainder/Composite Organic		
PETE Containers - CRV	Other Miscellaneous Paper - Compostable	Other Wood Waste		
PETE Containers - Non-CRV	Remainder/Composite Paper - Compostable	Remainder/Composite Inerts and Other		
HDPE Containers - CRV	Food	Mercury-Containing Items - Not Lamps		
HDPE Containers - Non-CRV	Leaves and Grass	Lamps - Fluorescent and LED		
Miscellaneous Plastic Containers - CRV	Prunings and Trimmings	Remainder/Composite Household Hazardous		
Miscellaneous Plastic Containers - Non-CRV	Branches and Stumps	Ash		
	Manures	Treated Medical Waste		
	Clean Dimensional Lumber	Bulky Items		
	Clean Engineered Wood	Remainder/Composite Special Waste		
	Clean Pallets & Crates	Mixed Residue		

# Table 95. Recoverability Group Assignments

The 126 materials used in the Task 3 analysis are assigned to the five recoverability groups as shown in Table 96. The curbside recyclable list was based on research done by CalRecycle on materials listed as acceptable in local jurisdiction programs.

Curbside Recyclable	Other Recyclable	Recoverable Inerts		
Uncoated Corrugated Cardboard - Clean	Plastic Grocery and Other Merchandise Bags	Concrete		
Paper Bags - Clean	Non-Bag Commercial and Industrial Packaging Film	Asphalt Paving		
Newspaper - Clean	Durable Plastic Items - #2 and #5 Bulky Rigids	Asphalt Roofing		
White Ledger Paper - Clean	Major Appliances	Gypsum Board		
Other Office Paper - Clean	Used Oil Filters	Rock, Soil and Fines		
Magazines and Catalogs - Clean	Other Ferrous			
Phone Books and Directories - Clean	Other Non-Ferrous	Other Materials		
Other Miscellaneous Paper - Other - Clean	Textiles	Remainder/Composite Paper - Rigid Food & Beverage Cartons - Clean		
PETE Containers - CRV - Clean	Carpet	Remainder/Composite Paper - Rigid Food & Beverage Cartons - Bin Contaminated		
PETE Containers - Non-CRV - Clean	Computer-related Electronics	Remainder/Composite Paper - Rigid Food & Beverage Cartons - Source Contaminated		
HDPE Containers - CRV - Clean	Other Small Consumer Electronics	Remainder/Composite Paper - Other - Clean		
HDPE Containers - Non-CRV - Clean	Video Display Devices - CRT	Remainder/Composite Paper - Other - Bin Contaminated		
Miscellaneous Plastic Containers - CRV - Clean	Video Display Devices - Other	Remainder/Composite Paper - Other - Source Contaminated		
Miscellaneous Plastic Containers - Non-CRV - Clean	Paint	PETE Containers - CRV - Bin Contaminated		
Clear Glass Bottles and Containers - CRV	Vehicle and Equipment Fluids	PETE Containers - CRV - Source Contaminated		
Clear Glass Bottles and Containers - Non-CRV	Used Oil	PETE Containers - Non-CRV - Bin Contaminated		
Green Glass Bottles and Containers - CRV	Batteries	PETE Containers - Non-CRV - Source Contaminated		
Green Glass Bottles and Containers - Non-CRV	Tires	HDPE Containers - CRV - Bin Contaminated		
Brown Glass Bottles and Containers - CRV		HDPE Containers - CRV - Source Contaminated		
Brown Glass Bottles and Containers - Non-CRV	Compost/Mulch	HDPE Containers - Non-CRV - Bin Contaminated		
Other Colored Glass Bottles and Containers - CRV	Uncoated Corrugated Cardboard - Bin Contaminated	HDPE Containers - Non-CRV - Source Contaminated		
Other Colored Glass Bottles and Containers - Non-CRV	Uncoated Corrugated Cardboard - Source Contaminated	Miscellaneous Plastic Containers - CRV - Bin Contaminated		
Tin/Steel Cans - CRV Bimetal Containers - Clean	Paper Bags - Bin Contaminated	Miscellaneous Plastic Containers - CRV - Source Contaminated		
Tin/Steel Cans - Other - Clean	Paper Bags - Source Contaminated	Miscellaneous Plastic Containers - Non-CRV - Bin Contaminated		
Aluminum Cans - CRV - Clean	Newspaper - Bin Contaminated	Miscellaneous Plastic Containers - Non-CRV - Source Contaminated		
Aluminum Cans - Non-CRV - Clean	Newspaper - Source Contaminated	Plastic Trash Bags		
	White Ledger Paper - Bin Contaminated	Film Products		
	White Ledger Paper - Source Contaminated	Other Film - Flexible Plastic Pouches		
	Other Office Paper - Bin Contaminated	Other Film - Other		
	Other Office Paper - Source Contaminated	Durable Plastic Items - Other		
	Other Miscellaneous Paper - Compostable - Clean	Remainder/Composite Plastic		
	Other Miscellaneous Paper - Compostable - Bin Contaminated	Flat Glass		
	Other Miscellaneous Paper - Compostable - Source Contaminated	Remainder/Composite Glass		
	Other Miscellaneous Paper - Other - Bin Contaminated	Tin/Steel Cans - CRV Bimetal Containers - Bin Contaminated		
	Other Miscellaneous Paper - Other - Source Contaminated	Tin/Steel Cans - CRV Bimetal Containers - Source Contaminated		
	Remainder/Composite Paper - Compostable - Clean	Tin/Steel Cans - Other - Bin Contaminated		
	Remainder/Composite Paper - Compostable - Bin Contaminated	Tin/Steel Cans - Other - Source Contaminated		
	Remainder/Composite Paper - Compostable - Source Contaminated	Aluminum Cans - CRV - Bin Contaminated		
	Food	Aluminum Cans - CRV - Source Contaminated		
	Leaves and Grass	Aluminum Cans - Non-CRV - Bin Contaminated		
	Prunings and Trimmings	Aluminum Cans - Non-CRV - Source Contaminated		
	Branches and Stumps	Remainder/Composite Metal		
	Manures	Remainder/Composite Organic		
	Clean Dimensional Lumber	Other Wood Waste		
	Clean Pallets & Crates	Remainder/Composite Inerts and Other		
	Clean Engineered Wood	Brown Goods		
	Magazines and Catalogs - Bin Contaminated	Mercury-Containing Items - Not Lamps		
	Magazines and Catalogs - Source Contaminated	Lamps - Fluorescent and LED		
	Phone Books and Directories - Bin Contaminated	Remainder/Composite Household Hazardous		
	Phone Books and Directories - Source Contaminated	Ash		
		Treated Medical Waste		
		Bulky Items		
		Remainder/Composite Special Waste		
		Mixed Residue		

# Table 96. Recoverability Group Assignments for Task 3 Analysis

# **Contamination Subsort Definitions**

The contamination categories were defined as follows:

**Clean**. Material not soiled or contaminated in the bin that could reasonably be expected to be recycled in recycling programs targeting the material without special processing, cleaning, and/or repair. For example, a clean plastic soda bottle, dry office paper, or a clean, dry, and still folded newspaper.

**Bin-Contaminated**. Material that appears to have been contaminated after disposal. Typically these materials were contaminated with moisture or food, such as a newspaper wet from a leaked beverage, a plastic soda bottle covered with food on the outside, or a bottle or can covered in grass clippings.

#### Figure 75. Clean Materials



Figure 76. Bin-Contaminated Materials



## Source-Contaminated. Material

that appears to have been contaminated through use or prior to disposal. For example, cardboard with a lot of tape, newspaper covered with paint used for masking, newspaper used to wrap fish, paper plates with food residue, or peanut butter jars with residue. Figure 77. Source-Contaminated Materials



# Material Groupings for Task 3 Analysis

Table 97 lists the standard recoverable materials for the Task 3 analysis. Materials marked with an X were considered recovered for the purposes of the analysis.

	Curbside Recycle Bins		Curbside Organics Bins			
		Bin	Source		Bin	Source
	Clean	Contaminated	Contaminated	Clean	Contaminated	Contaminated
Uncoated Corrugated Cardboard	Х			Х	Х	Х
Paper Bags	Х			Х	Х	Х
Newspaper	Х			Х	Х	Х
White Ledger Paper	Х			Х	Х	Х
Other Office Paper	Х			Х	Х	Х
Magazines and Catalogs	Х			Х	Х	Х
Phone Books and Directories	Х			Х	Х	Х
Other Miscellaneous Paper - Compostable				Х	Х	Х
Other Miscellaneous Paper - Other	Х			Х	Х	Х
Remainder/Composite Paper - Compostable				Х	Х	Х
Clear Glass Bottles and Containers - CRV	Х					
Clear Glass Bottles and Containers - Non-CRV	Х					
Green Glass Bottles and Containers - CRV	Х					
Green Glass Bottles and Containers - Non-CRV	Х					
Brown Glass Bottles and Containers - CRV	Х					
Brown Glass Bottles and Containers - Non-CRV	Х					
Other Colored Glass Bottles and Containers - CRV	Х					
Other Colored Glass Bottles and Containers - Non-CRV	Х					
Tin/Steel Cans - CRV Bimetal Containers	Х					
Tin/Steel Cans - Other	Х					
Aluminum Cans - CRV	Х					
Aluminum Cans - Non-CRV	Х					
PETE Containers - CRV	Х					
PETE Containers - Non-CRV	Х					
HDPE Containers - CRV	Х					
HDPE Containers - Non-CRV	Х					
Miscellaneous Plastic Containers - CRV	Х					
Miscellaneous Plastic Containers - Non-CRV	Х					
Food				Х	Х	Х
Leaves and Grass				Х	Х	Х
Prunings and Trimmings				Х	Х	Х

## Table 97. Standard Recoverable Materials for Task 3 Analysis

Materials marked with an X are considered recovered for the purposes of the analysis.

# **Appendix C: Description of Calculations**

This appendix details the calculations used to calculate the composition and quantity data. The quantity and composition data were calculated at the statewide level for each waste stream within a group and for the statewide overall commercial waste stream. The calculations were performed the same for the disposed, curbside recycle and curbside organics waste streams as well as other diversion materials collected in bins, roll offs, compactors, or carts. This section includes a special note regarding the calculation for materials not collected in bins, roll offs, compactors, or carts; a note for sites with mixed-waste processing, and a note for the T3 calculations.

# Calculating the Waste Stream Quantities

# **Industry Group Quantities**

Annual tonnage for each industry group was estimated based on actual measurement of the amount of material at a generator site shortly before the regular pick-up by the hauler. The procedure for measuring and calculating disposal or diversion per employee for a typical site in each industry group is described below. Figure 78 following the explanation provides a graphical illustration of this process. The following steps describe the disposed waste quantification process; however, diversion quantities for materials placed in bins were calculated using the same process. Materials diverted apart from the bins were also included in the total diversion calculations for each industry group.

- 1. **Disposed Waste Volume Measurements**: The field crew recorded the length, width, and height to the nearest inch for all disposed waste at each site. The volume of the disposed waste at each site was the sum of all volumes for each waste container (if there was more than one container on-site), in cubic inches. In calculations this quantity was noted as V<sub>0</sub>.
- 2. Disposed Waste Accumulation Time: During initial recruitment screening calls, recruiters asked the responsible party at the site for information to determine waste accumulation time, including: the business operating hours, the time the waste containers were last collected by the hauler (or regular collection schedule), and when trash was regularly taken outside to dumpsters. While onsite, the field crew verified the critical information. This information was used to calculate (1) the hours of accumulation for the observed disposed waste volume (A<sub>O</sub>) and (2) the total hours of disposed waste accumulation time per year (A<sub>A</sub>). These two numbers were used to calculate the *percent of the annual waste generation* (A<sub>P</sub>) that was observed during the measurement.

For a site with the following waste information:

Hours waste was generated: 9 a.m. to 5 p.m., Monday through Saturday Waste was transported to dumpsters: Continuously Waste was collected: Monday before 9 a.m. Day and time of accumulation measurement: Friday, 3 p.m. The following is an example of the hours of accumulation for the observed disposed waste volume calculation:

Ao = 8 hrs Monday + 8 hrs Tuesday + 8 hrs Wednesday + 8 hrs Thursday + 6 hrs Friday Ao = 38 hrs

The following is an example of the total hours of disposed waste accumulation time per year calculation:

 $A_{\text{A}}$  = 8 hrs per day x 6 days per week x 52 weeks per year  $A_{\text{A}}$  = 2,496 hrs

Thus, the *percent of the annual waste generation* that was observed during the measurement is:

 $A_P = A_0/A_A$ 

 $A_P = 38 \text{ hrs}/2,496 \text{ hrs}$ 

 $A_{P} = 1.52\%$ 

3. Annual Disposed Waste Volume: The volume of the disposed waste (calculated in step 1) was divided by the percent of the annual waste generation (calculated in step 2) during the observed period to determine the annual disposed waste volume (V<sub>A</sub>). This was calculated in cubic yards per year for each site. The following is an example for a site with a Vo of 46,000in<sup>3</sup>. Note: 1 cubic yard = 46,656 in<sup>3</sup>.

 $V_{O} = 46,000 \text{ in}^{3}/46,656 \text{in}^{3}/\text{yd}^{3} = 0.99 \text{ yd}^{3}$  $V_{A} = V_{O}/A_{P}$  $V_{A} = 0.99 \text{ yd}^{3}/A_{P}$  $V_{A} = 0.99 \text{ yd}^{3}/0.0152$  $V_{A} = 64.9 \text{ yd}^{3}$ 

To confirm the accuracy of the measurements, the calculated *annual disposed waste volume* was compared to the volume estimated by multiplying the container size by the number of annual collections. When the *annual disposed waste volume* based on research measurements was more than 150 percent of the volume based on the container size and collection frequency, the estimate based on measurements was replaced with the estimated volume based on the container size and collection frequency.

4. **Reported Disposed Waste Tons**: When a site uses a compactor for its disposed waste, the recruiters determined the annual tonnage at a site by (1) asking the person responsible for the data at the site or (2) using hauler records.

Tonnage data were obtained in tons per time period. In these cases, the tonnage data were used instead of the volume estimates.

- 5. Volume of Sample: The volume of a sample was measured in one of three ways:
  - a. Measurements of waste in the dumpster taken before and after removing waste for a sample to calculate volume of removed waste.
  - b. When accessing the container was not possible, as was the case with compactors, volume measurements were recorded in gallons based on the amount of material that was deposited in the containers used to transport the disposed waste sample from the site to the sorting facility.
  - c. If neither of the methods described above were possible, the researchers measured the volume of the sample after it was dumped on the sorting floor.

All *sample volume* measurements were converted into cubic yards. Samples and *sample volume* measurements were collected for all identified disposed waste substreams at a given site.

- 6. Weight of Sample: The *sample weight* was calculated as the sum of all the sorted components.
- 7. Average Density of Disposed Waste per site: The average disposed waste density per site was calculated for each site by dividing the sum of all sample weights for a given site by the sum of all sample volumes for that site.

Average Density 
$$_{g} = \frac{\sum_{i} w_{i,g}}{\sum_{i} v_{i,g}}$$

where:

*g* represents a given site *i* denotes each individual sample  $w_{i,g}$  represents the weight of sample *i* at site *g*  $v_{i,g}$  represents the volume of sample *i* at site *g* 

8. Annual Disposed Waste Quantity: The average disposed waste density per site was used to convert annual disposed waste volume measurements for each site into annual tons.

For sites with multiple disposed waste substreams, each substream was measured separately, then added together to calculate a total *annual disposed waste quantity* for each site.

9. Average Density of Disposed Waste per Industry Group: The group density was calculated for small sites and large sites separately. The *average disposed* 

waste density was calculated for each industry group by dividing the sum of all annual disposed waste quantities at all small sites for a given industry group by the sum of all annual disposed waste volumes at all small sites for that industry group.

Average Density 
$$_{g} = \frac{\sum_{i} w_{i,g}}{\sum_{i} v_{i,g}}$$

where:

g represents a given industry group *i* denotes each individual site

 $w_{i,g}$  represents the annual quantity of disposed waste at site *i* in group *g*  $v_{i,g}$  represents the annual volume of disposed waste at site *i* in group *g* 

The same calculation was repeated for the large sites. The overall group density was the weighted average of the small and large densities, weighted by the group's statewide employment at small sites and at large sites.

10. **Tons per Employee per Year**: Information was gathered from each site regarding the number of employees, expressed as Full Time Equivalents (FTEs). The *annual disposed waste quantity* for each site was divided by the FTE figure for that site to calculate a tons per employee per year (TPEPY) figure for each site. The group TPEPY was calculated for small sites and large sites separately. The sum of the *annual disposed waste quantity* for all small sites in a group was divided by the sum of the FTEs for all small sites in that group to generate the small sites TPEPY for that industry group. The same calculation was performed for large sites. The overall group TPEPY was the weighted average of the small and large TPEPY, weighted by the group's statewide employment at small sites and at large sites. TPEPY was the primary method used to calculate annual tons for all sites and groups except multi-family. Multi-family annual tons was calculated on a *tons per unit per year* basis.

For the following groups, disposal was also correlated with the noted factors. The number of sites used in the correlative factor calculations for each of these groups is note in Table 98.

All Groups: actual employment instead of FTEs Group 1: number of annual visitors Group 3: number of staff, number of students, and number of school days Group 4: numbers of rooms Group 8: number of beds Group 13 and Group 14: per thousand square feet of building space.

		Number of Sites Included in Correlative Calcs	
Industry Group	Correlative Units	Disposed	Diverted
Arts, Entertainment, & Recreation	Tons per 1,000 Visitors per Year	39	21
Education	Tons per 100 Students per Year	40	21
Hotels & Lodging	Tons per Guest Room per Year	46	26
Hospital, Nursing, & Residential Care Facilities	Tons per Bed per Year	28	15
Services - Management, Administrative, Support, & Social	Tons per 1,000 Sq. Ft. per Year	50	44
Services - Professional, Technical, & Financial	Tons per 1,000 Sq. Ft. per Year	40	40

## Table 98. Sites Used in Additional Correlatives Calculations

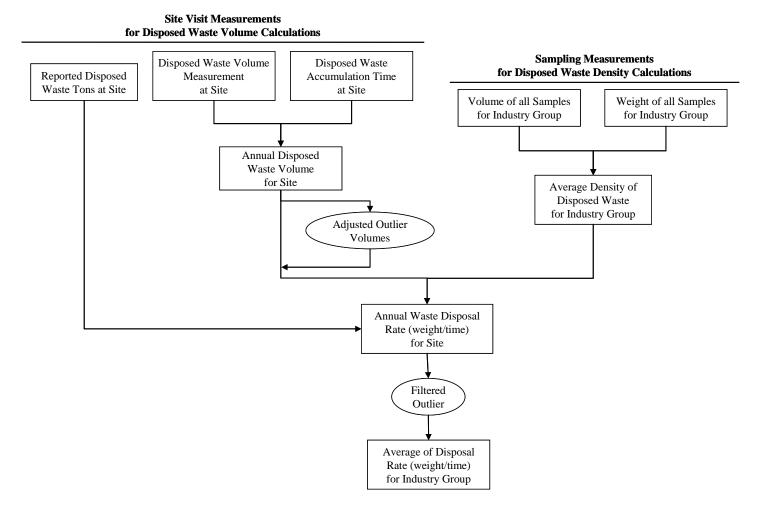
Sites selected for Task 4 with zero diversion were included in the quantity calculations. Their quantity was calculated as zero tons, but their employment was included in step nine of the quantification calculation.

The study also calculated a yards per employee per year (YPEPY) figure for each group. The YPEPY skips steps 4-9 in the above calculation, it is simply the sum of the *annual disposed waste volume* for all small sites in a group was divided by the sum of the FTEs for all small sites in that group. The same calculation was performed for the large sites. The overall group YPEPY was the weighted average of the small and large YPEPY, weighted by the group's statewide employment at small sites and at large sites.

Because not every generator site was able to provide complete annual quantity and volume data, the generator sites included in the TPEPY calculations are slightly different than the sites included in the YPEPY calculations, which are again slightly different than the sites used in the density calculations. For this reason, trying to use any two of those metrics to calculate the third will results in a slightly different figure than those published in this report.

The material quantification process is summarized in Figure 78.

# Figure 78. Material Quantification Process



# **Statewide Commercial Sector Overall Quantities**

The statewide commercial sector overall TPEPY was calculated by aggregating the annual tons associated with each group and dividing by the total number of employees statewide. The following list describes the calculations for the disposed waste stream but the same process was followed for any waste stream (disposal, curbside recycle, etc.).

- 1. Multiply the group-specific TPEPY (calculated in step 10 of the previous list) by the total number of employees statewide in that group (from Table 80) to calculate the annual disposal for the group.
- 2. Sum the annual statewide disposal for all groups to calculate the statewide commercial sector overall disposal.
- Divide the statewide commercial sector overall disposal by the total number of employees statewide to calculate the statewide commercial sector overall TPEPY.

 $\frac{\sum_{i} (TPEPY_i * Employment_i)}{Employment_{state}}$ 

for i = 1 to n, where n = number of industry groups

# **Special Note for Non-Containerized Collection**

We anticipated that some diverted materials, such as pallets, toner cartridges, food and furniture donations, and other items not collected in bins, roll-offs, compactors, or carts could not be readily quantified using the above method. These materials were frequently diverted through non-curbside programs such as self-hauling, back-hauling, and informal collection networks. For these situations the field crew quantified these materials using whatever means were appropriate for the situation including:

- Annual records indicating the amount diverted in tons.
- Using direct weights instead of volumes for most pure streams (sourceseparated items such as pallets, toner cartridges, bales of cardboard). For example, the field crew visited a business open seven days per week that had six pallets on-site that accumulated over six days and weighed 180 pounds in total. The field crew estimated that the business diverts 365 pallets in one year at 30 pounds per pallet for a total of 5.5 tons per year.
- Estimates from staff at the site. Often non-curbside materials were collected on variable schedules so the field crew relied on accumulation time ("this material has been here about six weeks") and collection schedule ("we get this picked up about every three months") estimates from the staff.

Annual quantity estimates of non-curbside materials were scaled to TPEPYs using the same calculation as other disposed and diverted materials (detailed in step 10, above).

# Special Note for Sites with Mixed-Waste Processing

The analysis made special considerations for sites where the disposed material is sent to a mixed-waste processor (MWP). For any particular site with a MWP, the composition of the disposed stream samples at that site were adjusted to reflect the sorting efficiency and sorted commodities at the MWP where that site's materials are tipped. When MWP-specific performance data was not available, industry averages and professional opinions were applied. The materials expected to be diverted at the MWP from that site are included in the other diversion stream from that site.

For example, say disposal at business A is 50 percent *newspaper* and 50 percent *food*, and the local MWP captures 100 percent of the inbound *newspaper* and 0.0 percent of the inbound *food*. In that case, the site's disposed sample composition would be adjusted to reflect the diversion of the *newspaper*. The new disposed sample composition would be 100 percent *food*, and the annual disposal quantity would be reduced likewise. In the same manner, the annual other diversion quantities would be increased to reflect the diverted *newspaper* and the other diversion composition adjusted accordingly.

# Calculating the Waste Stream Compositions

This section describes the general calculation approach that was used when producing the following:

- estimated composition on a mean percentage basis
- estimated composition on a weighted average percentage basis

Details of the calculation method varied slightly among the industry groups studied, since there were inevitably irregularities and unexpected situations reflected in the data. The following descriptions reference the disposed waste; however, the diversion composition was calculated using the same process.

# **Industry Group Composition**

# Mean Percent Estimates

For a given industry group, the composition estimate denoted by  $r_j$  represents the ratio of the material's weight to the total weight of all the samples in the stratum. It was derived by summing each material's weight across all of the selected samples belonging to a given industry group and dividing by the sum of the total weight of waste for all of the samples from that industry group, as shown in the following equation:

$$r_j = \frac{\sum_i c_{ij}}{\sum_i w_i}$$

where:

c = weight of particular material w = sum of all material weights for i = 1 to n, where n = number of selected samples for j = 1 to m, where m = number of materials The confidence interval for this estimate was derived in two steps. First, the variance around the estimate was calculated, accounting for the fact that the ratio included two random variables (the material and total sample weights). The variance of the ratio estimator equation follows:

$$\operatorname{Var}(r_j) \approx \left(\frac{1}{n}\right) \left(\frac{1}{\overline{w}^2}\right) \left(\frac{\sum (c_{ij} - r_j w_i)^2}{n-1}\right)^*$$

 $\overline{w} = \frac{\sum_{i} w_i}{\sum_{i} w_i}$ 

where:

Second, the confidence interval at the 90 percent confidence level was calculated for a material's mean as follows:

$$r_j \pm \left(z \sqrt{\operatorname{Var}(r_j)}\right)$$

where z = the value of the z-statistic (1.645) corresponding to a 90 percent confidence level.

#### Weighted Averages

For all groups, data was gathered from subgroups defined by the size of the businesses. These groups and subgroups are described in Table 81. In addition, the Medical & Health group was divided into two NAICS-defined subgroups. The estimated annual tons corresponding to each subgroup was used as weighting factors.

In the equation below,  $O_j$  represents the mean percent estimate for material *j* in the waste disposed by an industry group that was made up of multiple subgroups, which are numbered 1, 2, 3, etc. The relative weighting factors for each subgroup, expressed as percentages of the entire annual tonnage for the industry group statewide, are represented by the variables p<sub>1</sub>, p<sub>2</sub>, p<sub>3</sub>, etc. The mean estimate of the percent of the disposed waste stream corresponding to the material *j* for each subgroup was represented by the variables r<sub>j1</sub>, r<sub>j2</sub>, r<sub>j3</sub>, etc.

$$O_{j} = (p_{1} * r_{j1}) + (p_{2} * r_{j2}) + (p_{3} * r_{j3}) + \dots$$

where:

 $O_j$  = the mean percent estimate for material *j* in the waste disposed by the noted group

p = the proportion of annual tons contributed by the noted size groups r = ratio of material weight to total waste weight in the noted size groups for j = 1 to m, where m = number of materials

For example, business locations belonging to a particular industry group might be identified as having two size categories, with the "small" locations corresponding to 100,000 tons, and the "large" locations including 150,000 tons. From the waste sampling data, the percentage of cardboard in the disposed waste may be different for the two size categories: 6 percent at the small locations and 2 percent at the large locations. The weighted combination of the composition findings would be performed as follows:

Proportion of tons from small establishments:

$$p_{\rm small} = \frac{100,000}{100,000 + 150,000} = 0.4$$

Proportion of tons from large establishments:

$$p_{\text{large}} = \frac{150,000}{100,000 + 150,000} = 0.6$$

Overall percentage calculation for cardboard at both types of establishments:

$$O_{\text{cardboard}} = (0.4 \times 6\%) + (0.6 \times 2\%) = 3.6\%$$

The variance of the weighted average was calculated:

$$VarO_{j} = (p_{1}^{2} * \hat{V}_{r_{j1}}) + (p_{2}^{2} * \hat{V}_{r_{j2}}) + (p_{3}^{2} * \hat{V}_{r_{j3}}) + \dots$$

where:

 $\hat{V}_{r_j}$  = the variance of the composition estimate for the material in the indicated size group

## Addressing Sites with Multiple Substreams

For sites where a particular waste stream (disposals, curbside recycle, etc.) was composed of multiple substreams, data from the multiple substream samples were combined using a weighted calculation process to create a composite sample that reflects the composition of all substreams at the site. The example below indicates how this was done for a site with multiple <u>disposal</u> substreams; however, the calculation was the same regardless of the waste stream. This method was particularly useful for the Other Diversion stream, which was frequently composed of many substreams (ink toner, self-haul of CRV containers, furniture donations, etc.).

In the formula below,  $O_j$  represents the mean percent estimate for material *j* in the waste disposed by a site that was made up of multiple substreams, which are numbered 1, 2, 3, etc. The relative weighting factors for each substream, expressed as percentages of annual tonnage at the site, are represented by the variables  $p_1$ ,  $p_2$ ,  $p_3$ , etc. The mean estimate of the percent of the disposed waste stream corresponding to the material *j* for each substream was represented by the variables  $r_{j1}$ ,  $r_{j2}$ ,  $r_{j3}$ , etc.

$$O_{j} = (p_{1} * r_{j1}) + (p_{2} * r_{j2}) + (p_{3} * r_{j3}) + \dots$$

where:

 $O_j$  = the mean percent estimate for material *j* in the waste disposed at the site

p = the proportion of tonnage contributed by the noted substream r = ratio of material weight to total waste weight in the noted substream for j = 1 to m, where m = number of materials

The composite sample was based on a weighted average of the composition from each substream as in the example hotel with two substreams below. Figure 79 illustrates the waste substreams at the hotel.

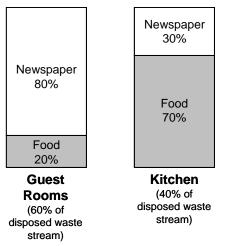


Figure 79. Example Scenario for Addressing Sites with Multiple Substreams

The first substream was the guest rooms waste representing 60 percent of all of the hotel's disposed waste, and the second substream was the kitchen waste substream representing the other 40 percent of waste disposed at the hotel. The weighted combination of the composition findings was performed as follows:

Proportion of tons from guest rooms: 60 percent Proportion of tons from kitchens: 40 percent Overall percentage calculation for newspaper at the site:

 $O_{newspaper} = (0.6 * 80\%) + (0.4 * 30\%) = 60\%$ 

The resulting sets of material composition percentages were used to construct a "composite sample" for the entire hotel. To keep the composite sample in proportion to other samples in the data set, the composite sample was set to equal the average weight of the actual waste samples obtained and sorted from the specific site.

In the hotel example, if the actual guest room waste sample weighs 250 pounds, and the actual kitchen waste sample weighs 230 pounds, then the material weights in the calculated composite sample totaled the average of those two figures, or 240 pounds. This average weight was then multiplied by the composite sample material percentages to calculate a new set of sample weights for the composition analysis (described above). The material weight for newspaper in the composite sample was 60 percent of 240 pounds, or 144 pounds.

# Statewide Commercial Sector Overall Composition

The statewide commercial sector overall composition was the weighted average of the individual group and subgroup compositions. Annual tons in each group and subgroup statewide were used as the weighting factors. The calculation was completed as follows:

$$O_{j} = (p_{1} * r_{j1}) + (p_{2} * r_{j2}) + (p_{3} * r_{j3}) + \dots$$

where:

 $O_j$  = the mean percent estimate for material *j* in the waste disposed statewide

p = the proportion of tons contributed by the noted subgroup r = ratio of material weight to total waste weight in the noted subgroup for j = 1 to m, where m = number of materials

The variance of the weighted average was calculated:

$$VarO_{j} = (p_{1}^{2} * \hat{V}_{r_{j1}}) + (p_{2}^{2} * \hat{V}_{r_{j2}}) + (p_{3}^{2} * \hat{V}_{r_{j3}}) + \dots$$

where:

 $\hat{V}_{r_j}$  = the variance of the composition estimate for the material *j* in the disposed waste statewide.

# **Calculating Waste Generation**

Total waste generation was the sum of all disposal and diversion activities. It was calculated at the group level and for the commercial sector statewide.

## **Industry Group Generation**

#### **Quantity Calculations**

The generation for an individual group was the sum of that group's statewide disposal and diversion. The calculation was completed as follows:

$$G_i = T_{Di} + T_{CRi} + T_{COi} + T_{ODi}$$

Where:

 $G_j$  = Statewide generation for material *j*   $T_D$  = Statewide disposed tons for material *j*   $T_{CR}$  = Statewide curbside recycle tons for material *j*   $T_{CO}$  = Statewide curbside organics tons for material *j*   $T_{OD}$  = Statewide other diversion tons for material *j* for *j* = 1 to *m*, where *m* = number of materials

## Mean Percent Estimates

For a given industry group, the composition estimate denoted by  $r_{ij}$  represented the ratio of the material's generation to the total generation in the industry group. It was derived by calculating the statewide generation for a particular material in a given industry group  $(G_{ij})$  and dividing by the total generation for all materials in that industry group, as shown in the following equation:

$$r_j = \frac{G_j}{G_w}$$

where:

 $r_j$  = the proportion of annual generation for material *j* in group *i*   $G_j$  = Annual generation for material *j* in group *i*   $G_w$  = sum of all material weights in group *i* for *j* = 1 to *m*, where *m* = number of materials

# **Statewide Commercial Sector Overall Generation**

## **Quantity Calculations**

The statewide commercial sector overall generation was the sum of disposal and diversion from all groups statewide. The calculation was completed as follows:

$$G_{ij} = T_{Dij} + T_{CRij} + T_{COij} + T_{ODij}$$

Where:

G = Statewide generation for material j  $T_D$  = Statewide disposed tons for material j  $T_{CR}$  = Statewide curbside recycle tons for material j  $T_{CO}$  = Statewide curbside organics tons for material j  $T_{OD}$  = Statewide other diversion tons for material jfor j = 1 to m, where m = number of materials for i = 1 to n, where n = number of industry groups

## Mean Percent Estimates

Statewide, the composition estimate denoted by  $r_{ij}$  represents the ratio of the material's statewide commercial sector overall generation to the total statewide commercial sector generation. It was derived by calculating the statewide generation for a particular material across all industry groups ( $G_{ij}$ ) and dividing by the total generation for all materials statewide, as shown in the following equation:

$$r_{ij} = \frac{G_{ij}}{G_{iw}}$$

where:

 $r_{ij}$  = the proportion of annual generation for material j $G_{ij}$  = Annual generation for material j $G_{iw}$  = sum of all material weights in group ifor j = 1 to m, where m = number of materials for i = 1 to n, where n = number of industry groups

# Special Note for Task 3 Analysis

The quantity and rate calculations for Task 3 were completed slightly differently than for the other tasks in this study. The Task 3 analysis required calculating for each industry group and multi-family:

- 1. The quantity of material diverted through curbside programs,
- 2. The quantity of material disposed from businesses and multi-family with a <u>curbside diversion container</u>,
- 3. The composition of material diverted through curbside programs,
- 4. The composition of material disposed from businesses and multi-family with a <u>curbside diversion container</u>,
- 5. The proportion of clean and contaminated standard recoverable materials in the curbside diversion containers, and
- 6. The proportion of clean and contaminated standard recoverable materials in the disposal containers.

Items one and three were calculated as part of Task 4.

Item four was calculated by completing a composition analysis of the disposed waste including only the sites with curbside diversion in the composition calculations. This composition was completed following the process spelled out in Calculating the Waste Stream Compositions section of this appendix.

Items five and six were calculated using the information collected during the contamination subsorts at sites selected for the Task 3 analysis. Once the disposed and curbside diversion compositions were calculated, the clean and contaminated proportions calculated from the contamination subsorts were applied to the composition estimates. For example:

lf:

based on the curbside recycling sampling, *newspaper* was 12 percent of the medical & health curbside recycling stream

and if:

based on the contamination subsorts, the field crew determined that 50 percent of the *newspaper* in the medical & health sites' recycling bin was clean and 50 percent was source-contaminated

Then

6 percent of the medical health curbside recycling stream was clean *newspaper* and 6 percent was source contaminated *newspaper*.

For businesses, item two was calculated using the following steps:

- The curbside recycling and curbside organics TPEPYs were calculated <u>using</u> <u>only the sites with curbside diversion containers</u> following the calculations spelled out in the Calculating the Waste Stream Quantities section of this appendix. The TPEPYs calculated in this step were greater than the TPEPYs calculated in Task 4 because the annual curbside diversion quantities remain constant (since by definition the total quantity of curbside diversion was diverted from businesses with curbside diversion) but the number of employees has been reduced (since this analysis excludes employees at sites without curbside diversion that were included in the Task 4 analysis).
- 2. The statewide curbside diversion tons were then divided by the curbside diversion TPEPY at sites with curbside diversion to estimate the number of employees statewide with curbside diversion.
- 3. The disposed TPEPY was calculated <u>using only the sites with curbside diversion</u> <u>containers</u> following the calculations spelled out in the Calculating the Waste Stream Quantities section of this appendix. The TPEPYs calculated in this step were expected to be lower than the TPEPYs calculated in Task 2 because presumably sites with curbside diversion containers put less material in their disposal containers than sites without curbside diversion containers.
- 4. The statewide annual disposed waste quantity from sites with curbside diversion was calculated by multiplying the number of employees calculated in step two by the special disposed TPEPY calculated in step three.

For multi-family, item two was calculated using the following steps:

- 1. The number of multi-family units statewide with curbside diversion was estimated by applying the proportion of units recruited with curbside diversion to the total number of units statewide.
- 2. The disposed TPUPY (tons per unit per year) was calculated <u>using only the sites</u> with curbside diversion containers following the calculations spelled out in the Calculating the Waste Stream Quantities section of this appendix. The TPUPYs calculated in this step were expected to be lower than the TPUPYs calculated in Task 2 because presumably multi-family sites with curbside diversion containers put less material in their disposal containers than multi-family sites without curbside diversion containers.
- 3. The statewide annual disposed waste quantity from multi-family sites with curbside diversion was calculated by multiplying the number of units calculated in step one by the special disposed TPUPY calculated in step two.

This process was repeated until for each industry group and multi-family we had:

- 1. The quantity of material diverted through curbside programs,
- 2. The quantity of material disposed from sites with a curbside diversion container,
- 3. The composition of material, including contamination levels, diverted through curbside programs, and
- 4. The composition of material, including contamination levels, disposed from sites with a curbside diversion container.

This data allowed us to calculate the quantities and composition from sites with curbside diversion for the overall commercial sector following the calculations spelled out in the Statewide Commercial Sector Overall Quantities and Statewide Commercial Sector Overall Composition sections of this appendix.

# **Appendix D: Field Forms**

# Node Recruitment

This section includes the forms used to recruit the nodes.

### **Node Recruitment Script**

### Task 2 Recruitment Script

#### Generator Waste Characterization Study

Hello, my name is \_\_\_\_\_ and I am calling from CalRecycle regarding the statewide waste characterization study we're carrying out next year.

Could I please speak to the operations or facility manager about helping us out with this study?

#### [once the correct person is on the phone]

The reason I am calling you today is to ask for your assistance with this year's study.

[if we've sampled at this facility previously, mention that this will be less intrusive than the work we did in \_\_\_\_\_]

Part of the study involves collecting samples of waste directly from the dumpster at businesses within a 30 mile radius of your facility. What we are asking from you is:

- The use of your facility as a place we can bring these samples to sort and then dispose of when finished.
- We anticipate collecting samples of MSW from up to 100 businesses in your region and each sample will weigh approximately 200 lbs. (a maximum of 10 tons).
- The waste we will be bringing in is normal MSW collected directly from dumpsters of these
  area businesses— the same material that collection trucks would be collecting and disposing.
- We don't anticipate needing much assistance from your staff—our professional sorting crew
  has logged thousands of hours at landfills and transfer stations around the country— our only
  real requirement is that you provide us with a safe space large enough to allow our professional
  4 person crew to stage and sort these samples. Something approximating 20 feet X 40 feet
  would suffice. Spaces used for this work have included unused commercial or self-haul tipping
  lanes or any other space that is out of your way and harm's way. A covered area would be nice
  but is not required.
- If the sorting crew is setup where they can dispose the material as they go (directly into the pit
  or onto the ground), they will. If they are set up where that isn't an option, you will need to
  provide a container for them to dump sorted material into which you can empty as needed.
- We may need to work at your facility for up to 15 days.
- Access to a restroom would also be required.

If this sounds like something you could assist us with, then I some additional site and contact information questions that may take about 10 minutes to answer.

If Yes, proceed to the Task 2 Facility Data Collection Sheet

#### **Node Recruitment Form**

Task 2 Facility D	Data SheetGenerator Study
Name of site:	
SCHEDULE	
Season recruited for sampling.	February
	April
	July
	October
	Name of site:

[We are still finalizing the annual schedule and will contact you with specific date requests as soon as possible.]

Are there any dates that definitely will not work for you?

## 2. FACILITY CONTACT INFORMATION

Please circle or note the best way of contacting each person-phone, email, text, etc.

Physical address: City, Zip:

Site owner/operator (company name or public agency name):

Person approving use of the site: Mailing address: City, Zip: Phone: Email:

Person with data about the site (if different):
Phone: Email:
Fax:

On-site manager or supervisor (primary contact for logistics):
Phone: Email:
Will this person be available on the indicated dates?

Contact person for crew when they arrive the morning of sampling: Phone: Email:

1

Backup contact:		
Phone:	Email:	
Health and Safety M	Aanager (if applicable)	
Phone:	Email:	
Risk Management C	Contact (where should we send our proof of insurance	:e?)
Phone:	Email:	

### 3. SITE INFORMATION

Facility's hours of operation:

M	5.2
Т	
W	
Th	
F	
Sat	
Sun	

Hours we would be allowed to work, if different from hours of operation \_\_\_\_\_

Do you close early if you have reached your allowed daily tonnage amount? Yes No

Estimate how many times per month this happens. \_\_\_\_/month

Are there site conditions we need to be aware of such as high winds, snakes or other animals, or other special circumstances?

If you do have inclement weather that impacts operations, is there a secondary location where the crew can carry out their work?

Would it be possible for the sorting crew to be there when the site is closed, for example after hours or on weekends if needed?

### 4. SAMPLING AND SORTING PROCEDURES

We will be bringing MSW into the facility from local businesses. These businesses may or may not be part of the routes you are contracted to handle. Could we bring this material in free of charge as part of our study or should we plan on paying a tipping fee for it? What fee should we anticipate paying? \_\_\_\_\_\_\$/ton.

We need an area for the sorting crew to work in for the entire time we will be at the site. It should be about the size of two truck bays (20 x 40). Can the site accommodate this? Where do you think that will be?

Is this space covered or will it be open to the elements? If open to the elements (landfill, etc.), could a temporary "pad" be installed (gravel, mulch, etc.) to make the workplace <u>safter</u> for the crew?

Is there a place to store our trailer with our sorting equipment and covered samples overnight?

Our crew will have up to date safety gear—hardhats, safety vests, coveralls, boots, and gloves—plus will cover a daily safety training plan. Is there any other PPE or special procedures you want them to use?

### 5. FINAL LOGISTICS

Any other issues or special circumstances we need to be aware of?

We will send you a copy of our insurance policy. Is there anything else you need from us?

Please remember to notify gate personnel of the dates we will be visiting your facility.

Cal Recycle may wish to visit the facility to observe the field procedures, would this be ok? If so, who should we coordinate this visit with?

We will provide a one month and a one week reminder of our visit. We will use these reminders to finalize and verify sampling and sorting logistics and dates. Would you like any other reminders?

If we have further questions, someone from the project team (CalRecycle, Cascadia Consulting Group, or Sky Valley Associates) will contact you.

## Letter to Haulers Operating in Node Areas

California Environmental Protection Agency

Edmund G. Brown Jr., Governor

## DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY

1001 | Street, Sacramento, California 95814 • www.CalRecycle.ca.gov • (916) 322-4027 P.O. Box 4025, Sacramento, California 95812

«Date»

CalRecvcle

«Hauler» «Street» «City», «State» «ZIP»

Attn: «Contact»

RE: Statewide Waste Disposal Characterization Study

Dear Hauler/Recycler:

As we have done in the past, the California Department of Resources Recycling and Recovery (CalRecycle) is conducting a major data collection effort in 2014 to characterize California's waste stream. This study will enable us to update and expand our Waste Characterization Database as it relates to several disposal sectors, as well as evaluate the effect the Mandatory Commercial Recycling law (AB 341) has had on reducing recyclables in the disposed waste stream. The database could not have been successfully developed without the cooperation and expertise of private sector haulers and facility operators. Such is the case today as we move forward with our efforts to update the database and improve its usefulness.

CalRecycle would greatly appreciate your support in performing this Statewide Waste Characterization Study, as some of your customers have been asked to participate. Field work will begin the week of «Start\_Date».

A major part of the study involves sampling and characterizing trash and recyclables collected directly at generator (business) sites. Businesses throughout the state will be randomly selected and asked to participate in the generator-based study. A total of 800 businesses will be included in the study, and all 800 businesses will be sampled for trash. A total of 400 of these businesses will be randomly selected to be sampled for recycling as well.

- The trash samples will be collected from dumpsters and transported to a central site where they will be weighed and sorted, then disposed. The crew will manage materials and abide by any operational and health and safety protocols required by the facility.
- For recyclables, only materials placed in recycling bins will be sampled and sorted. The sorting will take place at the business site, and materials will be returned to the recycling bins.

Our contractor will be doing all the sample collecting, so your involvement is not needed for that part of the study. However, cooperation that may be needed from haulers and recyclers includes providing information on the service provided to the business – numbers and size of bins, frequency of pickup, pickup days, getting access to locked, bins, etc. Project staff will ask each business to identify its hauler and recycler when the business is contacted to participate in the study, so that project staff can contact the hauler if needed to get the necessary information. Please note that any information you provide will be kept strictly confidential and will be for obtaining waste characterization data only.

Cascadia Consulting Group is the main contractor for the study. The consulting firm conducting the field work for trash sampling is Sky Valley Associates and the crew chief is Brad Anderson. The consulting firm conducting field work for recycling sorting is L2 Environmental and the crew chief is Leslie Lukacs. CalRecycle staff will assist with some of the parts of the study and will also visit some sites to observe the field work.

All data from businesses will remain confidential, and only aggregate data will be reported to give statewide average information about the waste and recycling streams.

For questions or more information, please contact:

Nancy Carr, Project Manager (916) 341-6216 Nancy.Carr@CalRecycle.ca.gov

Tom Rudy (916) 341-6229 Thomas.Rudy@CalRecycle.ca.gov

Thank you for your cooperation in this important study.

Sincerely,

John Sitts, Manager Knowledge Integration Section Policy Development and Analysis Office

# **Business Recruitment**

This section includes the forms used to recruit generator sites.

# Generator Site Recruitment Call Sheet

Business Sector:	Region	Size Break:	
Motion Picture and Sound Recording	South	20	
Number of Businesses to Recruit (per season):		# Recruited:	Total # of Businesses on List
0/2/2/2			490

	easo	n 4	Business ID	Company Name	Contact Name	Address	City	ZIP	Phone	NAICS Description	Number of Employees	# of times contacted	Recruited (Y or N)	Comments
Y		-	51270				Palm Springs	92264		Motion Picture & Video Production	8			
Y		-	52200				Gilman Hot Spgs	92583		Motion Picture & Video Production	300			
Y		-	51819				Big Bear City	92314		Sound Recording Studios	5			
Y		-	49626				Indian Wells	92210		Motion Picture & Video Production	6			
Y		-	51051				Palm Springs	92262		Motion Picture Theaters (Except Drive-Ins)	16			
- `	( -	Y	5423				Los Angeles	90028		Sound Recording Studios	15			
- '	( -	-	12416				Culver City	90230		Motion Picture & Video Production	5			
- '	( -	Y	5687				Los Angeles	90028		Motion Picture & Video Production	60			
- '	( -	Y	31564				Universal City	91608		Motion Picture & Video Distribution	10			
- '	( -	-	5749				Los Angeles	90029		Motion Picture & Video Production	5			
- '	( -	Y	30397				Burbank	91506		Motion Picture & Video Distribution	15			
- '	( -	Y	7048				Los Angeles	90038		Motion Picture & Video Production	200			

## **Initial Business Recruitment Script**

#### CALRECYCLE STATEWIDE STUDY-GUIDELINES FOR BUSINESS RECRUITMENT

#### Introduction

The purpose of the study is to find out how much and what kind of waste and recycling is being created and disposed by California's businesses. The findings of this study will help the State plan for future recycling and disposal needs. Our research team wants to take a sample of garbage and maybe recycling from your dumpster or trash can, which we will take away, sort, and dispose. All the results of the study are completely anonymous and we will be averaging your results together with hundreds of other businesses statewide. No individual business will be identified in the study results.

The study consists of three parts:

- 1) This initial phone call (which will only take a few minutes)
- A follow up phone call within a week to make arrangements for collecting a sample of garbage and to gather a few more details about your waste handling practices (which takes about 5-10 minutes).
- 3) A visit to your business to take a sample of garbage and just look at your recycling. (which shouldn't take more than 10 minutes of your time and could take none or very little to none depending on how accessible your dumpsters are)

Would you be willing to assist us with this study? We would be happy to provide you with the study results if you do participate, which can be helpful for your own personal waste and recycling planning.

- If no, thank them for their time and hang up.
- If yes, continue on...

#### Screening Criteria

Thank you, I have a few more questions for you, just to verify your business meets a few criteria.

- Does your business have fewer than 5 employees?
  - If no, move on to next question
  - o If yes, thank them for their time and say it won't work out
- Do you operate your business out of your home?
  - If no, move on to next question
  - o If yes, thank them for their time and say it won't work out
- Do you share a dumpster (or compactor) with another business? (For instance, if in an office building or mall)
  - o If no, move on to next question
  - If yes, thank them for their time and say it won't work out
- Do you generate at least 200 lbs of garbage between scheduled pickups OR do you generate 200 lbs of garbage over the course of one week? This 200 lbs is for garbage only, this does not include recycling or compost. An example of what 200 lbs might look like: two 96 gallon carts or a full one yard dumpster.
  - o If yes to either question, they pass and move on to the follow-up questions
  - o If no, thank them for their time and say it won't work out

(over)

#### Follow-up Questions [They've said yes and pass all the criteria]

Great, if I could get some general contact information:

- Verify address, business name, and type of business (you are you in the business of ...)
  - If their current physical address is not the same as the physical address supplied on the call sheet, yerify that their new zip code is still within the study area.
- What are the hours of operation for the business?
- Can I get the contact information for the person or persons, if different from you, who we should
  call back to get more detailed information about your disposal and recycling practices such as
  days garbage and recycling is collected, dumpster sizes, etc.? When is the best time to reach this
  person? How do they prefer being contacted? (phone, email, text)
- Do you know where your garbage goes when collected?
  - o Landfill, transfer station, material recovery facility (MRF, pronounced "murf")
- Do you have recycling service? Do you have compost service? (Food scraps, green waste, etc.)
- Subsequent calls and visits to collect information and material will be carried out by members of
  either our contracted research team, Cascadia Consulting Group, or by CalRecycle staff. Are both
  of these options acceptable to you?

Thank them and remind them that they will receive a follow up phone call within a week to gather more logistics about their trash and recycling.

## **Business Recruitment Form**

Cal Recycle 🥭	CalRecycle Statew Business Recruitmer	v	Recruitment Finished (for CCG use only)
Business ID #:	Recruitment dat	e and time:	
Region:	Rec	ruiters: (COS)	/ <sub>(CCG)</sub>
1. Contact Information		<u></u>	
Business name (as it appears on sign outside)	Name:		
Street address	Address		
2. Screening Criteria			
□ Business has 5 or more employees		Business does not share of	dumpster with other business
□ Business is not out of a home		Business generates 200 l	bs of waste in one week / per collection
□ Business has agreed to participate in all parts o	f the study	Verify business industry	group is correct
	Describe if uncertain of correct classification		
Industry Group:	correct classification		
Hours of operation	Days & Hours		
Senior manager who has given permission	Name		
□ You have explained all aspects of the study t the senior manager	o Title:		Preferred followup
	Phone		(phone email text)
□ Manager of Trash / Custodial Crew	Nomo		
Aware they will be contacted after your phone call for			Preferred followup
further waste details and sampling logistics	Phone		(phone email text)
Person who can provide data (operational hours	, employees, etc) Name		
Role	Phone		Preferred followup (phone email text)
	1 1010		(phone childh text)
(for CCG use only) Person to contact when we arrive/notify of our imm	Name: ninent arrival.		Preferred followup
· · · · · · · · · · · · · · · · · · ·	Phone		(phone email text)
Where does garbage go?	Other Services Provided:	Do They Want Results?	Is being contacted by CalRecycle OK?
□ Landfill □ Transfer Station	Recycling	□ Yes	□ Yes
Materials Recovery Facility	Compost	D No	□ No
Recrutment Notes:			

Business ID #: \_

All Businesses:	Groups G&H
Total Number of Employees	(G-Services - Professional + FIRE + Communications)
Number of Full Time Equivelants (FTE)	(H-Services - Management, Administrative, Support, Social)
Hotels:	Sq. Ft. of business space
Number of Rooms	Do they occupy the whole bldg? $\Box$ Part? $\Box$
Schools (K-12 Only)	Any Enviro Certifications?
Number of Students	None 🗆 LEED 🗆
Number of Staff	Energy Star $\Box$ Other $\Box$
Number of School Days per Year	Group J-Hospital+Nursing & Res. Care Facil
Apartment Buildings	Number of Beds
Number of Apartments	Group K - Art
Number Occupied	Number of visitors annually?
ste Streams & Other Materials Diverted	
List all waste streams : V	Vaste streams:
(example: trash, recycling, compost, etc.)	
List all other materials diverted : Nan	ne/description:
List all other materials diverted :       Nam         (example: cardboard, pallets, shrink wrap, metal, etc.)	ne/description:
(example: cardboard, pallets, shrink wrap, metal, etc.)	how much)
(example: cardboard, pallets, shrink wrap, metal, etc.) Do you participate in a waste exchange (what materials and h	how much)
(example: cardboard, pallets, shrink wrap, metal, etc.) Do you participate in a waste exchange (what materials and h Do you donate used equipment (what materials and how muc	how much)
(example: cardboard, pallets, shrink wrap, metal, etc.) Do you participate in a waste exchange (what materials and h Do you donate used equipment (what materials and how muc Do you donate leftover food (only ask of appropriate business t	how much)
(example: cardboard, pallets, shrink wrap, metal, etc.) Do you participate in a waste exchange (what materials and h Do you donate used equipment (what materials and how muc Do you donate leftover food (only ask of appropriate business t Do you recycle ink and toner cartridges (how many/how much	how much)  h)  (ypes)  h)  ?

Number of dumpsters, compactors, etc Location(s) of containers Container Sizes (if known)		
Location(s) of containers		
Container Sizes (if known)		
Annual Quantities (if known)	tons/per	
Source for quantity information (bills, invoices)		(time frame,
Hauler and Contact Name/Phone (if known)		
2nd Waste Stream Name/description (trash, rec, compost, glass, etc.)		
Number of dumpsters, compactors, etc.		
Location(s) of containers		
Container Sizes (if known)		
Annual Quantities (if known)	tons/per	
Source for quantity information (bills, invoices)		(time frame)
Hauler and Contact Name/Phone (if known)		
3rd Waste Stream Name/description (trash, rec, compost, glass, etc.)		
Number of dumpsters, compactors, etc.		
Location(s) of containers		
Container Sizes (if known)		
Annual Quantities (if known)	tons/per	
Source for quantity information (bills, invoices)		(time frame)
Hauler and Contact Name/Phone (if known)		
4th Waste Stream Name/description (trash, rec, compost, glass, etc.)		
Number of dumpsters, compactors, etc.		
Location(s) of containers		
Container Sizes (if known)		
Annual Quantities (if known)		
Source for quantity information (bills, invoices)		(time frame)
Hauler and Contact Name/Phone (if known)		
5th Waste Stream Name/description (trash, rec, compost, glass, etc.)		
Number of dumpsters, compactors, etc.		
Location(s) of containers		
Container Sizes (if known)		
Annual Quantities (if known)	tons/per	·
Source for quantity information (bills, invoices)		(time frame
Hauler and Contact Name/Phone (if known)		-
ruitment Notes		
otes:		
utes.		

her Materials Diverted					
1st Material	Name/description:				
(actual quantities if possible, estimate if necessary.)	Quantity diverted:				
	Per (circle one):	Day	Week	Month	Year
2nd Material	Name/description:				
(actual quantities if possible, estimate if necessary.)	Quantity diverted:				
	Per (circle one):	Day	Week	Month	Year
3rd Material	Name/description:				
(actual quantities if possible, estimate if necessary.)	Quantity diverted:				
	Per (circle one):	Day	Week	Month	Year
4th Material	Name/description:				
(actual quantities if possible, estimate if necessary.)	Quantity diverted:				
	Per (circle one):	Day	Week	Month	Year
5th Material	Name/description:				
(actual quantities if possible, estimate if necessary.)	Quantity diverted:				
	Per (circle one):	Day	Week	Month	Year
6th Material	Name/description:				
(actual quantities if possible, estimate if necessary.)	Quantity diverted:				
	Per (circle one):	Day	Week	Month	Year
7th Material	Name/description:				
(actual quantities if possible, estimate if necessary.)	Quantity diverted:				
	Per (circle one):	Day	Week	Month	Year
uitment Notes					
tes:					

#### Business ID #: \_\_\_

6.	Waste Generation and Collection			
	Days and hours waste is generated	Days & Hours	3:	
	Disposal Times			
	Days and times trash is taken TO the container		Continuously, or	
	(be specific, ex. After closing or after lunch crowd at 2pm)	Times	s:	
	Days and times recycling is taken TO the container		] Continuously, or	
	(be specific, ex. After closing or after lunch crowd at 2pm)	Times		
	Days and times compost is taken TO the container		] Continuously, or	
	(be specific, ex. After closing or after lunch crowd at 2pm)		s:	
	Collection Times			
	When is trash picked up by hauler	Days & Times:		
	□ Verified collection times with hauler			
	Is trash dirty MRF'd? (verify with hauler and circle one	)	Yes No	
	When is recycling picked up by hauler	Days & Times:		
	□ Verified collection times with hauler			
	When is compost picked up by hauler	Days & Times:		
	□ Verified collection times with hauler	Days & Times.		
-				
1.	Sampling Visit			
	List barriers-locks or gates-that we will		?	
	encounter when we visit, and times they are enforced. Dogs or guards present?	Other Barriers	?	
	enforced. Dogs of guards present:	Times Enforced	d	
	When common act access to contain and?			
	When can we get access to containers? ( <i>i.e. during business hours only, 24 hours per day, other ca</i>	onstraints, etc.)		
	Is this the same for all containers, including recycling a	and compost?		
_		<b>I</b>		
	MCR Questions			
	Do you know about state or city/county requirements for b	-		
D.	If yes, have you changed your recycling practices or pickup ecruitment Notes	p service because of t	these require Yes No	
n				
	Notes:			

#### Business ID #: \_\_\_\_\_

Container Waste Strea Type of container Container description (if necessary)	m Name:					
Container description <i>(if necessary)</i>						
container accerption ( <i>g</i> accessary)						
Location of container (if not the same as all others in this waste	stream)					
□ Waste generation time is the same as in Section 5, <i>explain if dip</i>	fferent					
□ Waste is taken TO container the same as in Section 5, explain i	f different					_
□ Hauler collection times are the same as in Section 5, <i>explain if a</i>	different					
Tons of trash generated		_		tons/	per	
Source of this information			_		(time fr	ame)
OR —	• 1					
Container measurements, <i>measured from inside wall to ins</i> Side to Side measurement	<i>side wall</i> Length:					incl
Front to Back measurement	Depth:					incl
Height of Trash measurement	Height:					incl
Approximately how full was this container	full	3⁄4	$\frac{1}{2}$	1⁄4	empty	(circle o
	Day:			,		am/
Time of last trash collection before measurement						
Time of measurement otes: Container Waste Strea	Day: m Name:			,		am /
Time of measurement				,		am /
Time of measurement otes: Container Waste Strea				,		am /
Time of measurement otes: Container Waste Strea Type of container	m Name:			,		am /
Time of measurement tes:  Container  Container  Container description (if necessary)	m Name:			,		am /
Time of measurement         otes:         Container         Type of container         Container description (if necessary)         Location of container (if not the same as all others in this waste	m Name:			<u>,</u>		am /
Time of measurement         ottes:         Container       Waste Streat         Type of container         Container description (if necessary)         Location of container (if not the same as all others in this waste         Waste generation time is the same as in Section 5, explain if dij	m Name: stream) fferent f different			,		am / ;
Time of measurement         Intes:       Waste Streat         Type of container       Waste Streat         Container description (if necessary)       Location of container (if not the same as all others in this waste         Waste generation time is the same as in Section 5, explain if dif         Waste is taken TO container the same as in Section 5, explain if	m Name: stream) fferent f different			,	per	am /
Time of measurement         ottes:       Waste Streat         Type of container       Waste Streat         Type of container       Container description (if necessary)         Location of container (if not the same as all others in this waste         Waste generation time is the same as in Section 5, explain if dij         Waste is taken TO container the same as in Section 5, explain if of         Hauler collection times are the same as in Section 5, explain if of         Tons of trash generated	m Name: stream) fferent f different			,	per (time fr	
Time of measurement         Intes:       Waste Streat         Type of container       Waste Streat         Container description (if necessary)       Location of container (if not the same as all others in this waste         Waste generation time is the same as in Section 5, explain if dij       Waste is taken TO container the same as in Section 5, explain if of         Hauler collection times are the same as in Section 5, explain if of       Tons of trash generated         Source of this information       OR	m Name:			, 		
Time of measurement  Time of measurement  Tes:  Container  Container  Container description (if necessary)  Location of container (if not the same as all others in this waste  Waste generation time is the same as in Section 5, explain if dif  Waste is taken TO container the same as in Section 5, explain if of Hauler collection times are the same as in Section 5, explain if of Tons of trash generated Source of this information	m Name:			,		ame)
Time of measurement         Intes:       Waste Streat         Type of container       Waste Streat         Type of container       Container description (if necessary)         Location of container (if not the same as all others in this waste         Waste generation time is the same as in Section 5, explain if dij         Waste generation times are the same as in Section 5, explain if dij         Hauler collection times are the same as in Section 5, explain if of         Tons of trash generated         Source of this information         OR       Container measurements, measured from inside wall to interest	m Name:				(time fro	ame)
Time of measurement  Time of measurement  Time of measurement  Type of container  Container description ( <i>if necessary</i> )  Location of container ( <i>if not the same as all others in this waste</i> Vaste generation time is the same as in Section 5, <i>explain if dif</i> Waste is taken TO container the same as in Section 5, <i>explain if dif</i> Waste is taken TO container the same as in Section 5, <i>explain if dif</i> Naste is taken TO container the same as in Section 5, <i>explain if dif</i> Tons of trash generated  Source of this information  OR —  Container measurements, <i>measured from inside wall to ins</i> Side to Side measurement	m Name:				(time fro	ame) inc inc
Time of measurement         Intes:       Waste Streat         Type of container       Waste Streat         Container description (if necessary)       Location of container (if not the same as all others in this waste         Waste generation time is the same as in Section 5, explain if dij       Waste is taken TO container the same as in Section 5, explain if dij         Hauler collection times are the same as in Section 5, explain if of Tons of trash generated       Source of this information         OR       Container measurements, measured from inside wall to inside to Side to Side measurement	m Name:				(time fro	ame) inci inci inci
Time of measurement  Time of measurement  Type of container  Container Waste Stread  Type of container  Container description ( <i>if necessary</i> )  Location of container ( <i>if not the same as all others in this waste</i> Waste generation time is the same as in Section 5, <i>explain if dif</i> Waste is taken TO container the same as in Section 5, <i>explain if dif</i> Waste is taken TO container the same as in Section 5, <i>explain if dif</i> Waste is taken TO container the same as in Section 5, <i>explain if dif</i> Cons of trash generated Source of this information  OR —  Container measurements, <i>measured from inside wall to ine</i> Side to Side measurement Height of Trash measurement	m Name:	3⁄4	1/2	1/4	(time fro	ame) inc

## **Business Recruitment Letter**

California Environmental Protection Agency

**CalRecycle** 

Edmund G. Brown Jr., Governor

# DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY

1001 I STREET, SACRAMENTO, CALIFORNIA 95814 • WWW.CALRECYCLE.CA.GOV • (916) 322-4027 P.O. Box 4025, SACRAMENTO, CALIFORNIA 95812

#### Re: Statewide Waste Characterization Study

Dear Business Owner or Manager:

CalRecycle is conducting a study of the types and amounts of materials in California's waste and recycling streams. We have randomly selected more than 800 California businesses to be part of the study. We need your help to get good data! Thank you for agreeing to participate. We use this information to:

- Determine where specific material types are originating—and where they're ending up;
- 2. Track our progress in providing Californians the tools necessary to reduce our wastes; and
- Identify key opportunities to support Californians in using less, recycling more, and taking resource conservation to higher levels.

This strategy has worked. With a 66% diversion rate, California is currently leading the nation in terms of program effectiveness. There are currently more than 100,000 jobs related to recycling and diversion in California, and as recycling increases, so will the jobs. Jurisdictions throughout the state are reaching new, higher levels of waste prevention and diversion; and businesses are transforming their industries by innovating new and better ways to manage resources.

You are being asked to help with two or three phases of the study:

- The first phase is a 15-20 minute phone interview asking general questions about your current trash and recycling services.
- The second phase consists of collecting a sample of your waste, which will be sorted at a local
  waste disposal or processing facility to determine the exact types and quantities of materials
  disposed. Please keep in mind that your trash will be combined with others from your business
  type and that your trash will be disposed of immediately and properly afterwards.
- About half of the businesses will participate in the third phase an onsite survey of your business by one of our specially trained consultants to identify and measure current diversion practices. This may include sorting materials in your recycling or compost bins.

CalRecycle has hired Cascadia Consulting Group, Consumer Opinion Services, Sky Valley Associates, and L2 Environmental to assist with the study.

Any information about your business will be kept confidential and only aggregate totals will be used in the final analysis. The study results for your business will be provided to you upon request.

If you have any questions or would like more information about the study, please contact our Project Managers, Nancy Carr, at (916) 341-6216 or nancy.carr@calrecycle.ca.gov; or Tom Rudy at (916) 341-6229 or thomas.rudy@calrecycle.ca.gov. The project website is available at <a href="http://www.calrecycle.ca.gov/WasteChar/2014Study.htm">http://www.calrecycle.ca.gov/WasteChar/2014Study.htm</a>. Thank you for your cooperation in assisting us with this important study.

Sincerely,

John Sitts, Manager Knowledge Integration Section

# Multi-Family Recruitment

## **Multi-Family Recruitment Script**

#### CALRECYCLE STATEWIDE STUDY-GUIDELINES FOR MULTIFAMILY RECRUITMENT

#### Introduction

Hi, I'm working with CalRecycle, California's governmental solid waste management agency. We're conducting a study about waste and recycling disposal and we'd like to request your help with this study. May I speak to (contact name, manager/owner?)

The purpose of the study is to find out how much and what kind of waste and recycling is being created and disposed by California's businesses, apartments, and houses. The findings of this study will help the State plan for future recycling and disposal needs. Our research team wants to take a sample of garbage and maybe recycling from your dumpster or trash can, which we will take away, sort, and dispose. All the results of the study are completely anonymous and we will be averaging your results together with hundreds of other businesses statewide. No individual business will be identified in the study results.

The study consists of two parts:

- 1) This initial phone call (which will only take a few minutes)
- 2) A visit to your business to take a sample of garbage and just look at your recycling. (which shouldn't take more than 10 minutes of your time and could take none or very little to none depending on how accessible your dumpsters are)

Would you be willing to assist us with this study? We would be happy to provide you with the study results if you do participate, which can be helpful for your own personal waste and recycling planning.

- If no, thank them for their time and hang up.
- If yes, continue on...

#### Screening Criteria

0

Thank you, I have a few more questions for you, just to verify your business meets a few criteria.

- · Do you share a dumpster (or compactor) with a business or other apartment building?
  - If no, move on to next question
  - o If yes, thank them for their time and say it wont work out
- Do you have 5 or more apartment units?
  - o If yes, they pass and move on the follow-up questions
  - o If no, thank them for their time and say it wont work out

Follow-up Questions [They've said yes and pass all the criteria]

Great, if I could get some general contact information:

- Can I get the contact information for the person or persons, if different from you, who we should call back to get
  more detailed information about your disposal and recycling practices such as days garbage and recycling is
  collected, dumpster sizes, etc.? When is the best time to reach this person? How do they prefer being contacted?
  (phone, email, text)
- How many units are in the building? How many of those are normally occupied (are there usually vacancies)?
- · Do you know where your garbage goes when collected?
  - o Landfill, transfer station, material recovery facility (MRF, pronounced "murf")
- Do you have recycling service? Do you have compost service? (Food scraps, green waste, etc.)
- Subsequent calls and visits to collect information and material could be carried out by <u>CalRecycle</u> staff. Would this be acceptable to you?

Thank them and remind them that they will receive a follow up phone call within a week to gather more logistics about their trash and recycling.

# Multi-Family Recruitment Form

Cal Recycle 🧭	CalRecycle Statev Multifamily Recruit	•	Recruitment Finis (for CCG use onl)	
Business ID #:	Recruitment dat	e and time:		
Region:	Re	cruiters: (COS)	/ (CCG)	
1. Contact Information				
Business name (as it appears on sign outside)	Name			
Street address	Address			
2. Screening Criteria				
Apartment complex has 5 or more units		Season: (circle)	Winter Spring	
□ Apartment complex does not share dumpster	with other business		Summer Fall	
□ Apartment complex has agreed to participate				
3. Additional Information				
Senior manager who has given permission	Name	:		
□ You have explained all aspects of the study	7 to Title	:		
the senior manager	Phone		Preferred followu (phone email	ıp text)
		•	(priorie emitir	tont)
□ Manager of Trash / Custodial Crew		: <u> </u>		
Aware they will be contacted after your phone call further waste details and sampling logistics	for Phone	:	Preferred followu (phone email	ıp text)
Person who can provide data	Name	::	Preferred followu	ap
Role	Phone	:	(phone email	text)
(for CCG use only)	Name	:		
Person to contact when we arrive/notify of our in		-	Preferred followu (phone email	ıp text)
Where does garbage go?	Other Services Provided:	Do They Want Results?	Is being contacted by CalRecycle	
Landfill     Transfer Station		□ Yes		011.
□ Materials Recovery Facility	Compost	□ No	□ No	
Recrutment Notes:	1	1	1	

Business ID #: \_

rrelative Factors	
All Businesses:	Groups G&H
Total Number of Employees	(G-Services - Professional + FIRE + Communications)
Number of Full Time Equivelants (FTE)	(H-Services - Management, Administrative, Support, Social)
Hotels:	Sq. Ft. of business space
Number of Rooms	Do they occupy the whole $bldg$ ? $\Box$ Part? $\Box$
Schools (K-12 Only)	Any Enviro Certifications?
Number of Students	None  LEED
Number of Staff	Energy Star $\Box$ Other $\Box$
Number of School Days per Year	Group J-Hospital+Nursing & Res. Care Facil
Apartment Buildings	Number of Beds
Number of Apartments	Group K - Art
Number Occupied	Number of visitors annually?
ste Streams & Other Materials Diverted	
List all waste streams : V	Vaste streams:
(example: trash, recycling, compost, etc.)	
Liet all other materials diverted · Nan	ne/description
	ne/description:
List all other materials diverted : Nan (example: cardboard, pallets, shrink wrap, metal, etc.)	ne/description:
(example: cardboard, pallets, shrink wrap, metal, etc.)	now much)
(example: cardboard, pallets, shrink wrap, metal, etc.) Do you participate in a waste exchange (what materials and h	h)
(example: cardboard, pallets, shrink wrap, metal, etc.) Do you participate in a waste exchange (what materials and h Do you donate used equipment (what materials and how muc	h)
(example: cardboard, pallets, shrink wrap, metal, etc.) Do you participate in a waste exchange (what materials and h Do you donate used equipment (what materials and how muc Do you donate leftover food (only ask of appropriate business t	h)
(example: cardboard, pallets, shrink wrap, metal, etc.) Do you participate in a waste exchange (what materials and h Do you donate used equipment (what materials and how muc Do you donate leftover food (only ask of appropriate business t Do you recycle ink and toner cartridges (how many/how much	h)

1st Waste Stream Name/description (trash, rec, compost, glass, etc.)		
Number of dumpsters, compactors, etc.		
Location(s) of containers		
Container Sizes (if known)		
Annual Quantities (if known)	tons/per	
Source for quantity information (bills, invoices)		(time frame)
Hauler and Contact Name/Phone (if known)		
2nd Waste Stream Name/description (trash, rec, compost, glass, etc.)		
Number of dumpsters, compactors, etc.		
Location(s) of containers		
Container Sizes (if known)		
Annual Quantities (if known)	tons/per	
Source for quantity information (bills, invoices)		(time frame)
Hauler and Contact Name/Phone (if known)		
3rd Waste Stream Name/description (trash, rec, compost, glass, etc.)		
Number of dumpsters, compactors, etc.		
Location(s) of containers		
Container Sizes (if known)		
Annual Quantities (if known)		
Source for quantity information (bills, invoices)		(time frame,
Hauler and Contact Name/Phone (if known)		
4th Waste Stream Name/description (trash, rec, compost, glass, etc.)		
Number of dumpsters, compactors, etc.		
Location(s) of containers		
Container Sizes (if known)		
Annual Quantities (if known)		
Source for quantity information (bills, invoices)	=	(time frame)
Hauler and Contact Name/Phone (if known)		
5th Waste Stream Name/description (trash, rec, compost, glass, etc.)		
Number of dumpsters, compactors, etc.		
Location(s) of containers		
Container Sizes (if known)		
Annual Quantities (if known)	tons/per	
Annual Quantities (if Known)		(time frame
Source for quantity information (bills, invoices)		-
Hauler and Contact Name/Phone (if known)		
otes:		
ites:		

her Materials Diverted	<b>N 1 1 1</b>				
1st Material	Name/description:				
(actual quantities if possible, estimate if necessary.)	Quantity diverted:				
	Per (circle one):	Day	Week	Month	Year
2nd Material	Name/description:				
(actual quantities if possible, estimate if necessary.)	Quantity diverted:				
	Per (circle one):	Day	Week	Month	Year
3rd Material	Name/description:				
(actual quantities if possible, estimate if necessary.)	Quantity diverted:				
	Per (circle one):	Day	Week	Month	Year
4th Material	Name/description:				
(actual quantities if possible, estimate if necessary.)	Quantity diverted:				
	Per (circle one):	Day	Week	Month	Year
5th Material	Name/description:				
(actual quantities if possible, estimate if necessary.)	Quantity diverted:				
	Per (circle one):	Day	Week	Month	Year
6th Material	Name/description:				
(actual quantities if possible, estimate if necessary.)	Quantity diverted:				
	Per (circle one):	Day	Week	Month	Year
7th Material	Name/description:				
(actual quantities if possible, estimate if necessary.)	Quantity diverted:				
	Per (circle one):	Day	Week	Month	Year
uitment Notes					
tes:					

#### Business ID #: \_\_\_

6.	Waste Generation and Collection			
	Days and hours waste is generated	Days & Hours	3:	
	Disposal Times			
	Days and times trash is taken TO the container		Continuously, or	
	(be specific, ex. After closing or after lunch crowd at 2pm)	Times	s:	
	Days and times recycling is taken TO the container		] Continuously, or	
	(be specific, ex. After closing or after lunch crowd at 2pm)	Times		
	Days and times compost is taken TO the container		] Continuously, or	
	(be specific, ex. After closing or after lunch crowd at 2pm)		s:	
	Collection Times			
	When is trash picked up by hauler	Days & Times:		
	□ Verified collection times with hauler			
	Is trash dirty MRF'd? (verify with hauler and circle one	)	Yes No	
	When is recycling picked up by hauler	Days & Times:		
	□ Verified collection times with hauler			
	When is compost picked up by hauler	Days & Times:		
	□ Verified collection times with hauler	Days & Times.		
-				
1.	Sampling Visit			
	List barriers-locks or gates-that we will		?	
	encounter when we visit, and times they are enforced. Dogs or guards present?	Other Barriers	?	
	enforced. Dogs of guards present:	Times Enforced	d	
	When common act access to contain and?			
	When can we get access to containers? ( <i>i.e. during business hours only, 24 hours per day, other ca</i>	onstraints, etc.)		
	Is this the same for all containers, including recycling a	and compost?		
_		<b>I</b>		
	MCR Questions			
	Do you know about state or city/county requirements for b	-		
D.	If yes, have you changed your recycling practices or pickup ecruitment Notes	p service because of t	these require Yes No	
n				
	Notes:			

#### Business ID #: \_\_\_\_\_

ste Container Measurements						
Container Waste S	stream Name:					
Type of container						
Container description (if necessary)						
Location of container (if not the same as all others in this a	vaste stream)					
□ Waste generation time is the same as in Section 5, explain	if different					
$\hfill\square$ Waste is taken TO container the same as in Section 5, $exp$	lain if different					
$\Box$ Hauler collection times are the same as in Section 5, <i>expla</i>	in if different					
Tons of trash generated				tons/	/per	
Source of this information					(time fr	ame)
OR — Container measurements, measured from inside wall	to incide wall					
Side to Side measurement						inch
Front to Back measurement	Depth:					inch
Height of Trash measurement	Height:					inch
$\hfill \Box$ Approximately how full was this container	full	3⁄4	$\frac{1}{2}$	1⁄4	empty	(circle or
	Dav			,		am / j
Time of last trash collection before measurement						
Time of measurement tes:	Day:			,		am /
Time of measurement tes:	Day:		_	,		am/
Time of measurement tes: Container Waste S Type of container	Day:			3		am / ]
Time of measurement tes:  Container Container Container (if necessary)	Day:			,		am / j
Time of measurement tes:          Container       Waste S         Type of container       Container description (if necessary)         Location of container (if not the same as all others in this and the same as all others in the sa	Day:			,		am / )
Time of measurement         tes:         Container         Waste S         Type of container         Container description (if necessary)         Location of container (if not the same as all others in this to         Waste generation time is the same as in Section 5, explain	Day:			,		am / j
Time of measurement         tes:         Container       Waste S         Type of container         Container description ( <i>if necessary</i> )         Location of container ( <i>if not the same as all others in this a</i> Waste generation time is the same as in Section 5, explain         Waste is taken TO container the same as in Section 5, exp	Day:			,		am / j
Time of measurement         tes:         Container       Waste S         Type of container       Container description (if necessary)         Location of container (if not the same as all others in this of the same as all others in this of the same as in Section 5, explain         Waste is taken TO container the same as in Section 5, explain         Hauler collection times are the same as in Section 5, explain	Day:			,		am / )
Time of measurement         tes:         Container       Waste S         Type of container         Container description ( <i>if necessary</i> )         Location of container ( <i>if not the same as all others in this a</i> Waste generation time is the same as in Section 5, explain         Waste is taken TO container the same as in Section 5, exp	Day:			,	<sup>/</sup> per (time fr	
Time of measurement         tes:         Container       Waste S         Type of container       Container description (if necessary)         Location of container (if not the same as all others in this of the same as all others in this of the same as in Section 5, explain         Waste is taken TO container the same as in Section 5, explain         Hauler collection times are the same as in Section 5, explain	Day:			, tons/		
Time of measurement         tes:         Container       Waste S         Type of container         Container description (if necessary)         Location of container (if not the same as all others in this to         Waste generation time is the same as in Section 5, explain         Waste is taken TO container the same as in Section 5, explain         Hauler collection times are the same as in Section 5, expla         Tons of trash generated         Source of this information         OR         Container measurements, measured from inside wall is	Day:				(time fro	ıme)
Time of measurement         tes:         Container       Waste S         Type of container         Container description ( <i>if necessary</i> )         Location of container ( <i>if not the same as all others in this a</i> Waste generation time is the same as in Section 5, <i>explain</i> Waste is taken TO container the same as in Section 5, <i>explain</i> Hauler collection times are the same as in Section 5, <i>explain</i> Tons of trash generated         Source of this information         OR         Container measurements, <i>measured from inside wall</i> is side to Side measurement	Day:				(time fro	ame)
Time of measurement         tes:         Container       Waste S         Type of container         Container description (if necessary)         Location of container (if not the same as all others in this to         Waste generation time is the same as in Section 5, explain         Waste is taken TO container the same as in Section 5, explain         Hauler collection times are the same as in Section 5, explain         Tons of trash generated         Source of this information         OR         Container measurements, measured from inside wall as Side to Side measurement         Front to Back measurement	Day:				(time fro	ame) incł
Time of measurement tes:   Container Waste S Type of container Container description ( <i>if necessary</i> ) Location of container ( <i>if not the same as all others in this a</i> Waste generation time is the same as in Section 5, <i>explain</i> Waste is taken TO container the same as in Section 5, <i>explain</i> Waste is taken TO container the same as in Section 5, <i>explain</i> Waste is taken TO container the same as in Section 5, <i>explain</i> Source of this information OR — Container measurements, <i>measured from inside wall</i> is Side to Side measurement Front to Back measurement Height of Trash measurement	Day:				(time fro	ame) incl incl incl
Time of measurement         tes:         Container       Waste S         Type of container       Waste S         Container description ( <i>if necessary</i> )       Location of container ( <i>if not the same as all others in this t</i> Waste generation time is the same as in Section 5, explain         Waste is taken TO container the same as in Section 5, explain         Hauler collection times are the same as in Section 5, explain         Tons of trash generated         Source of this information         OR         Container measurements, <i>measured from inside wall</i> is         Side to Side measurement         Height of Trash measurement         Height of Wastely how full was this container	Day:	3⁄4	1/2		(time fro	ame) inch inch (circle or
Time of measurement tes:   Container Waste S Type of container Container description ( <i>if necessary</i> ) Location of container ( <i>if not the same as all others in this a</i> Waste generation time is the same as in Section 5, <i>explain</i> Waste is taken TO container the same as in Section 5, <i>explain</i> Waste is taken TO container the same as in Section 5, <i>explain</i> Waste is taken TO container the same as in Section 5, <i>explain</i> Source of this information OR — Container measurements, <i>measured from inside wall</i> is Side to Side measurement Front to Back measurement Height of Trash measurement	Day:	3/4	1/2	1⁄4 ,	(time fro	inch inch (circle or am / p

## Multi-Family Recruitment Letter

Edmund G. Brown Jr., Governor

California Environmental Protection Agency

**Cal Recycle** 

## DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY

1001 I STREET, SACRAMENTO, CALIFORNIA 95814 • WWW.CALRECYCLE.CA.GOV • (916) 322-4027 P.O. BOX 4025, SACRAMENTO, CALIFORNIA 95812

January 14, 2014

Re: Use of Your Apartment Complex for Statewide Waste Characterization Study

Dear Apartment or Mobile Home Complex Owner or Manager:

CalRecycle is conducting a statewide waste characterization study to gather information on materials disposed by residential and commercial sources. Apartment complexes and mobile home parks are needed for the study to gather information on residential waste. This research will help to track our progress in meeting waste reduction goals, and in determining future steps to continue to reduce waste. Your site was randomly selected to be one of 50 sites throughout the state, and data from all sites will be combined to produce general information on waste from apartments and mobile homes. Any specific information for individual sites will be kept strictly confidential.

A sampling crew of 2-3 people will visit your site and remove a sample of about 200 pounds of garbage from the dumpsters at your site and place it in a container they bring with them. This sample will be taken to a nearby facility where samples from residential and commercial garbage trucks are also being collected. Once the sample has been sorted and weighed the material is disposed of along with trash from other samples. The sampling crew may visit early in the morning or in the evening on a day agreed upon in advance. This work is expected to begin the week of January 20, 2014 and conclude in November 2014.

At this time we need the following information to arrange sampling:

Who to contact at the site Location and accessibility of dumpsters Waste hauler name and pickup days Total number of units and number of occupied units

Our contractors, **Cascadia Consulting Group** and **MSW Consultants**, will be contacting the site to collect building information shortly before the sampling date. The sampling crew will be from **MSW Consultants. John Bowles** is the crew supervisor.

Thank you for cooperating with this study!

If you have any questions, please contact either of the following staff at CalRecycle:

Nancy Carr (916) 341-6216 e-mail: nancy.carr@calrecycle.ca.gov Tom Rudy (916) 341-6229 e-mail: thomas.rudy@calrecycle.ca.gov

Sincerely,

John Sitts, Manager Knowledge Integration Section

# **Business and Multi-Family Recruitment Database**

	irements ged recycling
Industry Group Multifamily Updated Industry Group?	9

Container Number	Container ID 734
Container Location       1/2 way down drive on right         & Description       side in corral         Hours Trash is       24/7         Generated (e.g.,       8am-6pm)	Pure Stream Material Enter tons from biz/hauler records
How is trash taken out? <b>continuous</b> If regular, when? (military time)	Dumpster Measurements 72 × 42 × 40
Sun. Time fregular, when? Mon. Time (OLD) Tue. Time frime Wed. Time frime Thu. Time frime Sat. Time frime	Before Sample Volume Measurements 1st Visit         72       x       42       x       39       inches         After Sample Measurements 1st Visit       72       x       42       x       14       inches         72       x       42       x       14       inches         Sample Date       1/20/2014       Time:       7:00
Is This Container Scavenged? Scavenging Notes Garbage Destiny	Date of Last Pickup: Time: Before Sample Volume Measurements 2nd Visit x x inches After Sample Measurements 2nd Visit
Notes Waste management is the hauler.	X X inches Sample Date: Time: Date of Last Pickup: Time:
	Before Sample Volume Measurements 3rd Visit         x       x       inches         After Sample Volume Measurements 3rd Visit         x       x       inches         sample Date       Time:
	Sample Date Time: Date of Last Pickup: Time: Sampl e Notes

# Field Data Collection Forms

Figure 80	. Example	Site Visit	Form,	Garbage	and Diver	sion

Ambulatory Health Can Los Angeles	90025	THIS BUSINESS NEE A REMINDER CALL		Souther Recruited b Ana
On-site Contact: Permission to Sample:	50023		Facility Mana	
Other contacts: Facilities/Custodial: Data:		Facility Manager Facility Manager		
	W-F wo Monda	M-F 9:00-17:00 to help you out combination for dumpster. He said build be best time to come, but ys are over flowing, so that would e a good sample.		
Recruitment Notes		100	Business Hou	IFS .
			Sunday Monday Tuesday Wednesday Thursday Friday Saturday	Open         Close           9:00         17:00           9:00         17:00           9:00         17:00           9:00         17:00           9:00         17:00           9:00         17:00
Substream # 1		Curbside Garbage Desc. if Other		# of 3
Collected 3 time(s) per w				
Collected M, W, F AM				
Collected M, W, F AM				



Container # 1 Where is the	Type: dumpster Back of building		Locked?	Collection is reg Collected 3 t Collected M, V	ime(s) per week
container: Special instructions to access the	Locked. Callto gain access the dumpsters	, he''ll show you to	Contamination Subsort?	On: Trash is taken o If regular,	
Container:	er Volume (inches):	Width	Length	goes out at — Height	inches
	l volume before g (inches):	Width	Length	Height	inches
	volume after ( (inches):	Width	Length	Height	inches
-			last pick-u		1025
Container # 2 Where is the container: Special	Back of building	he''l shou usu to	Locked?	Collected M, V On:	ime(s) per week v, FAM
Where is the		, he''ll show you to	Locked?	Collected 3 t Collected M, V	ime(s) per week v, FAM
Where is the container: Special instructions to access the container:	Back of building	, he''ll show you to Width	Locked?	Collected 3 t Collected M, V On: Trash is taken o If regular,	ime(s) per week v, FAM
Where is the container: Special instructions to access the container: Contain Materia	Back of building Locked. Call to gain access the dumpsters		Locked?	Collected <u>3</u> t Collected <u>M</u> , V On: Trash is taken o If regular, goes out at	ime(s) per week
Where is the container: Special instructions to access the container: Contain Material Material	Back of building Locked. Call to gain access the dumpstars er Volume (inches): I volume before	Width	Locked? Contamination Subsort? M Length	Collected 3 t Collected M, V On: Trash is taken o If regular, goes out at Height	ime(s) per week

Substrea	am # 1 Material 1	ype. corosoe	Garbage Desc. if Other	-	Containers 3
Container # 3				Collection is re	
Where is the container:	Back of building		Locked?		time(s) per week N, FAM
Special instructions to access the container:	Locked. Cali to gain access, the dumpstars	he"II show you to	Contamination Subsort?		out: continuous
Contain	er Volume (inches):	Width	Length	Height	inches
	l volume before g (inches):	Width	Length	Height	inches
	volume after g (inches):	Width	Length	Height	inches
Date and	time of		Date and t	time of	
measure	ments:		last pick-u	<b>p:</b>	
measure	ments:		last pick-u	p:	
measure	ments:		last pick-u	p:	
measure	ments:		last pick-u	p:	

Substream # <u>3874</u> Material	Type: <u>Curt</u>	oside Recycle Desc. i Other	Collection is rep	= of <u>1</u> Containers <u>1</u>
Where is the container:		Locked?	Collected 3 ti Collected M.W On:	me(s) per week
Special Instructions to access the container:		Contamination Subsort?	the state of the s	n out: continuous
Container info verified			Collection in	nfo verified
Container Volume (inches):	Width	Length	Height	inches
Material volume before sampling (inches):	Width	Length	Height	inches
Material volume after sampling (inches):	Width	Length	Height	inches
Date and time of measurements:		Date and t last pick-u		5
accumulated material		(if mixed please s	ort and record weights or	s a taily sheet)

Substream # 3875 Material	Type: Other	Diversion Desc. if Other	Collection is on-	all of 1		
Where is the container:		Locked?		me(s) per		
Special instructions to access the container:		Contamination Subsort?	Contraction and	n out: continuous		
Container info verified 🔲			Collection info verified			
Container Volume (inches):	Width	Length	Height	inches		
Material volume before sampling (inches):	Width	Length	Height	inches		
Material volume after sampling (inches):	Width	Length	Height	inches		
Date and time of measurements:	Date and time of last pick-up:					
If pure stream, weight of accumulated material		(if mixed please so	rt and record weights or	n a taily sheet)		

Container # 1       Type:       Collection is en-call         Where is the container:       Image: I
Special instructions to access the container:       Contamination Subsort?       Material is taken out: continuous If regular, goes out at         Container info verified       Collection info verified         Container Volume (inches):       Width       Length         Material volume before sampling (inches):       Width       Length         Height       inches
Container Volume (inches):     Width     Length     Height       Material volume before sampling (inches):     Width     Length     Height
Material volume before Width Length Height sampling (inches): inches
sampling (inches): inches
Material volume after Width Length Height
sampling (inches):
Date and time of Date and time of last pick-up:
If pure stream, weight of (if mixed please sort and record weights on a taily sheet) (if mixed please sort and record weights on a taily sheet) Notes

Container       Collected       on-call         Special instructions to access the container:       Contamination Subsort?       Material is taken out: continuous         If regular, container:       If regular, goes out at	Container # 1 Type:				Collection is on-call Collectedtime(s) per		
instructions to access the container:       Container with subsort?       Material is taken out: continuous if regular, goes out at         Container info verified       Collection info verified         Container Volume (inches):       Width       Length         Material volume before sampling (inches):       Width       Length         Material volume after sampling (inches):       Width       Length         Material volume after sampling (inches):       Width       Length         Height       inches         Date and time of measurements:       Date and time of last pick-up:       inches         If pure stream, weight of accumulated material       (if mixed please sort and record weights on a tally sheet)	container:				1		
Container Volume (inches):       Width       Length       Height         Material volume before sampling (inches):       Width       Length       Height         Material volume after sampling (inches):       Width       Length       Height         Material volume after sampling (inches):       Width       Length       Height         Date and time of measurements:       Date and time of last pick-up:       Inches         If pure stream, weight of accumulated material       (if mixed please sort and record weights on a taily sheet)	instructions to access the	the		Material is taken out: continuous If regular,			
Material volume before sampling (inches):       Width       Length       Height         Material volume after sampling (inches):       Width       Length       Height         Material volume after sampling (inches):       Width       Length       Height         Date and time of measurements:       Date and time of last pick-up:       Inches         If pure stream, weight of accumulated material       (if mixed please sort and record weights on a taily sheet)	Container info verified 📋			Collection in	nfo verified		
sampling (inches):       inches         Material volume after sampling (inches):       Width       Length       Height         Date and time of measurements:       Date and time of last pick-up:       Inches         If pure stream, weight of accumulated material       (if mixed please sort and record weights on a tally sheet)	Container Volume (inches):	Width	Length	Height	inches		
sampling (inches):       inches         Date and time of measurements:       Date and time of last pick-up:         If pure stream, weight of accumulated material       (if mixed please sort and record weights on a taily sheet)		Width	Length	Height	inches		
measurements:		Width	Length	Height	inches		
accumulated material (if mixed please sort and record weights on a taily sheet)							
Notes	and the second		(if mixed please s	ort and record weights or	a tally sheet)		
	Notes						
					Page 5		



Figure 81. Example Sample Placard

Sample ID#:	Busine	ess ID#:		Photo: Subsort:	L
OCC (Clean)			PETE Cont CRV (Clean)		Ē
(Load Contaminated)			(Load Contaminated)		
(Source Contaminated)			(Source Contaminated)	-	
Paper Bags (Clean)			PETE Cont Non-CRV (Clean)		
(Load Contaminated)			(Load Contaminated)		
(Source Contaminated)			(Source Contaminated)		
Newspaper (Clean)			HDPE Cont CRV (Clean)		
(Load Contaminated)			(Load Contaminated)		
(Source Contaminated)			(Source Contaminated)		
White Ledger (Clean)			HDPE Cont Non-CRV (Clean)		
(Load Contaminated)			(Load Contaminated)		
(Source Contaminated)			(Source Contaminated)		
Other Office Paper (Clean)			O Misc. Cont CRV (Clean)		
(Load Contaminated)			(Load Contaminated)		
(Source Contaminated)			(Source Contaminated)		
Magazines/Catalogs			Misc. Cont Non-CRV (Clean)		
Phone Book/Directory			(Load Contaminated)		
Other Misc. Paper- Comp. (Clean)			(Source Contaminated)		
(Load Contaminated)			Plastic Trash Bags		
(Source Contaminated)			Groc. & Other Merch. Bags		
Other Misc. Paper - Other (Clean)			Non-Bag Com. & Ind. Pack. Film		
(Load Contaminated)			Film Products		
(Source Contaminated)			Other Film - Flexible Pouches		
Rigid Food & Bev. Cartons (Clean)			Other Film - Other		
(Load Contaminated)			Durable - #2 & #5 Bulky Rigids		
(Source Contaminated)			Durable Plastic Items - Other		
R/C Paper - Compostable (Clean)			Remainder/Composite Plastic		
(Load Contaminated)					!
(Source Contaminated)			Tin/Steel Cans - CRV (Clean)		Γ
R/C Paper - Other (Clean)			(Load Contaminated)		
(Load Contaminated)			(Source Contaminated)		
(Source Contaminated)			Tin/Steel Cans - Other (Clean)		Γ
			(Load Contaminated)		
Clear - CRV			(Source Contaminated)		T
Clear - Non-CRV			Major Appliances		
Green - CRV			Used Oil Filters	Filter Cou	unt
Green - Non-CRV			✓ Other Ferrous		
8 Brown - CRV			Aluminum Cans - CRV (Clean)		Γ
Brown - Non-CRV			(Load Contaminated)		
Other Colored - CRV			(Source Contaminated)		T
Other Colored - Non-CRV			Alum. Cans - Non-CRV (Clean)		Γ
Flat Glass			(Load Contaminated)		
R/C Glass			(Source Contaminated)		
	, ,		Other Non-Ferrous		Γ
					H

### Figure 82. Example Sample Tally Sheet, front

Food	Notes:	
( % Leaves) & Grass		
Prunings and Trimmings		
Branches and Stumps		
Manures		
Textiles		
Carpet		
Remainder/Composite Organic		
Brown Goods		
Computer-related Electronics		
Other Small Electronics		
Computer-related Electronics Other Small Electronics Video Display Devices - CRT		
Video Display Devices - Other		
Concrete		
Asphalt Paving		
Asphalt Roofing		
Lumber - Clean Dimensional		
Lumber - Clean Pallets & Crates		
Lumber - Clean Engineered		
Lumber - Other		
Gypsum Board		
Rock, Soil and Fines		
R/C Inerts and Other		
F F F		
Paint		
Vehicle and Equipment Fluids		
Used Oil		
Batteries		
Batteries Mercury Items - Not Lamps		
Lamps-Non-incandescent & Non-halogen		
R/C HHW		
L 1	I	
Ash		
Treated Medical Waste		
Bulky Items		
Ash Treated Medical Waste Bulky Items Tires R/C Special Mixed Residue		
R/C Special		
Mixed Residue		

Total									Bay A	rea			Coa	stal			Mou	ntain			Sout	hern			Val	ley	
		Total		Lar	rge	Sn	nall	Tot	al	Large	Small	To	tal	Large	Small	То	tal	Large	Small	То	tal	Large	Small	То	tal	Large	Small
Group Task	Goal	Actual		Goal	Actual	Goal	Actual	Goal	Actual	Actual	Actual																
Overall Task 2	800	833	104%	704	485	176	348	183	205	107	98	37	41	20	21	12	12	9	3	443	446	282	164	125	129	67	62
Task 3	200	214	107%	0	143	0	71	44	52	35	17	8	14	8	6	2	2	1	1	114	116	78	38	32	30	21	9
Task 4	404	453	112%	0	269	0	184	93		62	47	24	28	13	15	10	10	6	4	213	235	147	88	64	71	41	30
A Task 2	50	51	102%	44	34	11	17	9	10	6	4	3	2	1	1	0	0	0	0	25	26	19	7	13	13	8	5
a Task 3	7	7	100%	-	5	-	2	1	1	1	0	0	0	0	0	0	0	0	0	4	4	3	1	2	2	1	1
a Task 4	25	30	120%	-	20	-	10	5	7	4	3	2	2	1	1	0	0	0	0	12	15	11	4	6	6	4	2
B Task 2	50	51	102%	44	19	11	32	10	9	1	8	1	2	2	0	1	1	1	0	34	32	14	18	4	7	1	6
b Task 3	12	12	100%	-	4	-	8	2	2	0	2	0	0	0	0	0	0	0	0	9	9	4	5	1	1	0	1
b Task 4	25	26	104%	-	10	-	16	5	5	0	5	1	1	1	0	1	1	1	0	16	17	8	9	2	2	0	2
C Task 2	50	51	102%	44	17	11	34	25	30	11	19	1	0	0	0	0	0	0	0	22	20	6	14	2	1	0	1
c Task 3	4	5	125%	-	1	-	4	2	2	0	2	0	0	0	0	0	0	0	0	2	3	1	2	0	0	0	0
c Task 4	25	26	104%	-	10	-	16	12	-	3	10	1	0	0	0	0	0	0	0	11		7	5	1	1	0	1
D Task 2	50	51	102%	44	31	11	20	10	15	6	9	1	2	1	1	0	0	0	0	31	28	21	7	8	6	3	3
d Task 3	9	9	100%	-	6	-	3	2	2	1	1	0	0	0	0	0	0	0	0	6	5	4	1	1	2	1	1
d Task 4	25	26	104%	-	15	-	11	5	5	3	2	1	1	0	1	0	0	0	0	15	15	9	6	4	5	3	2
E Task 2	50	53	106%	44	34	11	19	10	12	8	4	2	2	1	1	1	1	1	0	29	28	19	9	8	10	5	5
e Task 3	16	16	100%	-	11	-	5	3	3	2	1	1	1	1	0	0	0	0	0	9	9	6	3	3	3	2	1
e Task 4	25	25	100%	-	16	-	9	5	4	3	1	2	2	1	1	1	1	1	0	13	13	9	4	4	5	2	3
F Task 2	50	53	106%	44	34	11	19	11	12	7	5	3	4	3	1	1	1	1	0	27	27	20	7	8	9	3	6
f Task 3	5	7	140%	-	3	-	4	1	1	0	1	0	2	1	1	0	0	0	0	3	3	2	1	1	1	0	1
f Task 4	25	26	104%	-	16	-	10	5	5	3	2	2	3	2	1	1	1	1	0	13	13	8	5	4	4	2	2
G Task 2	50	52	104%	44	36	11	16	16	15	11	4	1	0	0	0	0	0	0	0	28	32	22	10	5	5	3	2
g Task 3	29	32	110%	-	24	-	8	9	14	11	3	1	1	1	0	0	0	0	0	16	15	11	4	3	2	1	1
g Task 4	29	42	145%	-	31	-	11	9	16	12	4	1	1	1	0	0	0	0	0	16		16	6	3	3	2	1
H Task 2	50	53	106%	44	27	11	26	12	13	6	7	2	3	1	2	0	0	0	0	30	30	17	13	6	7	3	4
h Task 3	23	23	100%	-	15	-	8	5	6	4	2	1	2	1	1	0	0	0	0	14	13	9	4	3	2	1	1
h Task 4	25	28	112%	-	17	-	11	6	7	4	3	1	2	1	1	0	0	0	0	15	16	11	5	3	3	1	2
Task 2	50	51	102%	44	45	11	6	10	11	9	2	2	2	2	0	1	1	1	0	28	28	26	2	9	9	7	2
i Task 3	17	17	100%	-	16	-	1	3	3	3	0	1	1	1	0	0	0	0	0	10	10	9	1	3	3	3	0
i Task 4	25	28	112%	-	25	-	3	5	6	5	1	1	1	1	0	1	1	1	0	13	13	12	1	5	7	6	1
J Task_2	50	55	110%	44	42	11	13	11	11	8	3	2	4	1	3	1	1	1	0	28	31	26	5	8	8	6	2
j Task_3	21	23	110%	-	19	-	4	4	5	4	1	0	1	0	1	1	1	1	0	12	12	10	2	4	4	4	0
j Task_4	25	33	132%	-	26	-	7	6	7	6	1	1	2	0	2	1	1	1	0	13	17	13	4	4	6	6	0

### Figure 83. Example Sample Tracking Log

### **Appendix E: Detailed Composition Tables**

The tables in this appendix detail the composition for the overall commercial sector, each industry group, and multi-family using the full 82-item material list.

### Means and Error Ranges

The data from the sorting process were treated with a statistical procedure that provided two kinds of information for each of the *material types*:

- The percent-by-weight estimated composition of waste represented by the samples examined in the study; and
- The confidence interval for the composition estimates.

All confidence intervals were calculated at the 90 percent confidence level. The equations used in these calculations appear in the Appendix C: Description of Calculations.

The example below illustrates how the results can be interpreted. In this example, the best estimate of the amount of *leaves and grass* present in the universe of waste sampled is 3.8 percent. The figure 0.7 percent reflects the precision of the estimate. When calculations are performed at the 90 percent confidence level, we are 90 percent certain that the true amount of *leaves and grass* is between 3.8 percent plus 0.7 percent and 3.8 percent minus 0.7 percent. In other words, we are 90 percent certain that the true mean lies between 4.5 percent and 3.1 percent.

Material Type	Est. Pct.	+/-
Leaves and grass	3.8%	0.7%

Confidence intervals were presented for each estimate of the amount of a material in the disposed waste stream and the curbside diversion streams. It was possible to calculate these expressions of our "certainty" in the percentage estimates for these streams because the composition estimates were based on a statistical sampling regimen involving randomly chosen segments of the stream (i.e., randomly chosen businesses, randomly chosen dumpsters, and randomly chosen scoops of material). In contrast, it was not possible to calculate similar confidence intervals for the other diversion composition estimates because the diversion estimates were not based on a statistical sampling approach. Instead, the study protocol called for the researchers to quantify all of each type of material that was diverted by each selected business, and their methods consisted more of tallying and accounting than randomized statistical sampling.

### Infrequent Material Types

Composition estimates for certain materials have a higher degree of uncertainty for two main reasons:

• The materials are infrequently disposed, and, consequently, appear infrequently in samples. Examples of such materials include *paint*, *tires*, and

*ash*. Because the composition results are based on few instances of these materials, the results are less certain, as shown by the relatively large confidence intervals.

• The quantity of material is highly variable between samples. *Treated medical waste*, for example, is rarely found in a sample. When it is found, there is usually a large quantity of it (because the sample was generated at a hospital or other treatment facility). This variability also increases the confidence intervals.

As an example, *remainder/composite household hazardous* is estimated to comprise 0.1 percent of the overall disposed stream with a 0.1 percent confidence interval. In other words, *remainder/composite household hazardous* may be as much as 0.2 percent or as little as 0.0 percent of the waste stream, 100 percent more or less than the best estimate (0.1 percent). Small, lightweight materials that appear frequently in samples also make up a small percentage of the overall composition. These frequently found materials, in contrast, have smaller relative confidence intervals. An example is *PETE containers - CRV*, which comprise a small percentage of the overall waste stream (0.3 percent) and have a relatively small confidence interval (0.036 percent).

#### Table 99. Detailed Composition – Disposed: Overall Commercial Sector

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	26.7%		4,415,748	Other Organic	38.8%		6.420.296
Uncoated Corrugated Cardboard	3.0%	0.3%	494,244	Food	24.4%	1.3%	4,035,748
Paper Bags	0.4%	0.1%	62,235	Leaves and Grass	3.2%	0.7%	524,559
Newspaper	2.0%	0.3%	337,096	Prunings and Trimmings	1.7%	0.7%	274,586
White Ledger Paper	1.6%	0.2%	268,245	Branches and Stumps	0.4%	0.2%	64,366
Other Office Paper	1.8%	0.3%	293,207	Manures	0.1%	0.1%	14,884
Magazines and Catalogs	0.7%	0.1%	115,761	Textiles	2.3%	0.6%	374,010
Phone Books and Directories	0.0%	0.0%	5,777	Carpet	0.8%	0.4%	134,528
Other Miscellaneous Paper - Compostable	0.5%	0.2%	77,929	Remainder/Composite Organic	6.0%	0.7%	997,614
Other Miscellaneous Paper - Other	3.0%	0.3%	493,669				,
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.5%	0.1%	74,856	Inerts and Other	13.3%		2,198,596
Remainder/Composite Paper - Compostable	10.1%	0.9%	1,673,592	Concrete	0.7%	0.4%	122,482
Remainder/Composite Paper - Other	3.1%	0.8%	519,135	Asphalt Paving	0.3%	0.3%	48,429
				Asphalt Roofing	0.4%	0.4%	61,718
Glass	2.0%		329,185	Clean Dimensional Lumber	0.7%	0.2%	113,949
Clear Glass Bottles and Containers - CRV	0.4%	0.1%	59,614	Clean Engineered Wood	0.6%	0.6%	107,458
Clear Glass Bottles and Containers - Non-CRV	0.5%	0.2%	83,583	Clean Pallets & Crates	4.4%	1.1%	735,005
Green Glass Bottles and Containers - CRV	0.1%	0.0%	23,255	Other Wood Waste	2.3%	0.7%	387,705
Green Glass Bottles and Containers - Non-CRV	0.2%	0.1%	38,278	Gypsum Board	0.6%	0.3%	99,223
Brown Glass Bottles and Containers - CRV	0.2%	0.1%	32,066	Rock, Soil and Fines	1.0%	0.5%	170,747
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	8,081	Remainder/Composite Inerts and Other	2.1%	0.8%	351,881
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	410				,
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	681	Household Hazardous Waste	0.2%		34,884
Flat Glass	0.2%	0.1%	32.008	Paint	0.1%	0.0%	9.094
Remainder/Composite Glass	0.3%	0.1%	51,210	Vehicle and Equipment Fluids	0.0%	0.0%	6,707
			- , -	Used Oil	0.0%	0.0%	343
Metal	3.6%		601,182	Batteries	0.0%	0.0%	2,268
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	7,259	Mercury-Containing Items - Not Lamps	0.0%	0.0%	<sup>′</sup> 10
Tin/Steel Cans - Other	0.4%	0.1%	74,236	Lamps - Fluorescent and LED	0.0%	0.0%	619
Major Appliances	0.0%	0.0%	5,239	Remainder/Composite Household Hazardous		0.1%	15,844
Used Oil Filters	0.0%	0.0%	1,742				,
Other Ferrous	0.9%	0.2%	153,526	Special Waste	1.3%		207,163
Aluminum Cans - CRV	0.1%	0.0%	23,594	Ash	0.2%	0.2%	30,397
Aluminum Cans - Non-CRV	0.0%	0.0%	3,903	Treated Medical Waste	0.0%	0.0%	5,849
Other Non-Ferrous	0.7%	0.3%	121,719	Bulky Items	0.9%	0.4%	153,016
Remainder/Composite Metal	1.3%	0.4%	209,964	Tires	0.0%	0.0%	3,884
				Remainder/Composite Special Waste	0.1%	0.0%	14,017
Electronics	0.8%		131,818				
Brown Goods	0.2%	0.2%	32,602	Mixed Residue	0.4%	0.2%	66,303
Computer-related Electronics	0.0%	0.0%	4,772				,
Other Small Consumer Electronics	0.0%	0.0%	3,877				
Video Display Devices - CRT	0.5%	0.4%	82,920				
Video Display Devices - Other	0.0%	0.0%	7,647				
Plactic	40.00/		0 4 9 4 4 9 9				
Plastic	12.9%	0.00/	2,131,488				
PETE Containers - CRV	0.3%	0.0%	55,693				
PETE Containers - Non-CRV	0.2%	0.0%	34,990				
HDPE Containers - CRV	0.1%	0.0%	10,090				
HDPE Containers - Non-CRV	0.4%	0.1%	66,584				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	3,835				
Miscellaneous Plastic Containers - Non-CRV	0.3%	0.0%	45,848				
Plastic Trash Bags	2.4%	0.1%	389,709				
Plastic Grocery and Other Merchandise Bags	0.2%	0.0%	32,264				
Non-Bag Commercial and Industrial Packaging Film	0.6%	0.2%	107,244				
Film Products	0.0%	0.0%	2,545				
Other Film - Flexible Plastic Pouches	0.1%	0.0%	10,156				
Other Film - Other	2.4%	0.4%	397,403				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.2%	0.1%	34,842				
Durable Plastic Items - Other	1.1%	0.2%	175,506	Totals	100%		16,536,664
Remainder/Composite Plastic	4.6%	0.7%	764,779	Sampled Streams	840		

#### Table 100. Detailed Composition – Curbside Recycle: Overall Commercial Sector

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	78.6%		1,573,662	Other Organic	3.7%		73.494
Uncoated Corrugated Cardboard	51.2%	4.2%	1,024,317	Food	1.7%	0.7%	34,272
Paper Bags	0.6%	0.2%	12,318	Leaves and Grass	0.0%	0.0%	416
Newspaper	1.9%	1.5%	38,121	Prunings and Trimmings	0.3%	0.3%	6,269
White Ledger Paper	6.4%	2.0%	127,555	Branches and Stumps	0.9%	1.1%	17,723
Other Office Paper	4.8%	2.0%	95,814	Manures	0.0%	0.0%	0
Magazines and Catalogs	3.7%	1.8%	74.131	Textiles	0.2%	0.1%	3.990
Phone Books and Directories	0.0%	0.0%	957	Carpet	0.2%	0.5%	6,989
Other Miscellaneous Paper - Compostable	2.8%	1.7%	56,269	Remainder/Composite Organic	0.3%	0.2%	3,835
Other Miscellaneous Paper - Other	5.3%	2.3%	105,709	Remainder/Composite Organic	0.270	0.270	5,055
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.1%	0.1%	2.457	Inerts and Other	1.7%		34,948
		0.1%	16,981	Concrete	0.0%	0.00/	34,940
Remainder/Composite Paper - Compostable	0.8%					0.0%	-
Remainder/Composite Paper - Other	1.0%	0.3%	19,033	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	50
Glass	5.2%		104,797	Clean Dimensional Lumber	0.5%	0.5%	10,668
Clear Glass Bottles and Containers - CRV	1.2%	0.6%	24,368	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	1.3%	0.6%	26,280	Clean Pallets & Crates	0.9%	0.9%	18,139
Green Glass Bottles and Containers - CRV	0.4%	0.2%	7,755	Other Wood Waste	0.0%	0.0%	176
Green Glass Bottles and Containers - Non-CRV	1.4%	0.9%	28,955	Gypsum Board	0.0%	0.0%	537
Brown Glass Bottles and Containers - CRV	0.5%	0.2%	10,234	Rock, Soil and Fines	0.0%	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.3%	0.2%	5,443	Remainder/Composite Inerts and Other	0.3%	0.2%	5,378
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0				
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	305	Household Hazardous Waste	0.0%		734
Flat Glass	0.0%	0.0%	6	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.1%	0.1%	1,450	Vehicle and Equipment Fluids	0.0%	0.0%	Ő
Remainder/Composite Class	0.170	0.170	1,400	Used Oil	0.0%	0.0%	404
Metal	1.6%		32,370	Batteries	0.0%	0.0%	266
Tin/Steel Cans - CRV Bimetal Containers	0.1%	0.1%	1,282	Mercury-Containing Items - Not Lamps	0.0%	0.0%	200
							37
Tin/Steel Cans - Other	0.8%	0.3%	15,584	Lamps - Fluorescent and LED	0.0%	0.0%	
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	27
Used Oil Filters	0.0%	0.0%	0				
Other Ferrous	0.3%	0.2%	5,409	Special Waste	0.1%		1,799
Aluminum Cans - CRV	0.2%	0.1%	3,709	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.1%	0.1%	1,672	Treated Medical Waste	0.0%	0.0%	347
Other Non-Ferrous	0.2%	0.2%	3,278	Bulky Items	0.0%	0.1%	715
Remainder/Composite Metal	0.1%	0.0%	1,436	Tires	0.0%	0.0%	40
				Remainder/Composite Special Waste	0.0%	0.0%	698
Electronics	0.1%		2,401				
Brown Goods	0.0%	0.0%	, 0	Mixed Residue	0.2%	0.2%	3.481
Computer-related Electronics	0.1%	0.1%	1,853				-,
Other Small Consumer Electronics	0.0%	0.0%	548				
Video Display Devices - CRT	0.0%	0.0%	0.0				
Video Display Devices - Other	0.0%	0.0%	0				
video Display Devices - Other	0.078	0.0 /0	0				
Plastic	8.7%		173,986				
		0.00/					
PETE Containers - CRV	0.6%	0.2%	12,446				
PETE Containers - Non-CRV	0.8%	0.5%	16,945				
HDPE Containers - CRV	0.0%	0.0%	849				
HDPE Containers - Non-CRV	0.9%	0.4%	18,427				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	95				
Miscellaneous Plastic Containers - Non-CRV	1.3%	1.4%	26,978				
Plastic Trash Bags	0.3%	0.1%	5,514				
Plastic Grocery and Other Merchandise Bags	0.4%	0.3%	7,256				
Non-Bag Commercial and Industrial Packaging Film	0.9%	0.9%	18,306				
Film Products	0.1%	0.1%	1,927				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	335				
Other Film - Other	0.0%	0.3%	15,070				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.8%	0.5%	16,595				
				Totala	4000/		2 004 674
Durable Plastic Items - Other	0.4%	0.3%	8,823	Totals	100%		2,001,671
Remainder/Composite Plastic	1.2%	0.5%	24,419	Sampled Streams	338		

#### Table 101. Detailed Composition – Curbside Organics: Overall Commercial Sector

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	1.1%		18,057	Other Organic	97.8%		1,666,288
Uncoated Corrugated Cardboard	0.2%	0.1%	3,198	Food	15.6%	2.3%	265,021
Paper Bags	0.0%	0.0%	39	Leaves and Grass	80.6%	3.6%	1,372,233
Newspaper	0.1%	0.1%	857	Prunings and Trimmings	1.7%	2.5%	28,412
White Ledger Paper	0.0%	0.0%	48	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	0.0%	0.1%	414	Manures	0.0%	0.0%	Ō
Magazines and Catalogs	0.0%	0.0%	0	Textiles	0.0%	0.1%	622
Phone Books and Directories	0.0%	0.0%	Ō	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	0.5%	0.2%	7,988	Remainder/Composite Organic	0.0%	0.0%	Ō
Other Miscellaneous Paper - Other	0.0%	0.0%	622	·····	,.		•
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0.0%	587	Inerts and Other	0.0%		310
Remainder/Composite Paper - Compostable	0.2%	0.3%	3,978	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.0%	0.0%	327	Asphalt Paving	0.0%	0.0%	0
	0.070	0.070	021	Asphalt Roofing	0.0%	0.0%	ŏ
Glass	0.8%		13,898	Clean Dimensional Lumber	0.0%	0.0%	ŏ
Clear Glass Bottles and Containers - CRV	0.0%	0.0%	424	Clean Engineered Wood	0.0%	0.0%	ŏ
Clear Glass Bottles and Containers - Non-CRV	0.3%	0.4%	4,628	Clean Pallets & Crates	0.0%	0.0%	ŏ
Green Glass Bottles and Containers - CRV	0.0%	0.0%	4,020	Other Wood Waste	0.0%	0.0%	Ő
Green Glass Bottles and Containers - Non-CRV	0.0%	0.8%	7,325	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	0.4%	0.0%	397	Rock, Soil and Fines	0.0%	0.0%	310
Brown Glass Bottles and Containers - CRV Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	1,125	Remainder/Composite Inerts and Other	0.0%	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.1%	0.1%	1,125	Remainder/Composite mens and Other	0.078	0.076	0
Other Colored Glass Bottles and Containers - CRV Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		14
	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	0		0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	0	Vehicle and Equipment Fluids			0
Matal	0.1%		4 4 4 7	Used Oil	0.0%	0.0%	
Metal		0.00/	1,117	Batteries	0.0%	0.0%	14
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	22	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.0%	0.0%	617	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0				-
Other Ferrous	0.0%	0.0%	55	Special Waste	0.0%		0
Aluminum Cans - CRV	0.0%	0.0%	84	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	0	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	334	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.0%	0.0%	4	Tires	0.0%	0.0%	0
				Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		13				
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	0				
Other Small Consumer Electronics	0.0%	0.0%	13				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Disatis	0.00/		0 705				
Plastic	0.2%	0.00/	<b>3,795</b> 432				
PETE Containers - CRV	0.0% 0.0%	0.0%	432				
PETE Containers - Non-CRV		0.0%					
HDPE Containers - CRV	0.0%	0.0%	0				
HDPE Containers - Non-CRV	0.0%	0.0%	78				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	0.0%	0.0%	298				
Plastic Trash Bags	0.0%	0.0%	188				
Plastic Grocery and Other Merchandise Bags	0.0%	0.0%	42				
Non-Bag Commercial and Industrial Packaging Film	0.0%	0.0%	138				
Film Products	0.0%	0.0%	25				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	3				
Other Film - Other	0.1%	0.0%	1,980				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0.0%	0				
Durable Plastic Items - Other	0.0%	0.0%	57	Totals	100%		1,703,492
Remainder/Composite Plastic	0.0%	0.0%	388	Sampled Streams	41		

#### Table 102. Detailed Composition – Other Diversion: Overall Commercial Sector

	Estimated			Estimated	Estimated
Material	Percent	Tons	Material	Percent	Tons
Paper	36.1%	2,052,884	Other Organic	25.6%	1,459,333
Uncoated Corrugated Cardboard	31.6%	1,800,463	Food	16.3%	928,965
Paper Bags	0.0%	296	Leaves and Grass	2.6%	146,752
Newspaper	0.0%	2,096	Prunings and Trimmings	6.3%	356,802
White Ledger Paper	0.6%	34,770	Branches and Stumps	0.3%	19,260
Other Office Paper	0.3%	16,999	Manures	0.0%	0
Magazines and Catalogs	0.0%	1,966	Textiles	0.1%	7,536
Phone Books and Directories	0.0%	140	Carpet	0.0%	17
Other Miscellaneous Paper - Compostable	0.1%	3,226	Remainder/Composite Organic	0.0%	2
Other Miscellaneous Paper - Other	3.1%	178,968			
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	265	Inerts and Other	5.1%	291,642
Remainder/Composite Paper - Compostable	0.2%	12,989	Concrete	0.0%	718
Remainder/Composite Paper - Other	0.0%	706	Asphalt Paving	0.0%	0
			Asphalt Roofing	0.0%	0
Glass	1.4%	80,370	Clean Dimensional Lumber	0.0%	2,830
Clear Glass Bottles and Containers - CRV	0.3%	14,338	Clean Engineered Wood	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.1%	6,802	Clean Pallets & Crates	4.4%	249,857
Green Glass Bottles and Containers - CRV	0.3%	16,152	Other Wood Waste	0.0%	434
Green Glass Bottles and Containers - Non-CRV	0.0%	39	Gypsum Board	0.0%	642
Brown Glass Bottles and Containers - CRV	0.7%	39,455	Rock, Soil and Fines	0.6%	32,886
Brown Glass Bottles and Containers - Non-CRV	0.1%	3,577	Remainder/Composite Inerts and Other	0.1%	4,275
Other Colored Glass Bottles and Containers - CRV	0.0%	0	•		,
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0	Household Hazardous Waste	0.0%	2,564
Flat Glass	0.0%	0	Paint	0.0%	0
Remainder/Composite Glass	0.0%	7	Vehicle and Equipment Fluids	0.0%	0
·····		-	Used Oil	0.0%	Ō
Metal	29.6%	1,685,302	Batteries	0.0%	2,530
Tin/Steel Cans - CRV Bimetal Containers	0.0%	863	Mercury-Containing Items - Not Lamps	0.0%	_,0
Tin/Steel Cans - Other	0.0%	2,399	Lamps - Fluorescent and LED	0.0%	35
Major Appliances	0.0%	_,0	Remainder/Composite Household Hazardous	0.0%	0
Used Oil Filters	0.0%	Õ		01070	•
Other Ferrous	22.9%	1,302,028	Special Waste	0.1%	4,665
Aluminum Cans - CRV	0.1%	7,278	Ash	0.0%	0
Aluminum Cans - Non-CRV	0.0%	154	Treated Medical Waste	0.0%	Õ
Other Non-Ferrous	4.4%	251,361	Bulky Items	0.1%	4,665
Remainder/Composite Metal	2.1%	121,218	Tires	0.0%	0
	2.170	121,210	Remainder/Composite Special Waste	0.0%	Ő
Electronics	1.2%	68,519	Remainder/Composite Opeolar Waste	0.070	0
Brown Goods	0.0%	1,689	Mixed Residue	0.0%	60
Computer-related Electronics	1.1%	63,018		01070	
Other Small Consumer Electronics	0.0%	137			
Video Display Devices - CRT	0.0%	2.372			
Video Display Devices - Other	0.0%	1,303			
	0.070	1,000			
Plastic	0.8%	45,584			
PETE Containers - CRV	0.2%	10,633			
PETE Containers - Non-CRV	0.1%	3,028			
HDPE Containers - CRV	0.0%	1.214			
HDPE Containers - Non-CRV	0.0%	550			
Miscellaneous Plastic Containers - CRV	0.0%	8			
Miscellaneous Plastic Containers - Non-CRV	0.1%	3.863			
Plastic Trash Bags	0.0%	935			
Plastic Trash Bags Plastic Grocery and Other Merchandise Bags	0.0%	933			
	0.0%	7,512			
Non-Bag Commercial and Industrial Packaging Film	0.1%	4.303			
Film Products		,			
Other Film - Flexible Plastic Pouches	0.0%	0			
Other Film - Other	0.0%	1,741			
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	2,179	Totala	100%	5 600 004
Durable Plastic Items - Other	0.1%	3,332	Totals Sampled Streams	100% 720	5,690,924
Remainder/Composite Plastic	0.1%	6,279	Sampled Streams otal 100% due to rounding.	120	

#### Table 103. Detailed Composition – Disposed: Arts, Entertainment, & Recreation

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	20.9%	-	173,415	Other Organic	52.9%	-	439,228
Uncoated Corrugated Cardboard	2.0%	0.5%	16,236	Food	33.6%	6.3%	278,639
Paper Bags	0.3%	0.1%	2,725	Leaves and Grass	5.8%	2.9%	48,015
Newspaper	1.6%	0.5%	13,325	Prunings and Trimmings	2.6%	1.3%	21,669
White Ledger Paper	0.6%	0.3%	5,186	Branches and Stumps	3.3%	3.8%	27,490
Other Office Paper	0.8%	0.3%	6,872	Manures	0.1%	0.1%	526
Magazines and Catalogs	0.5%	0.3%	4,205	Textiles	1.6%	0.4%	13,096
Phone Books and Directories	0.0%	0.0%	129	Carpet	1.0%	1.3%	8,546
Other Miscellaneous Paper - Compostable	0.4%	0.3%	3,346	Remainder/Composite Organic	5.0%	1.8%	41,247
Other Miscellaneous Paper - Other	2.8%	0.7%	23,273				
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.4%	0.4%	3,269	Inerts and Other	5.6%		46,731
Remainder/Composite Paper - Compostable	9.4%	2.1%	78,350	Concrete	1.7%	2.7%	14,400
Remainder/Composite Paper - Other	2.0%	0.7%	16,497	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	218
Glass	3.1%	a	26,100	Clean Dimensional Lumber	0.6%	1.0%	5,150
Clear Glass Bottles and Containers - CRV	0.8%	0.4%	6,960	Clean Engineered Wood	0.3%	0.5%	2,457
Clear Glass Bottles and Containers - Non-CRV	0.4%	0.2%	3,134	Clean Pallets & Crates	0.3%	0.4%	2,161
Green Glass Bottles and Containers - CRV	0.6%	0.5%	4,974	Other Wood Waste	0.5%	0.4%	3,886
Green Glass Bottles and Containers - Non-CRV	0.4%	0.2%	3,008	Gypsum Board	0.0%	0.0%	141
Brown Glass Bottles and Containers - CRV	0.7%	0.5%	5,785	Rock, Soil and Fines	0.9%	0.7%	7,844
Brown Glass Bottles and Containers - Non-CRV	0.2%	0.3%	1,472	Remainder/Composite Inerts and Other	1.3%	1.2%	10,476
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	31	Harrack and Harrandaria Weater	0.40/		<b>600</b>
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	31	Household Hazardous Waste	0.1%	0.00/	682
Flat Glass	0.0%	0.0%	24	Paint	0.0%	0.0%	158
Remainder/Composite Glass	0.1%	0.1%	681	Vehicle and Equipment Fluids	0.0%	0.0% 0.0%	0 57
Metal	1.8%		15,055	Used Oil	0.0%	0.0%	379
Tin/Steel Cans - CRV Bimetal Containers	0.1%	0.1%	652	Batteries Mercury-Containing Items - Not Lamps	0.0% 0.0%	0.1%	3/9
Tin/Steel Cans - Other	0.1%	0.1%	4,772	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.2 %	4,772	Remainder/Composite Household Hazardous		0.0%	88
Used Oil Filters	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	00
Other Ferrous	0.0%	0.0%	1,937	Special Waste	1.4%		12,017
Aluminum Cans - CRV	0.2%	0.1%	2,207	Ash	0.8%	1.1%	6,928
Aluminum Cans - Non-CRV	0.0%	0.0%	198	Treated Medical Waste	0.0%	0.0%	0,520
Other Non-Ferrous	0.2%	0.1%	1,634	Bulky Items	0.6%	0.8%	5,034
Remainder/Composite Metal	0.4%	0.2%	3,655	Tires	0.0%	0.0%	55
	0.170	0.270	0,000	Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		202		01070	0.070	•
Brown Goods	0.0%	0.0%	171	Mixed Residue	0.2%	0.3%	1,844
Computer-related Electronics	0.0%	0.0%	31				-,
Other Small Consumer Electronics	0.0%	0.0%	0				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	Ō				
Plastic	13.8%		114,388				
PETE Containers - CRV	0.6%	0.2%	5,106				
PETE Containers - Non-CRV	0.2%	0.0%	1,255				
HDPE Containers - CRV	0.1%	0.0%	444				
HDPE Containers - Non-CRV	0.2%	0.1%	1,836				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	328				
Miscellaneous Plastic Containers - Non-CRV	0.3%	0.1%	2,254				
Plastic Trash Bags	2.5%	0.5%	21,065				
Plastic Grocery and Other Merchandise Bags	0.2%	0.1%	1,419				
Non-Bag Commercial and Industrial Packaging Film	0.4%	0.4%	3,466				
Film Products	0.0%	0.0%	125				
Other Film - Flexible Plastic Pouches	0.1%	0.0%	837				
Other Film - Other	2.0%	0.5%	16,952				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.2%	0.1%	1,796				
Durable Plastic Items - Other	1.0%	0.8%	8,023	Totals	100%		829,661
Remainder/Composite Plastic Confidence intervals calculated at the 90% confidence level. Percent	6.0%	2.6%	49,479	Sampled Streams	54		

# Table 104. Detailed Composition – Curbside Recycle: Arts, Entertainment, & Recreation

	Estimated	_	Estimated		Estimated	_	Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	67.1%		36,146	Other Organic	2.8%		1,508
Uncoated Corrugated Cardboard	52.4%	22.4%	28,249	Food	1.8%	1.8%	951
Paper Bags	0.2%	0.2%	105	Leaves and Grass	0.0%	0.0%	0
Newspaper	0.7%	0.8%	351	Prunings and Trimmings	0.1%	0.1%	40
White Ledger Paper	2.1%	1.5%	1,120	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	2.6%	2.9%	1,403	Manures	0.0%	0.0%	0
Magazines and Catalogs	2.1%	2.2%	1,147	Textiles	0.5%	0.7%	289
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	1.0%	0.9%	514	Remainder/Composite Organic	0.4%	0.7%	228
Other Miscellaneous Paper - Other	2.6%	1.3%	1,410	·			
Remainder/Composite Paper - Rigid Food & Beverage Cartons		0.2%	76	Inerts and Other	0.3%		176
Remainder/Composite Paper - Compostable	3.1%	3.7%	1,680	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.2%	0.2%	92	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	19.2%		10,334	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	1.4%	1.1%	744	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	4.0%	5.5%	2,176	Clean Pallets & Crates	0.0%	0.0%	0
Green Glass Bottles and Containers - CRV	0.7%	0.9%	362	Other Wood Waste	0.3%	0.6%	176
Green Glass Bottles and Containers - Non-CRV	9.3%	12.8%	5,030	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	3.3%	2.4%	1,780	Rock, Soil and Fines	0.0%	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.4%	0.4%	242	Remainder/Composite Inerts and Other	0.0%	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%		0				
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	0	Vehicle and Equipment Fluids	0.0%	0.0%	0
				Used Oil	0.0%	0.0%	0
Metal	2.5%		1,366	Batteries	0.0%	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	6	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	1.8%	1.5%	986	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0				
Other Ferrous	0.0%	0.0%	0	Special Waste	1.3%		715
Aluminum Cans - CRV	0.4%	0.4%	223	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.2%		125	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.1%	26	Bulky Items	1.3%	2.3%	715
Remainder/Composite Metal	0.0%	0.0%	0	Tires	0.0%	0.0%	0
				Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		0				-
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%		0				
Other Small Consumer Electronics	0.0%	0.0%	0				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Plastic	6.7%		3.621				
PETE Containers - CRV	2.2%	2.2%	1.186				
PETE Containers - CRV PETE Containers - Non-CRV	0.2%		1,100				
HDPE Containers - CRV	0.2%	0.5%	226				
HDPE Containers - CRV HDPE Containers - Non-CRV	0.4%	0.5%	366				
Miscellaneous Plastic Containers - CRV	0.7%	0.0%	89				
Miscellaneous Plastic Containers - CRV Miscellaneous Plastic Containers - Non-CRV	0.2%	0.5%	262				
	0.5%	1.0%	465				
Plastic Trash Bags Plastic Grocery and Other Merchandise Bags	0.9%		465				
Non-Bag Commercial and Industrial Packaging Film	0.2%	0.3%	26				
Film Products	0.0%		26 99				
	0.2%		99 53				
Other Film - Flexible Plastic Pouches	0.1%		53 431				
Other Film - Other		0.9%	431				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.1% 0.0%	0.1%	35	Totals	100%		53,865
Durable Plastic Items - Other Remainder/Composite Plastic	0.0%	0.0%	140	Sampled Streams	100%		53,005
Nemainuei/composite Flastic			-	Sampled Streams	17		

# Table 105. Detailed Composition – Curbside Organics: Arts, Entertainment, & Recreation

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	0.0%		0	Other Organic	100.0%		8,439
Uncoated Corrugated Cardboard	0.0%	0.0%	0	Food	0.0%	0.0%	0
Paper Bags	0.0%	0.0%	0	Leaves and Grass	0.0%	0.0%	0
Newspaper	0.0%	0.0%	0	Prunings and Trimmings	100.0%	0.0%	8,439
White Ledger Paper	0.0%	0.0%	0	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	0.0%	0.0%	0	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.0%	0.0%	0	Textiles	0.0%	0.0%	0
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	0.0%	0.0%	0	Remainder/Composite Organic	0.0%	0.0%	0
Other Miscellaneous Paper - Other	0.0%	0.0%	0				
Remainder/Composite Paper - Rigid Food & Beverage Cartons		0.0%	0	Inerts and Other	0.0%		0
Remainder/Composite Paper - Compostable	0.0%	0.0%	0	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.0%	0.0%	0	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	0.0%		0	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	0.0%	0.0%	0	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Clean Pallets & Crates	0.0%	0.0%	0
Green Glass Bottles and Containers - CRV	0.0%	0.0%	0	Other Wood Waste	0.0%	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	0	Rock, Soil and Fines	0.0%	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0				
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	0	Vehicle and Equipment Fluids	0.0%	0.0%	0
				Used Oil	0.0%	0.0%	0
Metal	0.0%		0	Batteries	0.0%	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.0%		0	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.0%		0	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0				
Other Ferrous	0.0%	0.0%	0	Special Waste	0.0%		0
Aluminum Cans - CRV	0.0%	0.0%	0	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	0	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	0	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.0%	0.0%	0	Tires	0.0%	0.0%	0
			-	Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		0				-
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	0				
Other Small Consumer Electronics	0.0%		0				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Plastic	0.0%		0				
PETE Containers - CRV	0.0%	0.0%	0				
PETE Containers - ORV PETE Containers - Non-CRV	0.0%		0				
HDPE Containers - CRV	0.0%	0.0%	0				
HDPE Containers - CRV HDPE Containers - Non-CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV			0				
Plastic Trash Bags	0.0% 0.0%	0.0% 0.0%	0				
Plastic Grocery and Other Merchandise Bags	0.0%	0.0%	0				
Non-Bag Commercial and Industrial Packaging Film			0				
Film Products	0.0%	0.0%	•				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	0				
Other Film - Other	0.0% 0.0%	0.0%	0				
Durable Plastic Items - #2 and #5 Bulky Rigids		0.0%	0	Totala	100%		0 400
Durable Plastic Items - Other	0.0% 0.0%	0.0% 0.0%	0	Totals Sampled Streams	100%		8,439
Remainder/Composite Plastic Confidence intervals calculated at the 90% confidence level. Percent			-	•			

# Table 106. Detailed Composition – Other Diversion: Arts, Entertainment, & Recreation

	Estimated	Estimated		Estimated	Estimated
Material	Percent	Tons	Material	Percent	Tons
Paper	1.2%	1,286	Other Organic	84.2%	89,053
Uncoated Corrugated Cardboard	0.4%	449	Food	23.6%	24,962
Paper Bags	0.0%	0	Leaves and Grass	22.6%	23,930
Newspaper	0.0%	Ō	Prunings and Trimmings	19.9%	21.061
White Ledger Paper	0.0%	Ō	Branches and Stumps	18.1%	19,100
Other Office Paper	0.0%	Ō	Manures	0.0%	0
Magazines and Catalogs	0.0%	Ō	Textiles	0.0%	0
Phone Books and Directories	0.0%	Ō	Carpet	0.0%	0
Other Miscellaneous Paper - Compostable	0.7%	750	Remainder/Composite Organic	0.0%	0
Other Miscellaneous Paper - Other	0.0%	0	riemander, composito organio	0.070	•
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.1%	87	Inerts and Other	0.0%	0
Remainder/Composite Paper - Compostable	0.0%	0	Concrete	0.0%	Õ
Remainder/Composite Paper - Other	0.0%	õ	Asphalt Paving	0.0%	õ
	0.070	•	Asphalt Roofing	0.0%	õ
Glass	5.0%	5,262	Clean Dimensional Lumber	0.0%	Ő
Clear Glass Bottles and Containers - CRV	0.1%	79	Clean Engineered Wood	0.0%	Ő
Clear Glass Bottles and Containers - Non-CRV	0.2%	185	Clean Pallets & Crates	0.0%	ŏ
Green Glass Bottles and Containers - CRV	0.0%	8	Other Wood Waste	0.0%	õ
Green Glass Bottles and Containers - Non-CRV	0.0%	26	Gypsum Board	0.0%	ŏ
Brown Glass Bottles and Containers - CRV	4.7%	4,958	Rock, Soil and Fines	0.0%	ŏ
Brown Glass Bottles and Containers - Non-CRV	0.0%	4,000	Remainder/Composite Inerts and Other	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0	Remainder/Composite mens and Other	0.070	0
Other Colored Glass Bottles and Containers - CRV Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0	Household Hazardous Waste	0.5%	520
Flat Glass	0.0%	0	Paint	0.0%	<b>J20</b>
Remainder/Composite Glass	0.0%	0	Vehicle and Equipment Fluids	0.0%	0
Remainder/Composite Glass	0.076	0	Used Oil	0.0%	0
Metal	5.9%	6,211	Batteries	0.0%	520
	0.0%	0,211		0.5%	520
Tin/Steel Cans - CRV Bimetal Containers Tin/Steel Cans - Other	0.0%	243	Mercury-Containing Items - Not Lamps	0.0%	0
	0.2%	243	Lamps - Fluorescent and LED	0.0%	0
Major Appliances Used Oil Filters	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0
Other Ferrous	5.2%	5,538	Special Waste	0.0%	0
	0.2%	5,556	Ash	0.0%	0
Aluminum Cans - CRV	0.2%	0		0.0%	0
Aluminum Cans - Non-CRV Other Non-Ferrous	0.0%	258	Treated Medical Waste Bulky Items	0.0%	0
Remainder/Composite Metal	0.2%	256	Tires	0.0%	0
Remainder/Composite Metai	0.0%	0	Remainder/Composite Special Waste	0.0%	0
Electronics	1.6%	1.660	Remainder/Composite Special Waste	0.076	0
	0.0%		Mixed Residue	0.0%	0
Brown Goods	1.4%	0 1,514	wixed Residue	0.0%	U
Computer-related Electronics	0.0%	1,514			
Other Small Consumer Electronics Video Display Devices - CRT	0.0%	146			
Video Display Devices - Other	0.1%	140			
video Display Devices - Other	0.076	0			
Plastic	1.6%	1.740			
PETE Containers - CRV	0.5%	490			
PETE Containers - Non-CRV	0.0%	430			
HDPE Containers - CRV	0.0%	39			
HDPE Containers - Non-CRV	0.0%	2			
Miscellaneous Plastic Containers - CRV	0.0%	2			
	0.0%	201			
Miscellaneous Plastic Containers - Non-CRV	0.2%	201			
Plastic Trash Bags Plastic Grocery and Other Merchandise Bags	0.0%	0			
Non-Bag Commercial and Industrial Packaging Film	0.0%	0			
Film Products	0.0%	13			
	0.0%	0			
Other Film - Flexible Plastic Pouches	0.0%	927			
Other Film - Other	0.9%	927			
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0	Totals	100%	105 722
Durable Plastic Items - Other Remainder/Composite Plastic	0.0%	67	Sampled Streams	31	105,732
Confidence intervals calculated at the 90% confidence level. Percentac		-		JI	

#### Table 107. Detailed Composition – Disposed: Durable Wholesale & Trucking

Madanial	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	25.8%	4 00/	98,563	Other Organic	18.3%	4 4 0/	<b>69,760</b>
Uncoated Corrugated Cardboard	4.8% 0.4%	1.8% 0.3%	18,334	Food	10.0% 1.9%	4.1% 1.2%	38,192
Paper Bags	0.4%	0.3%	1,582 3,944	Leaves and Grass	0.7%	0.6%	7,138 2.771
Newspaper	1.0%	0.4%	7,253	Prunings and Trimmings Branches and Stumps	0.7%	1.1%	2,771
White Ledger Paper Other Office Paper	1.5%	0.5%	6,424	Manures	0.7%	0.0%	2,399
Magazines and Catalogs	0.5%	0.3%	2,066	Textiles	1.4%	0.0%	5,356
Phone Books and Directories	0.0%	0.3%	2,000	Carpet	0.3%	0.3%	1,320
Other Miscellaneous Paper - Compostable	0.5%	0.5%	1,968	Remainder/Composite Organic	3.2%	1.3%	12,384
Other Miscellaneous Paper - Other	3.9%	2.2%	15,057	Remainder/Composite Organic	0.270	1.070	12,004
Remainder/Composite Paper - Rigid Food & Beverage Cartons		0.0%	276	Inerts and Other	32.7%		124,766
Remainder/Composite Paper - Compostable	6.5%	1.3%	24,689	Concrete	1.7%	1.8%	6,515
Remainder/Composite Paper - Other	4.4%	1.3%	16,697	Asphalt Paving	0.0%	0.0%	0
·····				Asphalt Roofing	1.6%	2.7%	6,171
Glass	1.6%		6,065	Clean Dimensional Lumber	4.6%	2.9%	17,547
Clear Glass Bottles and Containers - CRV	0.1%	0.1%	368	Clean Engineered Wood	2.3%	1.7%	8,688
Clear Glass Bottles and Containers - Non-CRV	0.1%	0.1%	470	Clean Pallets & Crates	13.3%	4.9%	50,937
Green Glass Bottles and Containers - CRV	0.0%	0.0%	5	Other Wood Waste	3.0%	1.7%	11,496
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	95	Gypsum Board	0.6%	1.0%	2,418
Brown Glass Bottles and Containers - CRV	0.2%	0.1%	625	Rock, Soil and Fines	0.6%	0.6%	2,108
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	13	Remainder/Composite Inerts and Other	4.9%	3.8%	18,887
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0	• • • • • • • • • • • • • • • • • • • •			-,
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		146
Flat Glass	1.1%	1.9%	4,343	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.1%	146	Vehicle and Equipment Fluids	0.0%	0.0%	0
				Used Oil	0.0%	0.0%	0
Metal	4.5%		17,117	Batteries	0.0%	0.0%	72
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	85	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.1%	0.0%	341	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.3%	0.5%	1,145	Remainder/Composite Household Hazardous	0.0%	0.0%	74
Used Oil Filters	0.1%	0.1%	208				
Other Ferrous	1.0%	0.7%	3,729	Special Waste	2.5%		9,622
Aluminum Cans - CRV	0.1%	0.0%	334	Ash	0.2%	0.3%	582
Aluminum Cans - Non-CRV	0.0%	0.0%	17	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.9%	0.6%	3,560	Bulky Items	2.4%	2.2%	9,040
Remainder/Composite Metal	2.0%	1.3%	7,699	Tires	0.0%	0.0%	0
				Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.7%		2,617				
Brown Goods	0.5%	0.6%	1,840	Mixed Residue	0.2%	0.3%	754
Computer-related Electronics	0.0%	0.0%	72				
Other Small Consumer Electronics	0.2%	0.3%	705				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Plastic	13.7%		52,355				
PETE Containers - CRV	0.2%	0.0%	575				
PETE Containers - Non-CRV	0.1%	0.0%	262				
HDPE Containers - CRV	0.0%	0.0%	76				
HDPE Containers - Non-CRV	0.1%	0.1%	536				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	97				
Miscellaneous Plastic Containers - Non-CRV	0.3%	0.2%	1,005				
Plastic Trash Bags	2.5%	2.0%	9.624				
Plastic Grocery and Other Merchandise Bags	0.2%	0.1%	617				
Non-Bag Commercial and Industrial Packaging Film	1.4%	0.4%	5,307				
Film Products	0.0%	0.0%	27				
Other Film - Flexible Plastic Pouches	0.3%	0.3%	971				
Other Film - Other	1.6%	0.7%	5,929				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.1%	0.2%	505				
Durable Plastic Items - Other	1.6%	1.3%	6,263	Totals	100%		381,767

# Table 108. Detailed Composition – Curbside Recycle: Durable Wholesale & Trucking

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	91.3%		97,030	Other Organic	0.2%		256
Uncoated Corrugated Cardboard		30.9%	71,750	Food	0.2%	0.2%	217
Paper Bags	1.1%	1.8%	1,161	Leaves and Grass	0.0%	0.0%	0
Newspaper	0.2%	0.3%	225	Prunings and Trimmings	0.0%	0.0%	õ
White Ledger Paper	7.5%	9.9%	8.004	Branches and Stumps	0.0%	0.0%	Ō
Other Office Paper	6.4%	7.8%	6,790	Manures	0.0%	0.0%	Ō
Magazines and Catalogs	1.8%	2.3%	1,926	Textiles	0.0%	0.1%	39
Phone Books and Directories	0.2%	0.3%	188	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	0.7%	1.1%	760	Remainder/Composite Organic	0.0%	0.0%	0
Other Miscellaneous Paper - Other	0.6%	0.8%	649	· · · · · · · · · · · · · · · · · · ·			-
Remainder/Composite Paper - Rigid Food & Beverage Cartons		0.0%	0	Inerts and Other	0.0%		0
Remainder/Composite Paper - Compostable	3.1%	4.4%	3.267	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	2.2%	2.4%	2,310	Asphalt Paving	0.0%	0.0%	0
			_,	Asphalt Roofing	0.0%	0.0%	Ō
Glass	0.5%		500	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	0.3%	0.4%	325	Clean Engineered Wood	0.0%	0.0%	õ
Clear Glass Bottles and Containers - Non-CRV	0.1%	0.1%	60	Clean Pallets & Crates	0.0%	0.0%	õ
Green Glass Bottles and Containers - CRV	0.1%	0.1%	64	Other Wood Waste	0.0%	0.0%	õ
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Gypsum Board	0.0%	0.0%	õ
Brown Glass Bottles and Containers - CRV	0.0%	0.1%	52	Rock, Soil and Fines	0.0%	0.0%	õ
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0.0%	Õ
Other Colored Glass Bottles and Containers - CRV	0.0%		ŏ	Remainder/Composite ments and Other	0.070	0.070	0
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Ő	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%	0.0%	ŏ	Paint	0.0%	0.0%	Ő
Remainder/Composite Glass	0.0%	0.0%	ŏ	Vehicle and Equipment Fluids	0.0%	0.0%	Ő
Remainder/oomposite Glass	0.070	0.070	0	Used Oil	0.0%	0.0%	Ő
Metal	1.0%		1,029	Batteries	0.0%	0.0%	0 0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	36	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.2%	0.2%	166	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.2%	0.2%	0	Remainder/Composite Household Hazardous		0.0%	0
Used Oil Filters	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.070	0.070	0
Other Ferrous	0.3%	0.5%	344	Special Waste	0.0%		0
Aluminum Cans - CRV	0.3%		81	Ash	0.0%	0.0%	0
Aluminum Cans - CRV Aluminum Cans - Non-CRV	0.1%	0.1%	45	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.2%	156	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.1%	0.2%	200	Tires	0.0%	0.0%	0
Remainder/Composite Metal	0.270	0.570	200	Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		0	Remainder/Composite Opecial Waste	0.070	0.070	0
Brown Goods	0.0%	0.0%	Ō	Mixed Residue	2.1%	4.0%	2,238
Computer-related Electronics	0.0%		õ		,		_,
Other Small Consumer Electronics	0.0%	0.0%	õ				
Video Display Devices - CRT	0.0%	0.0%	õ				
Video Display Devices - Other	0.0%	0.0%	Ō				
Plastic	4.9%		5,200				
PETE Containers - CRV	0.3%	0.5%	369				
PETE Containers - Non-CRV	0.3%	0.3%	272				
HDPE Containers - CRV	0.0%	0.1%	39				
HDPE Containers - Non-CRV	0.2%	0.2%	201				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	0.2%	0.3%	190				
Plastic Trash Bags	0.2%	0.3%	211				
Plastic Grocery and Other Merchandise Bags	0.0%	0.0%	19				
Non-Bag Commercial and Industrial Packaging Film	2.8%	4.4%	2,952				
Film Products	0.0%	0.0%	2,002				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	1				
Other Film - Other	0.4%	0.5%	410				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0.0%	0				
Durable Plastic Items - Other	0.4%	0.7%	422	Totals	100%		106,253
	0.1%	0.1%	105	Sampled Streams	14		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

# Table 109. Detailed Composition – Curbside Organics: Durable Wholesale & Trucking

None of the selected Durable Wholesale & Trucking sites had a Curbside Organics stream.

#### Table 110. Detailed Composition – Other Diversion: Durable Wholesale & Trucking

	Estimated	Estimated		Estimated	Estimated
Material	Percent	Tons	Material	Percent	Tons
Paper	22.1%	316,261	Other Organic	9.3%	132,560
Uncoated Corrugated Cardboard	21.6%	309,537	Food	0.0%	355
Paper Bags	0.0%	88	Leaves and Grass	0.0%	0
Newspaper	0.0%	715	Prunings and Trimmings	9.2%	132,188
White Ledger Paper	0.0%	416	Branches and Stumps	0.0%	0
Other Office Paper	0.2%	2,925	Manures	0.0%	0
Magazines and Catalogs	0.0%	463	Textiles	0.0%	0
Phone Books and Directories	0.0%	140	Carpet	0.0%	17
Other Miscellaneous Paper - Compostable	0.0%	162	Remainder/Composite Organic	0.0%	0
Other Miscellaneous Paper - Other	0.1%	1.535	rtemainder/composite organie	0.070	Ũ
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	18	Inerts and Other	0.9%	12,894
Remainder/Composite Paper - Compostable	0.0%	232	Concrete	0.0%	,004
Remainder/Composite Paper - Other	0.0%	32	Asphalt Paving	0.0%	0
Remainder/Composite Paper - Other	0.076	52	Asphalt Paving Asphalt Roofing	0.0%	0
Glass	0.0%	143		0.0%	0
	0.0%	143	Clean Dimensional Lumber	0.0%	0
Clear Glass Bottles and Containers - CRV		0	Clean Engineered Wood		-
Clear Glass Bottles and Containers - Non-CRV	0.0%	-	Clean Pallets & Crates	0.8%	11,211
Green Glass Bottles and Containers - CRV	0.0%	134	Other Wood Waste	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.0%	0	Gypsum Board	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	3	Rock, Soil and Fines	0.1%	1,683
Brown Glass Bottles and Containers - Non-CRV	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0			
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0	Household Hazardous Waste	0.0%	40
Flat Glass	0.0%	0	Paint	0.0%	0
Remainder/Composite Glass	0.0%	0	Vehicle and Equipment Fluids	0.0%	0
			Used Oil	0.0%	0
Metal	64.1%	918,341	Batteries	0.0%	40
Tin/Steel Cans - CRV Bimetal Containers	0.0%	18	Mercury-Containing Items - Not Lamps	0.0%	0
Tin/Steel Cans - Other	0.0%	538	Lamps - Fluorescent and LED	0.0%	0
Major Appliances	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0
Used Oil Filters	0.0%	0	·		
Other Ferrous	55.5%	795,354	Special Waste	0.0%	0
Aluminum Cans - CRV	0.0%	85	Ash	0.0%	Ō
Aluminum Cans - Non-CRV	0.0%	18	Treated Medical Waste	0.0%	Ō
Other Non-Ferrous	0.6%	8,568	Bulky Items	0.0%	Õ
Remainder/Composite Metal	7.9%	113,760	Tires	0.0%	Ő
	1.070	110,100	Remainder/Composite Special Waste	0.0%	Ő
Electronics	3.6%	51,021	Remainder/Composite Opecial Waste	0.070	0
Brown Goods	0.0%	31,021	Mixed Residue	0.0%	0
Computer-related Electronics	3.5%	50,785	Wixed Residue	0.078	Ŭ
	0.0%	50,785			
Other Small Consumer Electronics		-			
Video Display Devices - CRT	0.0%	0			
Video Display Devices - Other	0.0%	233			
Plastic	0.1%	1.291			
	0.0%				
PETE Containers - CRV		563 158			
PETE Containers - Non-CRV	0.0%				
HDPE Containers - CRV	0.0%	16			
HDPE Containers - Non-CRV	0.0%	367			
Miscellaneous Plastic Containers - CRV	0.0%	6			
Miscellaneous Plastic Containers - Non-CRV	0.0%	40			
Plastic Trash Bags	0.0%	0			
Plastic Grocery and Other Merchandise Bags	0.0%	5			
Non-Bag Commercial and Industrial Packaging Film	0.0%	0			
Film Products	0.0%	0			
Other Film - Flexible Plastic Pouches	0.0%	0			
Other Film - Other	0.0%	63			
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0			
Durable Plastic Items - Other	0.0%	Ō	Totals	100%	1,432,550
		73	Sampled Streams	64	

#### Table 111. Detailed Composition – Disposed: Education

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	33.3%		187,070	Other Organic	48.1%		270,695
Uncoated Corrugated Cardboard	1.2%	0.4%	6,936	Food	33.8%	4.1%	189,957
Paper Bags	0.3%	0.1%	1,797	Leaves and Grass	3.9%	2.4%	22,109
Newspaper	1.2%	0.4%	6,930	Prunings and Trimmings	0.3%	0.3%	1,663
White Ledger Paper	3.5%	0.8%	19,892	Branches and Stumps	1.2%	1.4%	6,479
Other Office Paper	3.7%	0.8%	20,791	Manures	0.0%	0.0%	0
Magazines and Catalogs	1.1%	0.4%	5,974	Textiles	1.9%	0.6%	10,550
Phone Books and Directories	0.0%	0.0%	0	Carpet	3.0%	2.5%	16,788
Other Miscellaneous Paper - Compostable	0.4%	0.3%	2,036	Remainder/Composite Organic	4.1%	1.1%	23,150
Other Miscellaneous Paper - Other	4.0%	1.0%	22,709				
Remainder/Composite Paper - Rigid Food & Beverage Cartons	2.5%	0.6%	14,024	Inerts and Other	2.8%		15,923
Remainder/Composite Paper - Compostable	12.8%	2.0%	71,730	Concrete	0.2%	0.4%	1,219
Remainder/Composite Paper - Other	2.5%	0.8%	14,251	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	106
Glass	0.5%		2,778	Clean Dimensional Lumber	0.1%	0.1%	561
Clear Glass Bottles and Containers - CRV	0.2%	0.1%	1,083	Clean Engineered Wood	0.1%	0.2%	689
Clear Glass Bottles and Containers - Non-CRV	0.2%	0.1%	913	Clean Pallets & Crates	0.4%	0.7%	2,398
Green Glass Bottles and Containers - CRV	0.0%	0.0%	76	Other Wood Waste	1.3%	0.9%	7,516
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	58	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	0	Rock, Soil and Fines	0.2%	0.2%	1,095
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Remainder/Composite Inerts and Other	0.4%	0.3%	2,339
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0	Heuseheld Hezerdeus Weste	0.29/		4 969
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	-	Household Hazardous Waste	0.2%	0.00/	1,268
Flat Glass	0.0%	0.0%	0	Paint	0.0% 0.0%	0.0% 0.0%	62 102
Remainder/Composite Glass	0.1%	0.1%	649	Vehicle and Equipment Fluids	0.0%	0.0%	102
Metal	1.6%		9,132	Used Oil Batteries	0.0%	0.0%	74
	0.0%	0.0%	<b>9,132</b> 45		0.0%	0.0%	10
Tin/Steel Cans - CRV Bimetal Containers Tin/Steel Cans - Other	0.0%	0.0%	2,338	Mercury-Containing Items - Not Lamps Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.4%	0.2 %	2,330	Remainder/Composite Household Hazardous		0.0%	1,020
Used Oil Filters	0.0%	0.0%	84	Remainder/Composite Household Hazardous	0.270	0.270	1,020
Other Ferrous	0.0%	0.3%	2,245	Special Waste	0.0%		185
Aluminum Cans - CRV	0.4%	0.0%	592	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.1%	0.0%	332	Treated Medical Waste	0.0%	0.0%	õ
Other Non-Ferrous	0.1%	0.0%	1,285	Bulky Items	0.0%	0.0%	ŏ
Remainder/Composite Metal	0.4%	0.3%	2,211	Tires	0.0%	0.0%	Ő
	011/0	0.070	_,	Remainder/Composite Special Waste	0.0%	0.1%	185
Electronics	0.0%		269				
Brown Goods	0.0%	0.0%	168	Mixed Residue	0.2%	0.2%	1,404
Computer-related Electronics	0.0%	0.0%	102				-
Other Small Consumer Electronics	0.0%	0.0%	0				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Plastic	13.1%		73,717				
PETE Containers - CRV	0.4%	0.1%	2,504				
PETE Containers - Non-CRV	0.3%	0.1%	1,604				
HDPE Containers - CRV	0.0%	0.0%	265				
HDPE Containers - Non-CRV	0.2%	0.1%	1,247				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	93				
Miscellaneous Plastic Containers - Non-CRV	0.3%	0.1%	1,913				
Plastic Trash Bags	3.2%	0.3%	18,121				
Plastic Grocery and Other Merchandise Bags	0.2%	0.0%	892				
Non-Bag Commercial and Industrial Packaging Film	0.1%	0.1%	783				
Film Products	0.0%	0.0%	1 225				
Other Film - Flexible Plastic Pouches	0.2%	0.1%	1,335				
Other Film - Other	1.7%	0.2%	9,656 320				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.1%	0.1%		Totala	100%		560 AA0
Durable Plastic Items - Other Remainder/Composite Plastic	0.9% 5.3%	0.5% 0.8%	4,953 30,031	Totals Sampled Streams	100%		562,442
Remainder/Composite Plastic		0.0 /0	30,031	Sampled Streams	51		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

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#### Table 112. Detailed Composition – Curbside Recycle: Education

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	85.4%		54,586	Other Organic	4.9%		3,105
Uncoated Corrugated Cardboard		12.4%	17,663	Food	0.4%	0.4%	235
Paper Bags	0.5%	0.3%	294	Leaves and Grass	0.0%	0.0%	0
Newspaper	2.1%	1.6%	1,366	Prunings and Trimmings	4.2%	5.3%	2,715
White Ledger Paper	22.4%	8.3%	14,336	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	10.3%	4.2%	6,566	Manures	0.0%	0.0%	0
Magazines and Catalogs	6.2%	3.5%	3,952	Textiles	0.0%	0.0%	0
Phone Books and Directories	0.5%	0.7%	317	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	6.5%	4.0%	4,146	Remainder/Composite Organic	0.2%	0.3%	155
Other Miscellaneous Paper - Other	7.0%	7.1%	4,454				
Remainder/Composite Paper - Rigid Food & Beverage Cartons		0.0%	3	Inerts and Other	0.4%		249
Remainder/Composite Paper - Compostable	0.7%	0.9%	471	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	1.6%	1.1%	1,018	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	0.3%		219	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	0.0%	0.0%	0	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.2%	0.2%	109	Clean Pallets & Crates	0.0%	0.0%	0
Green Glass Bottles and Containers - CRV	0.2%	0.0%	103	Other Wood Waste	0.0%	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	0	Rock, Soil and Fines	0.0%	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Remainder/Composite Inerts and Other	0.4%	0.0%	249
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0				_
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	7	Vehicle and Equipment Fluids	0.0%	0.0%	0
Martal	0.00/		504	Used Oil	0.0%	0.0%	0
Metal	0.8%	0.40/	501	Batteries	0.0%	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.1%	0.1%	53	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.0%	0.0%	13	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	-	Creation Manufa	0.00/		0
Other Ferrous	0.1%	0.1%	54	Special Waste	0.0%	0.00/	
Aluminum Cans - CRV	0.6% 0.0%	0.7% 0.0%	371 0	Ash	0.0% 0.0%	0.0% 0.0%	0 0
Aluminum Cans - Non-CRV	0.0%	0.0%	0	Treated Medical Waste Bulky Items	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	10	Tires	0.0%	0.0%	0
Remainder/Composite Metal	0.0%	0.0%	10	Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	1.8%		1.123	Remainder/Composite Special Waste	0.0%	0.0%	0
Brown Goods	0.0%	0.0%	1,123	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	1.8%	2.8%	1.123	Mixed Residue	0.078	0.070	U
Other Small Consumer Electronics	0.0%	0.0%	1,125				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Video Display Devices - Other	0.070	0.070	0				
Plastic	6.4%		4,107				
PETE Containers - CRV	1.5%	1.8%	975				
PETE Containers - Non-CRV	0.9%	1.1%	566				
HDPE Containers - CRV	0.0%	0.0%	0				
HDPE Containers - Non-CRV	0.0%	0.1%	31				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	0.7%	0.7%	441				
Plastic Trash Bags	0.0%	0.0%	27				
Plastic Grocery and Other Merchandise Bags	0.0%	0.0%	23				
Non-Bag Commercial and Industrial Packaging Film	0.1%	0.1%	52				
Film Products	0.4%	0.6%	252				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	202				
Other Film - Other	1.2%	0.9%	767				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.9%	1.1%	594				
Durable Plastic Items - Other	0.3%	0.3%	205	Totals	100%		63.891
Remainder/Composite Plastic	0.3%	0.3%	174	Sampled Streams	24		

#### Table 113. Detailed Composition – Curbside Organics: Education

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	5.9%		584	Other Organic	93.9%		9,307
Uncoated Corrugated Cardboard	0.0%	0.0%	0	Food	75.9%	45.8%	7,521
Paper Bags	0.0%	0.0%	0	Leaves and Grass	9.0%	24.2%	893
Newspaper	0.0%	0.0%	0	Prunings and Trimmings	9.0%	24.2%	893
White Ledger Paper	0.0%	0.0%	0	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	0.0%	0.0%	0	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.0%	0.0%	0	Textiles	0.0%	0.0%	0
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	2.1%	0.2%	205	Remainder/Composite Organic	0.0%	0.0%	0
Other Miscellaneous Paper - Other	3.8%	2.3%	375				
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0.0%	4	Inerts and Other	0.0%		0
Remainder/Composite Paper - Compostable	0.0%	0.0%	0	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.0%	0.0%	0	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	0.0%		0	Clean Dimensional Lumber	0.0%		0
Clear Glass Bottles and Containers - CRV	0.0%	0.0%	0	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Clean Pallets & Crates	0.0%		0
Green Glass Bottles and Containers - CRV	0.0%	0.0%	0	Other Wood Waste	0.0%		0
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	0	Rock, Soil and Fines	0.0%	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0				-
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	0	Vehicle and Equipment Fluids	0.0%	0.0%	0
				Used Oil	0.0%	0.0%	0
Metal	0.0%		0	Batteries	0.0%		0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	0	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.0%	0.0%	0	Lamps - Fluorescent and LED	0.0%		0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0				-
Other Ferrous	0.0%	0.0%	0	Special Waste	0.0%		0
Aluminum Cans - CRV	0.0%	0.0%	0	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	0	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	0	Bulky Items	0.0%		0
Remainder/Composite Metal	0.0%	0.0%	0	Tires	0.0%	0.0%	0
	0.00/		•	Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%	0.00/	0	Mined Desides	0.00/	0.00/	0
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	U
Computer-related Electronics	0.0% 0.0%	0.0%	0				
Other Small Consumer Electronics		0.0%					
Video Display Devices - CRT	0.0% 0.0%	0.0% 0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Plastic	0.2%		18				
PETE Containers - CRV	0.0%	0.0%	0				
PETE Containers - Non-CRV	0.0%	0.0%	õ				
HDPE Containers - CRV	0.0%	0.0%	Õ				
HDPE Containers - Non-CRV	0.0%	0.0%	õ				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	õ				
Miscellaneous Plastic Containers - Non-CRV	0.2%	0.1%	18				
Plastic Trash Bags	0.0%	0.0%	0				
Plastic Grocery and Other Merchandise Bags	0.0%	0.0%	ŏ				
Non-Bag Commercial and Industrial Packaging Film	0.0%	0.0%	Õ				
Film Products	0.0%	0.0%	ŏ				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	ŏ				
Other Film - Other	0.0%	0.0%	ŏ				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0.0%	õ				
Durable Plastic Items - Other	0.0%	0.0%	Õ	Totals	100%		9.909
Remainder/Composite Plastic	0.0%	0.0%	ŏ	Sampled Streams	3		-,•

#### Table 114. Detailed Composition – Other Diversion: Education

	Estimated	Estimated		Estimated	Estimated
Material	Percent	Tons	Material	Percent	Tons
Paper	30.1%	7,262	Other Organic	6.0%	1.455
Uncoated Corrugated Cardboard	11.4%	2,757	Food	2.0%	485
Paper Bags	0.2%	52	Leaves and Grass	4.0%	971
Newspaper	0.5%	131	Prunings and Trimmings	0.0%	0
White Ledger Paper	8.5%	2,040	Branches and Stumps	0.0%	Ō
Other Office Paper	1.9%	449	Manures	0.0%	0
Magazines and Catalogs	2.6%	624	Textiles	0.0%	Ő
Phone Books and Directories	0.0%	0	Carpet	0.0%	Ő
Other Miscellaneous Paper - Compostable	4.6%	1,105	Remainder/Composite Organic	0.0%	0
Other Miscellaneous Paper - Other	0.4%	93	Remainder/ouriposite organic	0.070	0
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	1	Inerts and Other	0.0%	0
Remainder/Composite Paper - Compostable	0.0%	Ó	Concrete	0.0%	0
Remainder/Composite Paper - Other	0.0%	8	Asphalt Paving	0.0%	0
Remainder/Composite Paper - Other	0.078	0	Asphalt Roofing	0.0%	0
Glass	0.2%	42		0.0%	0
Clear Glass Bottles and Containers - CRV	0.2%	<b>42</b> 40	Clean Dimensional Lumber	0.0%	0
		40	Clean Engineered Wood		0
Clear Glass Bottles and Containers - Non-CRV	0.0%		Clean Pallets & Crates	0.0%	
Green Glass Bottles and Containers - CRV	0.0%	0	Other Wood Waste	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.0%	0	Gypsum Board	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	2	Rock, Soil and Fines	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0			
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0	Household Hazardous Waste	0.1%	32
Flat Glass	0.0%	0	Paint	0.0%	0
Remainder/Composite Glass	0.0%	0	Vehicle and Equipment Fluids	0.0%	0
			Used Oil	0.0%	0
Metal	42.0%	10,128	Batteries	0.1%	32
Tin/Steel Cans - CRV Bimetal Containers	3.4%	812	Mercury-Containing Items - Not Lamps	0.0%	0
Tin/Steel Cans - Other	0.1%	24	Lamps - Fluorescent and LED	0.0%	0
Major Appliances	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0
Used Oil Filters	0.0%	0			
Other Ferrous	32.4%	7,806	Special Waste	0.0%	0
Aluminum Cans - CRV	5.8%	1,399	Ash	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0	Treated Medical Waste	0.0%	0
Other Non-Ferrous	0.4%	87	Bulky Items	0.0%	0
Remainder/Composite Metal	0.0%	0	Tires	0.0%	0
			Remainder/Composite Special Waste	0.0%	0
Electronics	5.1%	1,235	·····		
Brown Goods	0.0%	0	Mixed Residue	0.0%	0
Computer-related Electronics	3.3%	798			•
Other Small Consumer Electronics	0.0%	0			
Video Display Devices - CRT	0.8%	190			
Video Display Devices - Other	1.0%	248			
Video Display Devices - Other	1.070	240			
Plastic	16.5%	3,972			
PETE Containers - CRV	15.5%	3,746			
PETE Containers - Non-CRV	0.1%	21			
HDPE Containers - CRV	0.8%	198			
HDPE Containers - CRV HDPE Containers - Non-CRV	0.0%	190			
	0.0%	0			
Miscellaneous Plastic Containers - CRV	0.0%	0			
Miscellaneous Plastic Containers - Non-CRV		•			
Plastic Trash Bags	0.0%	0			
Plastic Grocery and Other Merchandise Bags	0.0%	-			
Non-Bag Commercial and Industrial Packaging Film	0.0%	0			
Film Products	0.0%	0			
Other Film - Flexible Plastic Pouches	0.0%	0			
Other Film - Other	0.0%	0			
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0			
Durable Plastic Items - Other	0.0%	0	Totals	100%	24,127
Remainder/Composite Plastic	0.0%	0	Sampled Streams	39	

#### Table 115. Detailed Composition – Disposed: Hotels & Lodging

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	22.3%	-	85,791	Other Organic	45.5%		174,892
Uncoated Corrugated Cardboard	2.0%	0.5%	7,538	Food	32.1%	4.5%	123,483
Paper Bags	0.5%	0.1%	1,815	Leaves and Grass	2.1%	1.5%	8,042
Newspaper	2.6%	0.5%	10,001	Prunings and Trimmings	2.1%	1.8%	8,248
White Ledger Paper	0.9%	0.3%	3,596	Branches and Stumps	1.7%	1.9%	6,635
Other Office Paper	0.9%	0.4%	3,463	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.6%	0.2%	2,287	Textiles	2.6%	0.6%	9,941
Phone Books and Directories	0.1%	0.1%	291	Carpet	0.5%	0.4%	1,909
Other Miscellaneous Paper - Compostable	0.8%	0.4%	3,106	Remainder/Composite Organic	4.3%	0.9%	16,634
Other Miscellaneous Paper - Other	2.7%	0.6%	10,188				
Remainder/Composite Paper - Rigid Food & Beverage Cartons		0.2%	1,417	Inerts and Other	8.5%		32,718
Remainder/Composite Paper - Compostable	9.0%	1.3%	34,549	Concrete	0.2%	0.3%	656
Remainder/Composite Paper - Other	2.0%	0.7%	7,540	Asphalt Paving	1.7%	2.1%	6,692
				Asphalt Roofing	0.0%	0.0%	0
Glass	6.7%		25,897	Clean Dimensional Lumber	0.1%	0.1%	264
Clear Glass Bottles and Containers - CRV	0.9%	0.3%	3,431	Clean Engineered Wood	0.1%	0.1%	376
Clear Glass Bottles and Containers - Non-CRV	1.0%	0.6%	3,947	Clean Pallets & Crates	2.2%	1.6%	8,476
Green Glass Bottles and Containers - CRV	0.5%	0.2%	1,844	Other Wood Waste	1.1%	0.8%	4,225
Green Glass Bottles and Containers - Non-CRV	1.9%	1.6%	7,474	Gypsum Board	1.4%	2.2%	5,542
Brown Glass Bottles and Containers - CRV	1.0%	0.4%	3,785	Rock, Soil and Fines	0.2%	0.2%	635
Brown Glass Bottles and Containers - Non-CRV	0.1%	0.1%	450	Remainder/Composite Inerts and Other	1.5%	1.3%	5,852
Other Colored Glass Bottles and Containers - CRV	0.1%	0.1%	278				
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	51	Household Hazardous Waste	0.1%		207
Flat Glass	0.4%	0.5%	1,657	Paint	0.0%	0.0%	46
Remainder/Composite Glass	0.8%	0.7%	2,981	Vehicle and Equipment Fluids	0.0%	0.0%	6
<b>1</b>				Used Oil	0.0%	0.0%	0
Metal	4.1%		15,621	Batteries	0.0%	0.0%	40
Tin/Steel Cans - CRV Bimetal Containers	0.1%	0.0%	287	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	1.0%	1.1%	3,851	Lamps - Fluorescent and LED	0.0%	0.0%	64
Major Appliances	0.6%	0.9%	2,188	Remainder/Composite Household Hazardous	0.0%	0.0%	51
Used Oil Filters	0.0%	0.0%	0				
Other Ferrous	0.5%	0.3%	2,012	Special Waste	1.1%	4 00/	4,362
Aluminum Cans - CRV	0.3%	0.1%	1,004	Ash	0.8%	1.2%	2,926
Aluminum Cans - Non-CRV	0.1%	0.0%	237	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.4%	0.3%	1,713	Bulky Items	0.4%	0.6%	1,407
Remainder/Composite Metal	1.1%	0.7%	4,329	Tires	0.0%	0.0%	0
Electronics	0.0%		63	Remainder/Composite Special Waste	0.0%	0.0%	29
Brown Goods	0.0%	0.0%	03	Mixed Residue	0.4%	0.3%	1,550
Computer-related Electronics	0.0%	0.0%	25	wixed Residue	0.4%	0.3%	1,550
Other Small Consumer Electronics	0.0%	0.0%	25				
	0.0%	0.0%	0				
Video Display Devices - CRT Video Display Devices - Other	0.0%	0.0%	0				
video Display Devices - Other	0.0%	0.0%	0				
Plastic	11.2%		43.226				
PETE Containers - CRV	0.7%	0.2%	2,647				
PETE Containers - Non-CRV	0.3%	0.1%	1,227				
HDPE Containers - CRV	0.0%	0.0%	259				
HDPE Containers - Non-CRV	0.1%	0.3%	2.367				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	2,307				
Miscellaneous Plastic Containers - CRV Miscellaneous Plastic Containers - Non-CRV	0.0%	0.0%	1,394				
Plastic Trash Bags	2.8%	0.5%	10,766				
Plastic Grocery and Other Merchandise Bags	0.3%	0.1%	1,196				
Non-Bag Commercial and Industrial Packaging Film	0.3%	0.0%	272				
Film Products	0.1%	0.0%	49				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	192				
Other Film - Other	1.7%	0.0%	6,445				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.3%	0.3%	1,104				
Durable Plastic Items - #2 and #5 burky Rigids	0.3%	0.2%	1,104	Totals	100%		384,327
Remainder/Composite Plastic	3.5%	0.2 %	13,546	Sampled Streams	51		554,527
Confidence intervals calculated at the 90% confidence level. Percent					91		

#### Table 116. Detailed Composition – Curbside Recycle: Hotels & Lodging

	Estimated		Estimated		Estimated	_	Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	49.2%		24,543	Other Organic	5.4%		2,700
Uncoated Corrugated Cardboard	29.5%	8.4%	14,729	Food	5.2%	8.6%	2,605
Paper Bags	0.4%	0.2%	189	Leaves and Grass	0.0%		_,0
Newspaper	4.4%	2.5%	2,190	Prunings and Trimmings	0.0%	0.0%	0
White Ledger Paper	1.6%	1.4%	779	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	3.5%	5.4%	1,725	Manures	0.0%	0.0%	Ō
Magazines and Catalogs	3.5%	5.3%	1,762	Textiles	0.2%	0.1%	96
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	1.2%	0.7%	596	Remainder/Composite Organic	0.0%	0.0%	0
Other Miscellaneous Paper - Other	2.7%	1.2%	1,331	1			
Remainder/Composite Paper - Rigid Food & Beverage Cartons	1.1%	1.9%	536	Inerts and Other	23.8%		11,897
Remainder/Composite Paper - Compostable	0.8%	0.9%	412	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.6%	0.5%	295	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	7.9%		3,932	Clean Dimensional Lumber	0.6%	1.0%	286
Clear Glass Bottles and Containers - CRV	1.1%	1.0%	532	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	1.5%	1.1%	740	Clean Pallets & Crates	14.5%	16.1%	7,230
Green Glass Bottles and Containers - CRV	1.3%	1.6%	674	Other Wood Waste	0.0%		0
Green Glass Bottles and Containers - Non-CRV	1.9%	1.2%	941	Gypsum Board	0.0%	0.0%	Ō
Brown Glass Bottles and Containers - CRV	1.4%	1.0%	681	Rock, Soil and Fines	0.0%	0.0%	Ō
Brown Glass Bottles and Containers - Non-CRV	0.7%	0.8%	359	Remainder/Composite Inerts and Other	8.8%	9.7%	4,381
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0	· · · · · · · · · · · · · · · · · · ·			,
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		6
Flat Glass	0.0%	0.0%	6	Paint	0.0%	0.0%	Ō
Remainder/Composite Glass	0.0%	0.0%	Ō	Vehicle and Equipment Fluids	0.0%	0.0%	Ō
				Used Oil	0.0%	0.0%	Ō
Metal	2.1%		1,032	Batteries	0.0%	0.0%	1
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	5	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.2%	0.2%	86	Lamps - Fluorescent and LED	0.0%	0.0%	1
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	4
Used Oil Filters	0.0%	0.0%	0	· · · · · · · · · · · · · · · · · · ·			
Other Ferrous	1.3%	2.2%	666	Special Waste	0.1%		40
Aluminum Cans - CRV	0.2%	0.1%	82	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	5	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.3%	0.5%	165	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.0%	0.1%	23	Tires	0.1%	0.1%	40
•				Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		25				
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	0				
Other Small Consumer Electronics	0.0%	0.1%	25				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Blood a	44 50/		F 750				
Plastic	11.5%	0 40/	5,753				
PETE Containers - CRV	0.6%	0.4%	319				
PETE Containers - Non-CRV	0.9%	0.7%	426				
HDPE Containers - CRV	0.0%	0.0%	0				
HDPE Containers - Non-CRV	1.3%	1.4%	635				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	0.2%	0.2%	107				
Plastic Trash Bags	0.7%	0.8%	364				
Plastic Grocery and Other Merchandise Bags	0.1%	0.1%	44				
Non-Bag Commercial and Industrial Packaging Film	0.1%	0.1%	37				
Film Products	0.0%	0.0%	8				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	9				
Other Film - Other	3.8%	3.9%	1,882				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.7%	0.8%	374				
Durable Plastic Items - Other	2.1%	3.1%	1,051	Totals	100%		49,930
Remainder/Composite Plastic	1.0%	1.1%	498	Sampled Streams	23		

#### Table 117. Detailed Composition – Curbside Organics: Hotels & Lodging

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	0.0%		0	Other Organic	100.0%		3.293
Uncoated Corrugated Cardboard	0.0%	0.0%	Ō	Food		49.7%	1,780
Paper Bags	0.0%	0.0%	0	Leaves and Grass	25.0%		822
Newspaper	0.0%	0.0%	0	Prunings and Trimmings		49.7%	691
White Ledger Paper	0.0%	0.0%	0	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	0.0%	0.0%	0	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.0%	0.0%	0	Textiles	0.0%	0.0%	0
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	0.0%	0.0%	0	Remainder/Composite Organic	0.0%	0.0%	0
Other Miscellaneous Paper - Other	0.0%	0.0%	0				
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0.0%	0	Inerts and Other	0.0%		0
Remainder/Composite Paper - Compostable	0.0%	0.0%	0	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.0%	0.0%	0	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	0.0%		0	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	0.0%	0.0%	0	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Clean Pallets & Crates	0.0%	0.0%	0
Green Glass Bottles and Containers - CRV	0.0%	0.0%	0	Other Wood Waste	0.0%	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	0	Rock, Soil and Fines	0.0%	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0	·			
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	0	Vehicle and Equipment Fluids	0.0%	0.0%	0
•				Used Oil	0.0%	0.0%	0
Metal	0.0%		0	Batteries	0.0%	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	0	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.0%	0.0%	0	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0				
Other Ferrous	0.0%	0.0%	0	Special Waste	0.0%		0
Aluminum Cans - CRV	0.0%	0.0%	0	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	0	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	0	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.0%	0.0%	0	Tires	0.0%	0.0%	0
				Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		0				
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	0				
Other Small Consumer Electronics	0.0%	0.0%	0				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Plaatia	0.0%		•				
Plastic	0.0%	0.00/	0				
PETE Containers - CRV	0.0%	0.0%	0				
PETE Containers - Non-CRV	0.0%	0.0%	0				
HDPE Containers - CRV	0.0%	0.0%	0				
HDPE Containers - Non-CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	0.0%	0.0%	0				
Plastic Trash Bags	0.0%	0.0%	0				
Plastic Grocery and Other Merchandise Bags	0.0%	0.0%	0				
Non-Bag Commercial and Industrial Packaging Film	0.0%	0.0%	0				
Film Products	0.0%	0.0%	0				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	0				
Other Film - Other	0.0%	0.0%	0				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0.0%	0				
Durable Plastic Items - Other	0.0%	0.0%	0	Totals	100%		3,293
Remainder/Composite Plastic	0.0%	0.0%	0	Sampled Streams	3		

#### Table 118. Detailed Composition – Other Diversion: Hotels & Lodging

	Estimated	Estimated		Estimated	Estimated
Material	Percent	Tons	Material	Percent	Tons
Paper	31.3%	12,689	Other Organic	27.1%	10,981
Uncoated Corrugated Cardboard	30.5%	12,347	Food	13.6%	5,496
Paper Bags	0.0%	0	Leaves and Grass	0.0%	0
Newspaper	0.0%	0	Prunings and Trimmings	12.7%	5,136
White Ledger Paper	0.0%	0	Branches and Stumps	0.0%	, 0
Other Office Paper	0.0%	0	Manures	0.0%	0
Magazines and Catalogs	0.0%	0	Textiles	0.9%	350
Phone Books and Directories	0.0%	õ	Carpet	0.0%	0
Other Miscellaneous Paper - Compostable	0.0%	õ	Remainder/Composite Organic	0.0%	õ
Other Miscellaneous Paper - Other	0.0%	õ	rionalitaol, composito organio	0.070	•
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0 0	Inerts and Other	0.0%	0
Remainder/Composite Paper - Compostable	0.8%	342	Concrete	0.0%	õ
Remainder/Composite Paper - Other	0.0%	0.2	Asphalt Paving	0.0%	Ő
Remainder/Composite Faper - Other	0.070	0	Asphalt Roofing	0.0%	0
Glass	25.1%	10,148	Clean Dimensional Lumber	0.0%	0
Clear Glass Bottles and Containers - CRV	22.5%	9,091	Clean Engineered Wood	0.0%	0
	0.0%	9,091		0.0%	0
Clear Glass Bottles and Containers - Non-CRV		86	Clean Pallets & Crates		0
Green Glass Bottles and Containers - CRV	0.2%		Other Wood Waste	0.0%	
Green Glass Bottles and Containers - Non-CRV	0.0%	0	Gypsum Board	0.0%	0
Brown Glass Bottles and Containers - CRV	2.4%	971	Rock, Soil and Fines	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0			
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0	Household Hazardous Waste	0.2%	73
Flat Glass	0.0%	0	Paint	0.0%	0
Remainder/Composite Glass	0.0%	0	Vehicle and Equipment Fluids	0.0%	0
			Used Oil	0.0%	0
Metal	10.3%	4,168	Batteries	0.2%	73
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0	Mercury-Containing Items - Not Lamps	0.0%	0
Tin/Steel Cans - Other	0.0%	0	Lamps - Fluorescent and LED	0.0%	0
Major Appliances	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0
Used Oil Filters	0.0%	0			
Other Ferrous	8.2%	3,307	Special Waste	0.0%	0
Aluminum Cans - CRV	2.1%	858	Ash	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0	Treated Medical Waste	0.0%	0
Other Non-Ferrous	0.0%	0	Bulky Items	0.0%	0
Remainder/Composite Metal	0.0%	3	Tires	0.0%	0
	,.	-	Remainder/Composite Special Waste	0.0%	Ō
Electronics	2.3%	915		01070	•
Brown Goods	0.0%	3	Mixed Residue	0.1%	60
Computer-related Electronics	2.2%	889		••••	•••
Other Small Consumer Electronics	0.0%	000			
Video Display Devices - CRT	0.0%	19			
Video Display Devices - Other	0.0%	4			
Video Display Devices - Other	0.070	-			
Plastic	3.6%	1.454			
PETE Containers - CRV	3.2%	1,300			
PETE Containers - Non-CRV	0.0%	1,000			
HDPE Containers - CRV	0.2%	74			
HDPE Containers - CRV HDPE Containers - Non-CRV	0.2%	0			
	0.0%	0			
Miscellaneous Plastic Containers - CRV Miscellaneous Plastic Containers - Non-CRV	0.0%	80			
Plastic Trash Bags	0.0%	0			
Plastic Grocery and Other Merchandise Bags	0.0%	-			
Non-Bag Commercial and Industrial Packaging Film	0.0%	0			
Film Products	0.0%	0			
Other Film - Flexible Plastic Pouches	0.0%	0			
Other Film - Other	0.0%	0			
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0			
Durable Plastic Items - Other	0.0%	0	Totals	100%	40,489
Remainder/Composite Plastic	0.0%	0	Sampled Streams	41	

# Table 119. Detailed Composition – Disposed: Manufacturing – ElectronicEquipment

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	30.1%		27,438	Other Organic	21.3%		19.479
Uncoated Corrugated Cardboard	3.2%	0.8%	2,928	Food	11.3%	3.7%	10,310
Paper Bags	0.3%	0.1%	251	Leaves and Grass	2.8%	2.4%	2,524
Newspaper	1.6%	0.7%	1.415	Prunings and Trimmings	0.6%	0.5%	518
White Ledger Paper	2.4%	0.8%	2,214	Branches and Stumps	0.0%	0.0%	4
Other Office Paper	1.8%	0.5%	1,661	Manures	0.0%	0.0%	Ó
Magazines and Catalogs	0.7%	0.3%	670	Textiles	1.8%	0.6%	1.618
Phone Books and Directories	0.0%	0.0%	14	Carpet	0.1%	0.1%	70
Other Miscellaneous Paper - Compostable	0.9%	0.6%	819	Remainder/Composite Organic	4.9%	3.9%	4,436
Other Miscellaneous Paper - Other	2.9%	0.9%	2,679	rtemander/composite organio	1.070	0.070	1,100
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.3%	0.2%	2,073	Inerts and Other	20.7%		18,935
Remainder/Composite Paper - Compostable	13.1%	3.0%	11.945	Concrete	0.5%	0.7%	413
Remainder/Composite Paper - Other	2.9%	1.3%	2,610	Asphalt Paving	0.0%	0.1%	45
Remainder/Composite Paper - Other	2.970	1.570	2,010	Asphalt Roofing	0.0%	0.7%	391
Glass	0.3%		261	Clean Dimensional Lumber	2.0%	1.7%	1,867
Clear Glass Bottles and Containers - CRV	0.3%	0.1%	135	Clean Engineered Wood	0.2%	0.2%	1,007
	0.1%	0.1%	70			0.2% 6.2%	
Clear Glass Bottles and Containers - Non-CRV	0.1%		70	Clean Pallets & Crates	10.5%		9,598
Green Glass Bottles and Containers - CRV		0.0%		Other Wood Waste	4.4%	2.0%	4,057
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	2	Rock, Soil and Fines	1.8%	1.5%	1,603
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	2	Remainder/Composite Inerts and Other	0.9%	0.8%	811
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	8				
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.8%		755
Flat Glass	0.0%	0.0%	0	Paint	0.5%	0.8%	456
Remainder/Composite Glass	0.0%	0.0%	40	Vehicle and Equipment Fluids	0.0%	0.0%	12
				Used Oil	0.0%	0.0%	0
Metal	3.8%		3,458	Batteries	0.1%	0.2%	99
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	8	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.1%	0.1%	130	Lamps - Fluorescent and LED	0.0%	0.0%	6
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.2%	0.3%	183
Used Oil Filters	0.0%	0.0%	9				
Other Ferrous	0.8%	0.8%	689	Special Waste	2.7%		2,444
Aluminum Cans - CRV	0.1%	0.1%	100	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	17	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	1.4%	1.6%	1,235	Bulky Items	2.7%	2.2%	2,442
Remainder/Composite Metal	1.4%	0.7%	1,271	Tires	0.0%	0.0%	0
·			·	Remainder/Composite Special Waste	0.0%	0.0%	1
Electronics	1.5%		1.381				
Brown Goods	1.2%	2.0%	1,115	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.2%	0.3%	176				
Other Small Consumer Electronics	0.0%	0.0%	8				
Video Display Devices - CRT	0.0%	0.0%	Ō				
Video Display Devices - Other	0.1%	0.1%	81				
	01170	0,0	0.				
Plastic	18.8%		17,115				
PETE Containers - CRV	0.2%	0.1%	157				
PETE Containers - Non-CRV	0.1%	0.0%	60				
HDPE Containers - CRV	0.0%	0.0%	9				
HDPE Containers - Non-CRV	0.3%	0.3%	302				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	36				
Miscellaneous Plastic Containers - Non-CRV	0.0%	0.0%	421				
Plastic Trash Bags	2.3%	0.2%	2,136				
Plastic Trash Bags Plastic Grocery and Other Merchandise Bags	0.1%	0.0%	2,130				
	1.5%	1.1%	1,389				
Non-Bag Commercial and Industrial Packaging Film							
Film Products	0.2%	0.3%	206				
Other Film - Flexible Plastic Pouches	0.1%	0.1%	55				
Other Film - Other	2.8%	1.4%	2,590				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.3%	0.3%	275	<b>T</b> : ( ) (	4000		
Durable Plastic Items - Other	3.3%	4.0%	2,967	Totals	100%		91,265
Remainder/Composite Plastic	7.0%	3.3%	6,414	Sampled Streams	51		

### Table 120. Detailed Composition – Curbside Recycle: Manufacturing – Electronic Equipment

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	93.8%		19,709	Other Organic	0.2%		44
Uncoated Corrugated Cardboard	81.8%	15.0%	17,203	Food	0.1%	0.2%	31
Paper Bags	2.1%	2.0%	451	Leaves and Grass	0.0%	0.0%	0
Newspaper	0.1%	0.1%	24	Prunings and Trimmings	0.0%	0.0%	0
White Ledger Paper	1.7%	1.4%	347	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	2.3%	3.2%	476	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.7%	0.9%	138	Textiles	0.0%	0.0%	3
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	2.8%	4.5%	597	Remainder/Composite Organic	0.0%	0.1%	10
Other Miscellaneous Paper - Other	0.8%	0.7%	164	·			
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0.0%	1	Inerts and Other	0.0%		0
Remainder/Composite Paper - Compostable	0.8%	1.1%	166	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.7%	1.2%	142	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	0.3%		58	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	0.0%	0.0%	5	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Clean Pallets & Crates	0.0%	0.0%	0
Green Glass Bottles and Containers - CRV	0.0%	0.0%	0	Other Wood Waste	0.0%	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.1%	0.3%	30	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	0.1%	0.2%	24	Rock, Soil and Fines	0.0%	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0	· · · · · · · · · · · · · · · · · · ·			
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%	0.0%	Ō	Paint	0.0%	0.0%	Ō
Remainder/Composite Glass	0.0%	0.0%	Ō	Vehicle and Equipment Fluids	0.0%	0.0%	Ō
				Used Oil	0.0%	0.0%	Ō
Metal	0.1%		24	Batteries	0.0%	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	0	Mercury-Containing Items - Not Lamps	0.0%	0.0%	õ
Tin/Steel Cans - Other	0.0%	0.0%	5	Lamps - Fluorescent and LED	0.0%	0.0%	õ
Major Appliances	0.0%	0.0%	Õ	Remainder/Composite Household Hazardous		0.0%	õ
Used Oil Filters	0.0%	0.0%	ŏ		0.070	0.070	Ū
Other Ferrous	0.0%		3	Special Waste	0.0%		0
Aluminum Cans - CRV	0.0%		2	Ash	0.0%	0.0%	Õ
Aluminum Cans - Non-CRV	0.0%	0.0%	0	Treated Medical Waste	0.0%	0.0%	Ő
Other Non-Ferrous	0.0%	0.0%	1	Bulky Items	0.0%	0.0%	ŏ
Remainder/Composite Metal	0.0%	0.1%	13	Tires	0.0%	0.0%	ŏ
Remainder/oomposite metai	0.170	0.170	10	Remainder/Composite Special Waste	0.0%	0.0%	ŏ
Electronics	0.0%		0				
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	0				
Other Small Consumer Electronics	0.0%	0.0%	0				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Plastic	5.6%		1,184				
PETE Containers - CRV	0.3%		69				
PETE Containers - Non-CRV	0.1%	0.1%	19				
HDPE Containers - CRV	0.0%		0				
HDPE Containers - Non-CRV	0.1%		26				
Miscellaneous Plastic Containers - CRV	0.0%		0				
Miscellaneous Plastic Containers - Non-CRV	0.2%		36				
Plastic Trash Bags	0.1%	0.1%	29				
Plastic Grocery and Other Merchandise Bags	0.0%	0.0%	3				
Non-Bag Commercial and Industrial Packaging Film	0.3%	0.4%	63				
Film Products	0.0%	0.1%	7				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	0				
Other Film - Other	0.9%	1.4%	182				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.8%	1.2%	171				
Durable Plastic Items - Other	0.0%	0.0%	0	Totals	100%		21,020
Remainder/Composite Plastic	2.8%	4.3%	580	Sampled Streams	19		, -

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

### Table 121. Detailed Composition – Curbside Organics: Manufacturing – Electronic Equipment

None of the selected Manufacturing – Electronic Equipment sites had a Curbside Organics stream.

### Table 122. Detailed Composition – Other Diversion: Manufacturing – Electronic Equipment

Paper         6.8%         7.071         Other Organic         5.1%           Puncet Bags         0.0%         36         Leaves and Grass         2.6%           Newspaper         0.2%         231         Prunings and Trimmings         0.5%           White Ledger Paper         0.3%         331         Branches and Stumps         0.2%           Other Office Paper         0.3%         331         Branches and Compate Paper         0.0%           Other Miscellance Directories         0.0%         100         Trauss         0.0%           Other Miscellance Directories         0.0%         415         Remainder/Compasite Paper - Compositable         0.0%           Remainder/Compasite Paper - Other         0.0%         226         Concrete         0.3%         100%           Glass         0.0%         0.0%         30         Clean Flass and Containers - CRV         0.0%         30         Clean Flass Bottles and Containers - CRV         0.0%         30         Clean Flass Bottles and Containers - CRV         0.0%         30         Clean Flass Bottles and Container - CRV         0.0%         0         Clean Flass Bottles and Container - CRV         0.0%         0         Clean Flass Bottles and Container - CRV         0.0%         0         Clean Flaphater Paing         0.0%         0 <th></th> <th>Estimated</th> <th>Estimated</th> <th></th> <th>Estimated</th> <th>Estimated</th>		Estimated	Estimated		Estimated	Estimated
Uncosted Corrugated Cardobard         5.2%         5.4/15         Food         1.9%           Paper Bags         0.0%         36         Leaves and Grass         2.6%           Newspaper         0.3%         331         Branches and Stumps         0.2%           Other Office Paper         0.3%         337         Branches and Stumps         0.2%           Other Office Paper         0.3%         337         Manures         0.0%           Magazines and Catalogs         0.0%         1         Freestiles         0.0%           Other Miscellaneous Paper - Compositable         0.0%         1         Freestiles         0.0%           Other Miscellaneous Paper - Other         0.0%         1         Inerts and Other         16.1%         1           Remainder/Composite Paper - Compositable         0.0%         1         Asphalt Paving         0.0%         24%         24%         24%         24%         1         1         1         336         337         336         336         337         337         336         336         336         336         336         336         336         336         336         336         336         336         336         336         336         336         336	Material	Percent	Tons	Material	Percent	Tons
Paper Bags         0.0%         36         Leaves and Grass         2.6%           Newspaper         0.2%         23         Punings and Timmings         0.5%           White Lodger Paper         0.3%         331         Branches and Stumps         0.2%           Magazines and Catalogs         0.1%         106         Textiles         0.0%           Magazines and Catalogs         0.0%         Carper         0.0%         0.0%           Other Office Paper         Composite Days         0.0%         1         Textiles         0.0%           Other Office Paper         Composite Days         0.0%         1         Textiles         0.0%         1           Remainder/Composite Paper - Compositable         0.0%         1         Textiles         0.3%         1           Remainder/Composite Paper - Other         0.0%         225         Concrete         0.3%         1           Clear Class Botties and Containers - CRV         0.0%         39         Clean Engineered Wood         0.0%         1           Clear Class Botties and Containers - Non-CRV         0.0%         0         Other Wood Waste         0.4%         1           Green Class Botties and Containers - Non-CRV         0.0%         0         Remainder/Composite Inerts and Other <td></td> <td></td> <td></td> <td></td> <td></td> <td>5,388</td>						5,388
Neisspare Protection         0.2%         231         Prunings and Timmings         0.5%           Other Office Paper         0.3%         331         Branches and Sturryss         0.2%           Other Office Paper         0.3%         307         Manures         0.0%           Prone Backs and Directories         0.0%         0         Capet         0.0%           Other Miscalemaos Paper - Compositable         0.0%         1         Inertis and Other         0.0%           Remainder/Composite Paper - Nipid Food & Baverage Catons         0.0%         41         Inertis and Other         6.1%         1           Remainder/Composite Paper - Other         0.0%         0.0%         24         Concrete         0.3%           Glass         Clear Class Bottles and Containers - CRV         0.0%         0         Clear Class Bottles and Containers - CRV         0.0%         0         Gener Class Bottles and Containers - CRV         0.0%         0         Gener Class Bottles and Containers - CRV         0.0%         0         Gener Class Bottles and Containers - CRV         0.0%         0         Gener Class Bottles and Containers - CRV         0.0%         0         Gener Class Bottles and Containers - CRV         0.0%         0         Gener Class Bottles and Containers - CRV         0.0%         0         Gener Class Bottles and Con						1,981
White Ledger Paper         0.3%         331         Branches and Slumps <sup>6</sup> 0.2%           Magazines and Catalogs         0.1%         106         Textiles         0.0%           Phone Books and Directories         0.0%         4         Remainder/Composite Organic         0.0%           Other Miscellaneous Paper - Compositable         0.0%         4         Remainder/Composite Organic         0.0%           Other Miscellaneous Paper - Corter         16.1%         4         Remainder/Composite Organic         0.0%           Other Miscellaneous Paper - Corter         0.4%         4         Remainder/Composite Organic         0.0%           Gene Glass Bottles and Containers - CRV         0.0%         2         Concrete         0.3%         4           Clear Glass Bottles and Containers - Non-CRV         0.0%         30         Clean Engineered Wood         0.0%         6           Green Glass Bottles and Containers - Non-CRV         0.0%         0         Other Wood Waste         0.4%         1.1%         1           Green Glass Bottles and Containers - Non-CRV         0.0%         0         Other Wood Waste         0.0%         0         0.0%         1.1%         1         0.0%         1.1%         1         0.0%         1.1%         1         0.0%         0.						2,676
Other Office Paper         0.3%         307         Marures         0.0%           Magazines and Catalogs         0.1%         106         Taxilies         0.0%           Other Miscellaneous Paper - Other         0.4%         415         0.0%         0           Remainder/Composite Paper - Other         0.4%         415         0.0%         0           Remainder/Composite Paper - Other         0.4%         415         0.0%         0           Remainder/Composite Paper - Other         0.4%         415         0.0%         0.0%         0           Glass         0.1%         77         Clean Dimersional Lumber         2.4%         0.0%         0           Glass Botties and Containers - ORV         0.0%         30         Clean Dimersional Lumber         2.4%         1           Green Glass Botties and Containers - Nor-CRV         0.0%         30         Clean Dimersional Lumber         2.4%           Green Glass Botties and Containers - Nor-CRV         0.0%         0         Cher Wood Waste         0.4%           Green Glass Botties and Containers - Nor-CRV         0.0%         0         Clean Dimersional Lumber         0.0%           Brown Glass Botties and Containers - Nor-CRV         0.0%         0         Paint         0.0%         0						572
Magazines and Catalogs         0.1%         106         Taxtiles         0.0%           Phone Books and Directories         0.0%         4         Remainder/Composite Organic         0.0%           Other Miscellaneous Paper - Compostable         0.4%         415         Interts and Other         0.3%           Remainder/Composite Paper - Nigid Food & Beverage Cartons         0.0%         1         Interts and Other         18.1%         1           Glass         Composite Paper - Compositable         0.0%         0         Asphait Paving         0.0%           Glass         Control & Compositable         0.0%         0         Asphait Paving         0.0%           Glass         Battiles and Containers - Non-CRV         0.0%         0         Gene Topics and Containers - Non-CRV         0.0%         0           Green Glass Bottles and Containers - Non-CRV         0.0%         7         Rock, Soil and Fines         1.17%         1           Brown Glass Bottles and Containers - Non-CRV         0.0%         7         Rock, Soil and Fines         1.3%           Brown Glass Bottles and Containers - Non-CRV         0.0%         0         Paint anider/Composite Inerts and Other         0.0%           Other Colored Glass Bottles and Containers - Non-CRV         0.0%         0         Paint Paint Paint Paint Pa						160
Phone Books and Directions         0.0%         0         Carpet         0.0%           Other Miscellaneous Paper - Other         0.4%         415           Remainder/Composite Days - Other         0.4%         415           Remainder/Composite Paper - Compostable         0.2%         225         Concrete         0.3%           Remainder/Composite Paper - Other         0.4%         415         Concrete         0.3%           Glass         Remainder/Composite Paper - Other         0.4%         70         Class Online         0.0%           Glass         Glass Bottles and Containers - CRV         0.4%         70         Clean Dimensional Lumber         2.4%           Green Glass Bottles and Containers - CRV         0.0%         30         Clean Paties & Other         0.4%         1           Green Glass Bottles and Containers - CRV         0.0%         0         Cherr Wood Waste         0.4%         1           Brown Glass Bottles and Containers - CRV         0.0%         0         Remainder/Composite Paper - Other         0.0%         0           Brown Glass Bottles and Containers - CRV         0.0%         0         Paint         0.0%         0           Brown Glass Bottles and Containers - CRV         0.0%         0         Paint         0.0%         0						0
Other Miscellaneous Paper - Other         0.0%         4         Remainder/Composite Organic         0.0%           Other Miscellaneous Paper - Other         0.0%         1         Inerts and Other         16.1%         1           Remainder/Composite Paper - Rigid Food & Beverage Cartons         0.0%         1         Inerts and Other         16.1%         1           Remainder/Composite Paper - Other         0.0%         0         Asphalt Rooting         0.0%           Glass         Concrete         0.0%         0         Asphalt Rooting         0.0%           Glass Bottles and Containers - CRV         0.0%         30         Clean Engineered Wood         0.0%           Green Glass Bottles and Containers - Ner CRV         0.0%         0         Other Wood Waste         0.4%           Brown Glass Bottles and Containers - Ner CRV         0.0%         0         Remainder/Composite Paper - Ner Ver         0.0%           Other Colored Glass Bottles and Containers - Ner CRV         0.0%         0         Household Hazardous Waste         0.0%           Flat Glass         Bottles and Containers - Ner CRV         0.0%         0         Household Hazardous Waste         0.0%           Other Colored Glass Bottles and Containers - Ner CRV         0.0%         0         Heroury-Containing Herns - Not Lamps         0.0%<						0
Other Miscellaneous Paper - Other         0.4%         415         Interts and Other         16.1%         1           Remainder/Composite Paper - Other         0.2%         225         Concrete         0.3%         0.0%           Glass         0.0%         0.4%         1         Interts and Other         0.1%         0.0%           Clear Glass Bottles and Containers - CRV         0.0%         39         Clean Pallets & Crates         11.7%         1           Green Glass Bottles and Containers - Non-CRV         0.0%         30         Clean Pallets & Crates         11.7%         1           Green Glass Bottles and Containers - Non-CRV         0.0%         0         Other Wood Waste         0.4%           Brown Glass Bottles and Containers - Non-CRV         0.0%         0         Other Wood Waste         0.4%           Cher Colored Glass Bottles and Containers - Non-CRV         0.0%         0         Household Hazardous Waste         0.0%           Cher Colored Glass Bottles and Containers - Non-CRV         0.0%         0         Household Hazardous Waste         0.0%           Find Incose         0.0%         0         Batteries         0.0%         0           Maria ApplaterComposite Indus and Containers - Non-CRV         0.0%         0         0.0%         0.0%				•		0
Remainder/Composite Paper - Rigid Food & Baverage Cartons         0.0%         1         Inerts and Other         16.1%         1           Remainder/Composite Paper - Other         0.0%         0         Asphalt Roofing         0.0%           Glass         Concrete         0.0%         3         Clean Engineered Wood         0.0%           Clars Glass Bottles and Containers - CRV         0.0%         30         Clean Engineered Wood         0.0%           Green Glass Bottles and Containers - CRV         0.0%         0         Other Wood Waste         0.4%           Green Glass Bottles and Containers - CRV         0.0%         0         Other Wood Waste         0.4%           Green Glass Bottles and Containers - CRV         0.0%         0         Remainder/Composite Paper - More         0.0%           Brown Glass Bottles and Containers - CRV         0.0%         0         Remainder/Composite Paper - More         0.0%           Cher Colored Glass Bottles and Containers - Non-CRV         0.0%         0         Remainder/Composite Paper - More         0.0%           ThirdSteel Cans - CRV Binetal Containers - Non-CRV         0.0%         0         Paint         0.0%           Thrisbeel Cans - CRV Binetal Containers - Non-CRV         0.0%         0         Paint         0.0%           Metal <td< td=""><td></td><td></td><td></td><td>Remainder/Composite Organic</td><td>0.0%</td><td>0</td></td<>				Remainder/Composite Organic	0.0%	0
Remainder/Composite Paper - Other         0.2%         225         Concrete         0.3%           Remainder/Composite Paper - Other         0.0%         0         Asphalt Paving         0.0%           Glass         0.1%         77         Clean Dimensional Lumber         2.4%           Clear Glass Bottles and Containers - Non-CRV         0.0%         30         Clean Dimensional Lumber         2.4%           Clear Glass Bottles and Containers - Non-CRV         0.0%         30         Clean Pallets & Crates         1.7%         1           Green Class Bottles and Containers - NON-CRV         0.0%         0         Other Wood Waste         0.4%           Brown Class Bottles and Containers - NON-CRV         0.0%         0         Remainder/Composite Inerts and Other         0.0%           Other Colored Glass Bottles and Containers - NON-CRV         0.0%         0         Paint         0.0%           Other Colored Glass Bottles and Containers - NON-CRV         0.0%         0         Paint         0.0%           Tin/Steel Cans - CRV Binetal Containers         0.0%         0         Paint         0.0%           Tin/Steel Cans - CRV Binetal Containers         0.0%         0         Remainder/Composite Household Hazardous         0.0%           Migr Appliances         0.0%         0						
Remainder/Composite Paper - Other         0.0%         Asphalt Roofing         0.0%           Glass         0.1%         77         Clean Dimensional Lumber         2.4%           Clear Glass Bottles and Containers - CRV         0.0%         30         Clean Engineered Wood         0.0%           Green Glass Bottles and Containers - CRV         0.0%         30         Clean Engineered Wood         0.0%           Green Glass Bottles and Containers - CRV         0.0%         00         Cher Vood Waste         0.4%           Green Glass Bottles and Containers - CRV         0.0%         00         Cher Vood Waste         0.4%           Brown Glass Bottles and Containers - CRV         0.0%         0         Paint         0.0%         0           Other Colored Glass Bottles and Containers - CRV         0.0%         0         Paint         0.0%         0           Metal         65.0%         68.050         Batteries         0.0%         1         Household Hazardous Waste         0.0%           Miscle Cans - CRV Bimetal Containers - CRV         0.0%         0         Paint         0.0%         0           TruSteel Cans - CRV Bimetal Containers         0.0%         1         Mecruy-Containing Items - Not Lamps         0.0%           Used Cans - CRV Bimetal Containers <th< td=""><td></td><td></td><td></td><td></td><td></td><td>16,845</td></th<>						16,845
Asphat RoofingAsphat Roofing0.0%Class Bottles and Containers - NOR-CRV0.0%39Clean Dimensional Lumber2.4%Clear Glass Bottles and Containers - NOR-CRV0.0%30Clean Dimensional Lumber0.0%1Green Class Bottles and Containers - NOR-CRV0.0%0Other Wood Waste0.4%1Green Class Bottles and Containers - NOR-CRV0.0%0Other Wood Waste0.0%0Brown Class Bottles and Containers - NOR-CRV0.0%00Paint0.0%0Other Colored Glass Bottles and Containers - NOR-CRV0.0%0000Other Colored Glass Bottles and Containers - NOR-CRV0.0%00000Paint Calced Glass Bottles and Containers - NOR-CRV0.0%000000Metal65.0%68.050Batteriae0.0%000000Tin/Steel Cans - CRV Blinetal Containers0.0%0000000000000000000000000000000000000000000000000000000000000000000000 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>318</td>						318
Glass     0.1%     77     Clear Oldsa Bottles and Containers - CRV     0.0%       Clear Glass Bottles and Containers - Non-CRV     0.0%     30     Clean Engineened Wood     0.0%       Green Glass Bottles and Containers - Non-CRV     0.0%     0     Other Wood Waste     0.4%       Green Glass Bottles and Containers - Non-CRV     0.0%     0     Other Wood Waste     0.4%       Brown Glass Bottles and Containers - Non-CRV     0.0%     0     Remainder/Composite Inerts and Other     0.0%       Other Colored Glass Bottles and Containers - Non-CRV     0.0%     0     Household Hazardous Waste     0.0%       Other Colored Glass Bottles and Containers - Non-CRV     0.0%     0     Heaminder/Composite Inerts and Other     0.0%       Other Colored Glass Bottles and Containers - Non-CRV     0.0%     0     Heaminder/Composite Inerts and Other     0.0%       Remainder/Composite Glass     0.0%     0     Valeice and Equipment Fluids     0.0%       Ind/Steel Cans - ORV     0.0%     0     Wastries     0.0%       Micel Cans - ORV     0.0%     0     Remainder/Composite Inerts and Other     0.0%       Used Oil     0.0%     0     Remainder/Composite Inerts and Other     0.0%       Used Oil     0.0%     0     Remainder/Composite Inerts and Other     0.0%       Used Oil <td< td=""><td>Remainder/Composite Paper - Other</td><td>0.0%</td><td>0</td><td></td><td></td><td>0</td></td<>	Remainder/Composite Paper - Other	0.0%	0			0
Clear Glass Bottles and Containers - NOR-CRV         0.0%         39         Clear Pallets & Crates         11.7%         1           Green Glass Bottles and Containers - OR-V         0.0%         0         Other Wood Waste         0.4%         0.4%           Green Glass Bottles and Containers - OR-V         0.0%         0         Other Wood Waste         0.4%         0.0%           Brown Glass Bottles and Containers - OR-V         0.0%         7         Rock. Soli and Fines         1.3%           Brown Glass Bottles and Containers - OR-V         0.0%         0         Remainder/Composite Inerts and Other         0.0%           Other Colored Glass Bottles and Containers - Non-CRV         0.0%         0         Paint         0.0%         0           Remainder/Composite Glass         0.0%         0         Vehicle and Equipment Fluids         0.0%         0           Metal         65.0%         68.050         Batteries         0.0%         0         0.0%         0           Major Appliances         0.0%         0         Vehicle and Equipment Fluids         0.0%         0         0.0%         0           Used Oll         0.0%         0         Remainder/Composite Malazardous         0.0%         0         0.0%         0         0.0%         0         0.0% <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td>						0
Clear Glass Bottles and Containers - Non-CRV         0.0%         30         Clear Pallets & Crates         11.7%         1           Green Glass Bottles and Containers - Non-CRV         0.0%         0         Other Wood Waste         0.4%           Brown Glass Bottles and Containers - Non-CRV         0.0%         0         Green Glass Bottles and Containers - Non-CRV         0.0%         0           Other Colored Glass Bottles and Containers - Non-CRV         0.0%         0         Remainder/Composite Inerts and Other         0.0%           Other Colored Glass Bottles and Containers - Non-CRV         0.0%         0         Paint         0.0%           Remainder/Composite Glass         0.0%         0         Paint         0.0%         0           Metal         65.0%         68,050         Batterias         0.0%         0           Tin/Steel Cans - CRV Bimetal Containers         0.0%         1         Mercury-Containing Items - Not Lamps         0.0%           Mair Applances         0.0%         0         Remainder/Composite Household Hazardous         0.0%         0           Mair Applances         0.0%         1         Mercury-Containing Items - Not Lamps         0.0%           Mair Applances         0.0%         0         Remainder/Composite Household Hazardous         0.0%						2,501
Green Glass Bottles and Containers - CRV         0.0%         0         Other Wood Waste         0.4%           Green Glass Bottles and Containers - CRV         0.0%         7         Rock, Soil and Fines         1.3%           Brown Glass Bottles and Containers - CRV         0.0%         0         Remainder/Composite Inerts and Other         0.0%           Other Colored Glass Bottles and Containers - Non-CRV         0.0%         0         Paint         0.0%           Other Colored Glass Bottles and Containers - Non-CRV         0.0%         0         Paint         0.0%           Ital Glass         0.0%         0         Paint         0.0%         0%           Metal         65.0%         68,050         Batteries         0.0%         0%           Tru/Steel Cans - CRV Birnetal Containers         0.1%         4         Mercury-Containing Items - Not Lamps         0.0%           Tru/Steel Cans - CRV         0.0%         0         Remainder/Composite Household Hazardous         0.0%         0           Used Oli Filters         0.0%         0         Remainder/Composite Household Hazardous         0.0%         0           Aluminum Cans - Non-CRV         0.0%         2         Treated Medical Waste         0.0%           Other Ferrous         2.5%         2.6%         <						0
Green Glass Bottles and Containers - Non-CRV         0.0%         7         Rock, Soil and Fines         1.3%           Brown Glass Bottles and Containers - Non-CRV         0.0%         0         Remainder/Composite Inerts and Other         0.0%           Other Colored Glass Bottles and Containers - Non-CRV         0.0%         0         Remainder/Composite Inerts and Other         0.0%           Metal         Obset Colored Glass Bottles and Containers - Non-CRV         0.0%         0         Household Hazardous Waste         0.0%           Metal         65.0%         68.050         Batteries         0.0%         0           Tin/Steel Cans - CRV Binnetal Containers         0.0%         0         Vehicle and Equipment Fluids         0.0%           Used Oil         0.0%         0         Remainder/Composite Household Hazardous         0.0%         0           Tin/Steel Cans - CRV Binnetal Containers         0.0%         0         Remainder/Composite Household Hazardous         0.0%           Used Oil Filters         0.0%         0         Remainder/Composite Household Hazardous         0.0%           Other Ferrous         29.4%         30,726         Special Waste         0.0%           Aluminum Cans - CRV         0.0%         40         Ash         0.0%           Remainder/Composite Metal						12,211
Brown Glass Bottles and Containers - CRV     0.0%     7     R <sup>5</sup> ck, Soil and Fines     1.3%       Brown Glass Bottles and Containers - Non-CRV     0.0%     0     0     Remainder/Composite Inerts and Other     0.0%       Other Colored Glass Bottles and Containers - Non-CRV     0.0%     0     Paint     0.0%       Remainder/Composite Glass     0.0%     0     Paint     0.0%       Metal     65.0%     68,050     Batteries     0.0%       Misel Cans - CRV Binetal Containers     0.0%     0     Remainder/Composite Mass     0.0%       Tin/Steel Cans - CRV Binetal Containers     0.0%     0     Remainder/Composite Household Hazardous     0.0%       Major Appliances     0.0%     0     Remainder/Composite Household Hazardous     0.0%       Used Oil Filters     0.0%     0     Remainder/Composite Household Hazardous     0.0%       Other Ferous     29.4%     30,726     Special Waste     0.0%       Aluminum Cans - CRV     0.0%     2     Treated Medical Waste     0.0%       Other Non-Ferous     3.5.4%     37,072     Buky Items     0.2%       Remainder/Composite Metal     0.1%     125     Treated Medical Waste     0.0%       Other Non-Ferous     0.7%     689     0.0%     0       Brown Goods     0.7% </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>415</td>						415
Brown Glass Bottles and Containers - Non-CRV     0.0%     0     Remainder/Composite Inerts and Other     0.0%       Other Colored Glass Bottles and Containers - ORV     0.0%     0     Plant     0.0%       Remainder/Composite Glass     0.0%     0     Plaint     0.0%       Metal     65.0%     68,050     Batteries     0.0%       Tin/Steel Cans - CRV Birnetal Containers     0.0%     1     Mercury-Containing Items - Not Lamps     0.0%       Tin/Steel Cans - CRV Birnetal Containers     0.0%     0     Remainder/Composite Household Hazardous     0.0%       Tin/Steel Cans - CRV Birnetal Containers     0.0%     0     Remainder/Composite Household Hazardous     0.0%       Major Appliances     0.0%     0     Remainder/Composite Household Hazardous     0.0%       Other Ferrous     2.9.4%     30,726     Special Waste     0.0%       Aluminum Cans - CRV     0.0%     2     Treated Medical Waste     0.0%       Other Ferrous     3.5.4%     37.072     Bulky Items     0.2%       Remainder/Composite Metal     0.1%     125     Treated Medical Waste     0.0%       Other Kon-Ferrous     1.6%     1,627     Remainder/Composite Special Waste     0.0%       Brown Goods     1.6%     1,627     Remainder/Composite Special Waste     0.0%						0
Other Colored Glass Bottles and Containers - CRV0.0%0Other Colored Glass Bottles and Containers - Non-CRV0.0%Household Hazardous Waste0.0%Remainder/Composite Glass0.0%0Vehicle and Equipment Fluids0.0%Metal65.0%68,050Batteries0.0%In/Steel Cans - CRV Bimetal Containers0.0%1Mercury-Containing Items - Not Lamps0.0%In/Steel Cans - Other0.1%84Lamps - Fluorescent and LED0.0%Major Appliances0.0%0Remainder/Composite Household Hazardous0.0%Used Oil Filters0.0%0Remainder/Composite Household Hazardous0.0%Other Firous29,4%30,726Special Waste0.2%Aluminum Cans - CRV0.0%2Treated Medical Waste0.0%Other Forous2.5%2.633Remainder/Composite Household Hazardous0.0%Brown Goods1.6%1.627Mixed Residue0.0%Computer-related Electronics0.7%689Mixed Residue0.0%Order Display Devices - Other0.1%130Mixed Residue0.0%PETE Containers - CRV0.0%3Presciences - CRV0.0%3Video Display Devices - Other0.1%130Presciences - CRV0.0%PETE Containers - CRV0.0%32Presciences - CRV0.0%PETE Containers - CRV0.0%32Presciences - CRV0.0%Miscellanceus Plastic Containers - CRV0.0%3 <td></td> <td></td> <td></td> <td></td> <td></td> <td>1,400</td>						1,400
Other Colored Glass Bottles and Containers - Non-CRV     0.0%     0     Household Hazardous Waste     0.0%       Flat Glass     0.0%     0     Vehicle and Equipment Fluids     0.0%       Metal     65.0%     68.050     Batteries     0.0%       Tin/Steel Cans - CRV Bimetal Containers     0.0%     1     Mercury-Containing Items - Not Lamps     0.0%       Tin/Steel Cans - CRV     0.0%     0     Mercury-Containing Items - Not Lamps     0.0%       Used Oil Filters     0.0%     0     Remainder/Composite Household Hazardous     0.0%       Other Ferrous     29.4%     30,726     Special Waste     0.0%       Alurninum Cans - Non-CRV     0.0%     40     Ash     0.0%       Other Non-Ferrous     35.4%     37,072     Bulky Items     0.2%       Remainder/Composite Metal     0.1%     25%     2,633     Nixed Residue     0.0%       Electronics     2.5%     2,633     Mixed Residue     0.0%     0       Video Display Devices - CRT     0.0%     11%     130     Nixed Residue     0.0%       PETE Containers - RNO-CRV     0.0%     3     16%     1,627     Nixed Residue     0.0%       Video Display Devices - CRT     0.2%     168     11%     130     11%     11%     11% </td <td>Brown Glass Bottles and Containers - Non-CRV</td> <td></td> <td></td> <td>Remainder/Composite Inerts and Other</td> <td>0.0%</td> <td>0</td>	Brown Glass Bottles and Containers - Non-CRV			Remainder/Composite Inerts and Other	0.0%	0
Flat Glass     0.0%     0     Paint     0.0%       Remainder/Composite Glass     0.0%     0     Vehicle and Equipment Fluids     0.0%       Metal     65.0%     68,050     Batteries     0.0%       Tin/Steel Cans - ORV Bimetal Containers     0.1%     84     Lamps - Fluorescent and LED     0.0%       Major Appliances     0.0%     0     Remainder/Composite Household Hazardous     0.0%       Used Oil Filters     0.0%     0     Remainder/Composite Household Hazardous     0.0%       Other Ferrous     29.4%     30,726     Special Waste     0.2%       Aluminum Cans - Non-CRV     0.0%     2     Treated Medical Waste     0.0%       Other Kon-Ferrous     35.4%     37,072     Buiky Items     0.2%       Remainder/Composite Metal     0.1%     125     Treated Medical Waste     0.0%       Brown Goods     1.6%     1.6%     2.5%     2.633     Trested Medical Waste     0.0%       Video Display Devices - CRT     0.2%     166     Mixed Residue     0.0%       Video Display Devices - CRT     0.2%     166     167%     3       Video Display Devices - CRV     0.0%     3     162     166       Video Display Devices - CRV     0.0%     3     162     166	Other Colored Glass Bottles and Containers - CRV					
Remainder/Composite Glass0.0%0.0%Vehicle and Equipment Fluids0.0%Metal65.0%68,050Batteries0.0%Tin/Steel Cans - ORV0.0%1Mercury-Containing Items - Not Lamps0.0%Tin/Steel Cans - Other0.0%1Mercury-Containing Items - Not Lamps0.0%Major Appliances0.0%00Remainder/Composite Household Hazardous0.0%Used Oil Filters0.0%0000Other Ferrous29.4%30,726Special Waste0.2%Aluminum Cans - Non-CRV0.0%402Treated Medical Waste0.0%Other Non-Ferrous35.4%37,072Bulky Items0.2%Remainder/Composite Metal0.1%125Trease0.0%Electronics2.5%2.633Mixed Residue0.0%Other Samu Consumer Flectronics0.0%31627Mixed Residue0.0%Other Display Devices - Other0.0%31627Mixed Residue0.0%PETE Containers - Row-CRV0.0%31627Mixed Residue0.0%Miscellaneous Plastic Containers - CRV0.0%31627178PETE Containers - Sow-CRV0.0%31627178PETE Containers - CRV0.0%31627162Miscellaneous Plastic Containers - CRV0.0%3162162Piastic Tarash Bags0.0%12121212Plastic Tarash Bags0.0%12 </td <td>Other Colored Glass Bottles and Containers - Non-CRV</td> <td></td> <td>-</td> <td>Household Hazardous Waste</td> <td></td> <td>0</td>	Other Colored Glass Bottles and Containers - Non-CRV		-	Household Hazardous Waste		0
Metal65.0%68,050Used Oil0.0%Tin/Steel Cans - CRV Bimetal Containers0.0%1Mercury-Containing Items - Not Lamps0.0%Tin/Steel Cans - Other0.1%84Lamps - Fluorescent and LED0.0%Major Appliances0.0%0Remainder/Composite Household Hazardous0.0%Other Ferrous29.4%30,726Special Waste0.0%Aluminum Cans - CRV0.0%40Ash0.0%Aluminum Cans - Non-CRV0.0%2Treated Medical Waste0.0%Other Non-Ferrous35.4%37.072Bulky Items0.2%Remainder/Composite Metal0.1%125Tires Mander/Composite Special Waste0.0%Electronics2.5%2,633Tires Mainder/Composite Special Waste0.0%Order Small Consumer Electronics0.0%20Wixed Residue0.0%Video Display Devices - Other0.1%130Mixed Residue0.0%Plastic4.2%4,3484.344.34PETE Containers - CRV0.0%34.34Miscellaneous Plastic Containers - Non-CRV0.0%24.34Miscellaneous Plastic Containers - Non-CRV0.0%24.34PETE Containers - Non-CRV0.0%24.34PETE Containers - Non-CRV0.0%24.34Miscellaneous Plastic Containers - Non-CRV0.0%2Miscellaneous Plastic Containers - Non-CRV0.0%0HDPE Containers - Non-CRV0.0%0Mo	Flat Glass	0.0%		Paint	0.0%	0
Metal65.0%68,050Batteries0.0%Tin/Steel Cans - CRV Bimetal Containers0.0%1Mercury-Containing Items - Not Lamps0.0%Major Appliances0.0%00Remainder/Composite Household Hazardous0.0%Used Oil Filters0.0%0000Other Ferrous29.4%30,726Special Waste0.2%Aluminum Cans - CRV0.0%40Ash0.0%0Aluminum Cans - Nor-CRV0.0%2Treated Medical Waste0.0%Other Non-Ferrous35.4%37,072Bulky Items0.2%Remainder/Composite Metal0.1%125Treated Medical Waste0.0%Brown Goods1.6%1,627Nicked Residue0.0%Other Small Consumer Electronics0.7%689Nicked Residue0.0%Video Display Devices - ORT0.1%130Nicked Residue0.0%Piastic4.2%4.348PETE Containers - Non-CRV0.0%3Video Display Devices - ORT0.0%3Nicked Residue140%Video Display Devices - ORT0.0%3Nicked Residue140%Video Display Devices - CRV0.0%3Nicked Residue140%Video Display Devices - CRV0.0%3Nicked Residue140%Video Display Devices - CRV0.0%3Nicked Residue140%PiasticContainers - Non-CRV0.0%3Nicked Residue140%HDPE Containers - Non-CRV0.0	Remainder/Composite Glass	0.0%	0	Vehicle and Equipment Fluids		0
Tin/Steel Cans - CRV Bimetal Containers         0.0%         1         Mercury-Containing Items - Not Lamps         0.0%           Tin/Steel Cans - Other         0.1%         64         Lamps - Fluorescent and LED         0.0%           Major Appliances         0.0%         0         Remainder/Composite Household Hazardous         0.0%           Used OI Filters         0.0%         0         Remainder/Composite Household Hazardous         0.0%           Other Ferrous         29.4%         30,726         Special Waste         0.2%           Aluminum Cans - RV         0.0%         40         Ash         0.0%           Other Ferrous         35.4%         37,072         Bulky Items         0.2%           Remainder/Composite Metal         0.1%         25         Tires         0.0%           Electronics         2.5%         2,633         Remainder/Composite Special Waste         0.0%           Computer-related Electronics         0.0%         20         Witeo Display Devices - CRT         0.2%         166           Video Display Devices - Other         0.1%         130         Mixed Residue         0.0%         2           PETE Containers - Non-CRV         0.0%         3         4.2%         4.348         4.2%         4.267         4.267				Used Oil	0.0%	0
Tin/Steel Cans - Other         0.1%         84         Lamps - Fluorescent and LED         0.0%           Major Appliances         0.0%         0         Remainder/Composite Household Hazardous         0.0%           Used Oil Filters         0.0%         0         Remainder/Composite Household Hazardous         0.0%           Other Ferrous         29.4%         30,726         Special Waste         0.2%           Aluminum Cans - Non-CRV         0.0%         40         Ash         0.0%           Aluminum Cans - Non-CRV         0.0%         2         Treated Medical Waste         0.0%           Other Non-Ferrous         35.4%         37,072         Bulky Items         0.2%           Remainder/Composite Metal         0.1%         125         Tires         0.0%           Brown Goods         1.6%         1,627         Tires         0.0%           Computer-related Electronics         0.0%         20         Mixed Residue         0.0%           Video Display Devices - CRT         0.2%         166         Mixed Residue         0.0%           Video Display Devices - CRV         0.0%         37         PETE Containers - Non-CRV         0.0%         3           PETE Containers - Non-CRV         0.0%         34         Miscellaneous Pla	Metal	65.0%	68,050	Batteries	0.0%	0
Major Appliances0.0%0Remainder/Composite Household Hazardous0.0%Used Oil Filters0.0%00Other Ferrous29.4%30.726Special Waste0.0%Aluminum Cans - CRV0.0%40Ash0.0%Other Non-Ferrous35.4%37.072Bulky Items0.2%Remainder/Composite Metal0.1%125Treated Medical Waste0.0%Electronics2.5%2,633Remainder/Composite Special Waste0.0%Computer-related Electronics0.0%20Kemainder/Composite Special Waste0.0%Other Small Consumer Electronics0.0%20Kited Residue0.0%Other Small Consumer Electronics0.0%20Kited Residue0.0%Plastic4.2%4.348PETE Containers - CRV0.0%3PETE Containers - CRV0.0%310%10%HDPE Containers - Non-CRV0.0%310%10%HDPE Containers - Non-CRV0.0%310%10%HDPE Containers - Non-CRV0.0%310%10%HDPE Containers - Non-CRV0.0%310%10%Hiscellaneous Plastic Containers - Non-CRV0.0%1211%Plastic Grocery and Other Merchandise Bags0.0%012Plastic Grocery and Other Merchandise Bags0.0%011%Non-Bag Commercial and Industrial Packaging Film0.0%011%Other Film - Plexible Plastic Pouches0.0%0	Tin/Steel Cans - CRV Bimetal Containers	0.0%	1	Mercury-Containing Items - Not Lamps	0.0%	0
Used Oil Filters         0.0%         0           Other Ferrous         29.4%         30,726         Special Waste         0.2%           Aluminum Cans - CRV         0.0%         40         Ash         0.0%           Aluminum Cans - Non-CRV         0.0%         2         Treated Medical Waste         0.0%           Other Non-Ferrous         35.4%         37,072         Bulky Items         0.2%           Remainder/Composite Metal         0.1%         125         Tirees         0.0%           Electronics         2.5%         2,633         Remainder/Composite Special Waste         0.0%           Brown Goods         1.6%         1,627         Mixed Residue         0.0%           Other Small Consumer Electronics         0.0%         20         Video Display Devices - CRT         0.2%           Video Display Devices - CRT         0.2%         166         Video Display Devices - CRY         0.0%         3           PETE Containers - Non-CRV         0.0%         3         10%         10%         110           HDPE Containers - Non-CRV         0.0%         3         10%         10%         10%         10%         110%         12%         110%         12%         12%         110%         12%         12% <td>Tin/Steel Cans - Other</td> <td></td> <td>84</td> <td>Lamps - Fluorescent and LED</td> <td>0.0%</td> <td>0</td>	Tin/Steel Cans - Other		84	Lamps - Fluorescent and LED	0.0%	0
Other Ferrous         29.4%         30,726         Special Waste         0.2%           Aluminum Cans - CRV         0.0%         40         Ash         0.0%           Aluminum Cans - Non-CRV         0.0%         2         Treated Medical Waste         0.0%           Other Non-Ferrous         35.4%         37,072         Bulky Items         0.2%           Remainder/Composite Metal         0.1%         125         Tires         0.0%           Electronics         2.5%         2,633         Mixed Residue         0.0%           Computer-related Electronics         0.0%         20         Tires         0.0%           Other Small Consumer Electronics         0.0%         20         Tires         0.0%           Video Display Devices - CRT         0.2%         166         0.0%         167           Video Display Devices - Other         0.0%         3         166         167         166           Video Display Devices - Other         0.0%         3         166         167         168         168         168         168         168         168         168         168         168         168         168         168         168         168         168         168         168         168 <td>Major Appliances</td> <td></td> <td>0</td> <td>Remainder/Composite Household Hazardous</td> <td>0.0%</td> <td>0</td>	Major Appliances		0	Remainder/Composite Household Hazardous	0.0%	0
Aluminum Cans - CRV       0.0%       40       Ash       0.0%         Aluminum Cans - Non-CRV       0.0%       2       Treated Medical Waste       0.0%         Other Kon-Ferrous       35.4%       37,072       Bulky Items       0.2%         Remainder/Composite Metal       0.1%       125       Tires       0.0%         Electronics       2.5%       2,633       Mixed Residue       0.0%         Brown Goods       1.6%       1,627       Mixed Residue       0.0%         Other Konge Electronics       0.7%       689       Mixed Residue       0.0%         Video Display Devices - CRT       0.2%       166       Video Display Devices - CRT       0.2%       166         Video Display Devices - CRV       0.0%       37       PETE Containers - Non-CRV       0.0%       3         PETE Containers - CRV       0.0%       3       HDPE Containers - Non-CRV       0.0%       3         HDPE Containers - CRV       0.0%       3       Automationer - CRV       0.0%       3         HDPE Containers - Non-CRV       0.0%       3       Automationer - CRV       0.0%       2         Miscellaneous Plastic Containers - Non-CRV       0.0%       2       Automation - CRV       2.6%       2.675	Used Oil Filters	0.0%	0			
Aluminum Cans - Non-CRV         0.0%         2         Treated Medical Waste         0.0%           Other Non-Ferrous         35.4%         37,072         Bulky Items         0.2%           Remainder/Composite Metal         0.1%         125         Tires         0.0%           Electronics         2.5%         2,633         Remainder/Composite Special Waste         0.0%           Brown Goods         1.6%         1,627         Mixed Residue         0.0%           Computer-related Electronics         0.7%         689         Mixed Residue         0.0%           Other Small Consumer Electronics         0.0%         20         Video Display Devices - CRT         0.2%         166           Video Display Devices - Other         0.1%         130           5           PETE Containers - CRV         0.0%         3           5         5           PETE Containers - Non-CRV         0.0%         3          5         5         5           Miscellaneous Plastic Containers - CRV         0.0%         3         5         5         5         5           Plastic Trash Bags         0.0%         12         5         5         5         5         5         5	Other Ferrous	29.4%	30,726	Special Waste	0.2%	234
Other Non-Ferrous Remainder/Composite Metal         35.4%         37,072         Bulky Items         0.2%           Remainder/Composite Metal         0.1%         125         Tires         0.0%           Electronics         2.5%         2,633         Mixed Residue         0.0%           Computer-related Electronics         0.7%         689         0.0%         0.0%           Other Small Consumer Electronics         0.0%         20         Video Display Devices - CRT         0.2%         166           Video Display Devices - CRT         0.1%         130         Video Display Devices - CRV         0.0%         20           PETE Containers - CRV         0.0%         37         PETE Containers - Non-CRV         0.0%         33           HDPE Containers - Non-CRV         0.0%         34         Stream	Aluminum Cans - CRV	0.0%	40	Ash	0.0%	0
Remainder/Composite Metal0.1%125Tires0.0% Remainder/Composite Special Waste0.0%Electronics2.5%2,633Mixed Residue0.0%Brown Goods1.6%1,627Mixed Residue0.0%Computer-related Electronics0.0%2000Video Display Devices - CRT0.2%16600Video Display Devices - Other0.1%13000Plastic4.2%4,3489ETE Containers - CRV0.0%37PETE Containers - Non-CRV0.0%3400%34HOPE Containers - Non-CRV0.0%3400%34Miscellaneous Plastic Containers - Non-CRV0.0%20Miscellaneous Plastic Containers - Non-CRV0.0%129Plastic Trash Bags0.0%1299Plastic Grocery and Other Merchandise Bags0.0%00Non-Bag Commercial and Industrial Packaging Film0.0%00Other Film - Fluxible Plastic Pouches0.0%00Other Film - Other0.0%000Other Film - Other0.0%000	Aluminum Cans - Non-CRV	0.0%	2	Treated Medical Waste	0.0%	0
Electronics2.5%2.633Mixed Residue0.0%Brown Goods1.6%1.627Mixed Residue0.0%Computer-related Electronics0.7%6890.0%20Other Small Consumer Electronics0.0%201660.0%Video Display Devices - CRT0.2%1660.0%10Plastic4.2%4.3484.3484.3484.348PETE Containers - CRV0.0%370.0%10HDPE Containers - CRV0.0%344.3484.3484.348Miscellaneous Plastic Containers - CRV0.0%344.3484.348HDPE Containers - Non-CRV0.0%344.3484.3484.348HDPE Containers - CRV0.0%344.3484.3484.348HDPE Containers - CRV0.0%344.3484.3484.348HDPE Containers - CRV0.0%344.3484.3484.348HDPE Containers - CRV0.0%344.3484.3484.348HDPE Containers - CRV0.0%344.3484.3484.348Miscellaneous Plastic Containers - CRV0.0%344.3484.3484.348Miscellaneous Plastic Containers - CRV0.0%2.3464.3484.3484.348Miscellaneous Plastic Containers - CRV0.0%2.36755.3664.3664.366Non-Bag Commercial and Industrial Packaging Film0.0%0.365.3665.3665.366Non-Bag Commercial and In	Other Non-Ferrous	35.4%	37,072	Bulky Items	0.2%	234
Electronics2.5%2,633Brown Goods1.6%1,627Mixed Residue0.0%Computer-related Electronics0.0%20Other Small Consumer Electronics0.0%20Video Display Devices - CRT0.2%166Video Display Devices - Other0.1%130Plastic4.2%4,348PETE Containers - CRV0.0%37PETE Containers - Non-CRV0.0%3HDPE Containers - Non-CRV0.0%3HDPE Containers - Non-CRV0.0%3HDPE Containers - Non-CRV0.0%3Miscellaneous Plastic Containers - Non-CRV0.0%2Miscellaneous Plastic Containers - Non-CRV2.6%2,675Plastic Grocery and Other Merchandise Bags0.0%12Plastic Grocery and Industrial Packaging Film0.0%0Non-Bag Commercial and Industrial Packaging Film0.0%0Other Film - Flexible Plastic Pouches0.0%0Other Film - Other0.0%0	Remainder/Composite Metal	0.1%	125	Tires	0.0%	0
Brown Goods1.6%1.627Mixed Residue0.0%Computer-related Electronics0.7%689Other Small Consumer Electronics0.0%20Video Display Devices - CRT0.2%166Video Display Devices - Other0.1%130Plastic4.2%4,348PETE Containers - CRV0.0%37PETE Containers - Non-CRV0.0%3HDPE Containers - Non-CRV0.0%3HDPE Containers - Non-CRV0.0%3Miscellaneous Plastic Containers - CRV0.0%2Miscellaneous Plastic Containers - Non-CRV2.6%2,675Plastic Grocery and Other Merchandise Bags0.0%0Non-Bag Commercial and Industrial Packaging Film0.0%0Other Film - Flexible Plastic Pouches0.0%0Other Film - Other0.0%0				Remainder/Composite Special Waste	0.0%	0
Computer-related Electronics0.7%689Other Small Consumer Electronics0.0%20Video Display Devices - CRT0.2%166Video Display Devices - Other0.1%130Plastic4.2%4,348PETE Containers - CRV0.0%37PETE Containers - Non-CRV0.0%10HDPE Containers - CRV0.0%34Miscellaneous Plastic Containers - Non-CRV0.0%34Miscellaneous Plastic Containers - Non-CRV0.0%12Plastic Trash Bags0.0%12Plastic Grocery and Other Merchandise Bags0.0%0Non-Bag Commercial and Industrial Packaging Film0.0%0Other Film - Flexible Plastic Pouches0.0%0Other Film - Flexible Plastic Pouches0.0%0Other Film - Other0.0%0	Electronics	2.5%	2,633			
Other Small Consumer Electronics0.0%20Video Display Devices - CRT0.2%166Video Display Devices - Other0.1%130Plastic4.2%4,348PETE Containers - CRV0.0%37PETE Containers - CRV0.0%10HDPE Containers - CRV0.0%3HDPE Containers - CRV0.0%34Miscellaneous Plastic Containers - CRV0.0%2Miscellaneous Plastic Containers - CRV0.0%2Miscellaneous Plastic Containers - Non-CRV2.6%2,675Plastic Trash Bags0.0%12Plastic Grocery and Other Merchandise Bags0.0%0Non-Bag Commercial and Industrial Packaging Film0.0%0Other Film - Flexible Plastic Pouches0.0%0Other Film - Thexible Plastic Pouches0.0%0Other Film - Other0.0%0	Brown Goods	1.6%	1,627	Mixed Residue	0.0%	0
Video Display Devices - CRT0.2%166Video Display Devices - Other0.1%130Plastic4.2%4,348PETE Containers - CRV0.0%37PETE Containers - Non-CRV0.0%10HDPE Containers - CRV0.0%3HDPE Containers - Non-CRV0.0%34Miscellaneous Plastic Containers - CRV0.0%2Miscellaneous Plastic Containers - Non-CRV2.6%2,675Plastic Grocery and Other Merchandise Bags0.0%12Non-Bag Commercial and Industrial Packaging Film0.0%0Other Film - Flexible Plastic Pouches0.0%0Other Film - Other0.0%0	Computer-related Electronics	0.7%	689			
Video Display Devices - Other0.1%130Plastic4.2%4,348PETE Containers - CRV0.0%37PETE Containers - Non-CRV0.0%10HDPE Containers - CRV0.0%34Miscellaneous Plastic Containers - CRV0.0%2Miscellaneous Plastic Containers - Non-CRV2.6%2,675Plastic Trash Bags0.0%12Plastic Grocery and Other Merchandise Bags0.0%0Non-Bag Commercial and Industrial Packaging Film0.0%0Other Film - Flexible Plastic Pouches0.0%0Other Film - Other0.0%0	Other Small Consumer Electronics	0.0%	20			
Plastic4.2%4,348PETE Containers - CRV0.0%37PETE Containers - Non-CRV0.0%10HDPE Containers - CRV0.0%3HDPE Containers - Non-CRV0.0%34Miscellaneous Plastic Containers - CRV0.0%2Miscellaneous Plastic Containers - Non-CRV2.6%2,675Plastic Trash Bags0.0%12Plastic Grocery and Other Merchandise Bags0.0%0Non-Bag Commercial and Industrial Packaging Film0.0%0Other Film - Flexible Plastic Pouches0.0%0Other Film - Flexible Plastic Pouches0.0%0Other Film - Other0.0%6	Video Display Devices - CRT					
PETE Containers - CRV0.0%37PETE Containers - Non-CRV0.0%10HDPE Containers - CRV0.0%3HDPE Containers - Non-CRV0.0%34Miscellaneous Plastic Containers - CRV0.0%2Miscellaneous Plastic Containers - Non-CRV2.6%2,675Plastic Trash Bags0.0%12Plastic Grocery and Other Merchandise Bags0.0%0Non-Bag Commercial and Industrial Packaging Film0.0%0Film Products0.0%0Other Film - Flexible Plastic Pouches0.0%0Other Film - Other0.0%6	Video Display Devices - Other	0.1%	130			
PETE Containers - CRV0.0%37PETE Containers - Non-CRV0.0%10HDPE Containers - CRV0.0%3HDPE Containers - Non-CRV0.0%34Miscellaneous Plastic Containers - CRV0.0%2Miscellaneous Plastic Containers - Non-CRV2.6%2,675Plastic Trash Bags0.0%12Plastic Grocery and Other Merchandise Bags0.0%0Non-Bag Commercial and Industrial Packaging Film0.0%0Film Products0.0%0Other Film - Flexible Plastic Pouches0.0%0Other Film - Other0.0%6	Plastic	4 2%	4 3/9			
PETE Containers - Non-CRV0.0%10HDPE Containers - CRV0.0%3HDPE Containers - Non-CRV0.0%34Miscellaneous Plastic Containers - Non-CRV2.6%2,675Plastic Trash Bags0.0%12Plastic Grocery and Other Merchandise Bags0.0%0Non-Bag Commercial and Industrial Packaging Film0.0%0Film Products0.0%0Other Film - Flexible Plastic Pouches0.0%0Other Film - Other0.0%0						
HDPE Containers - CRV0.0%3HDPE Containers - Non-CRV0.0%34Miscellaneous Plastic Containers - CRV0.0%2Miscellaneous Plastic Containers - Non-CRV2.6%2,675Plastic Trash Bags0.0%12Plastic Grocery and Other Merchandise Bags0.0%0Non-Bag Commercial and Industrial Packaging Film0.0%0Other Film - Flexible Plastic Pouches0.0%0Other Film - Flexible Plastic Pouches0.0%0Other Film - Other0.0%6						
HDPE Containers - Non-CRV     0.0%     34       Miscellaneous Plastic Containers - CRV     0.0%     2       Miscellaneous Plastic Containers - Non-CRV     2.6%     2,675       Plastic Trash Bags     0.0%     12       Plastic Grocery and Other Merchandise Bags     0.0%     0       Non-Bag Commercial and Industrial Packaging Film     0.0%     0       Film Products     0.0%     0       Other Film - Flexible Plastic Pouches     0.0%     0       Other Film - Other     0.0%     6						
Miscellaneous Plastic Containers - CRV0.0%2Miscellaneous Plastic Containers - Non-CRV2.6%2,675Plastic Trash Bags0.0%12Plastic Grocery and Other Merchandise Bags0.0%0Non-Bag Commercial and Industrial Packaging Film0.0%0Film Products0.0%0Other Film - Flexible Plastic Pouches0.0%0Other Film - Other0.0%6						
Miscellaneous Plastic Containers - Non-CRV2.6%2,675Plastic Trash Bags0.0%12Plastic Grocery and Other Merchandise Bags0.0%0Non-Bag Commercial and Industrial Packaging Film0.0%0Film Products0.0%0Other Film - Flexible Plastic Pouches0.0%0Other Film - Other0.0%6						
Plastic Trash Bags0.0%12Plastic Grocery and Other Merchandise Bags0.0%0Non-Bag Commercial and Industrial Packaging Film0.0%0Film Products0.0%0Other Film - Flexible Plastic Pouches0.0%0Other Film - Other0.0%6						
Plastic Grocery and Other Merchandise Bags       0.0%       0         Non-Bag Commercial and Industrial Packaging Film       0.0%       0         Film Products       0.0%       0         Other Film - Flexible Plastic Pouches       0.0%       0         Other Film - Other       0.0%       6						
Non-Bag Commercial and Industrial Packaging Film0.0%0Film Products0.0%0Other Film - Flexible Plastic Pouches0.0%0Other Film - Other0.0%6						
Film Products     0.0%     0       Other Film - Flexible Plastic Pouches     0.0%     0       Other Film - Other     0.0%     6						
Other Film - Flexible Plastic Pouches     0.0%     0       Other Film - Other     0.0%     6						
Other Film - Other 0.0% 6						
		0.0%	2			
				Totals	100%	104,646
Durable Plastic (terms - Other 1.5% 1,00% 10 Remainder/Composite Plastic 0.0% 5 Sampled Streams 72						104,040

### Table 123. Detailed Composition – Disposed: Manufacturing – Food & Nondurable Wholesale

Material	Estimated Percent	+/-	Estimated Tons	Material	Estimated Percent	+/-	Estimated Tons
Paper	23.1%	Ŧ/-	134,277	Other Organic	47.1%	Ŧ/-	274.475
Uncoated Corrugated Cardboard	3.4%	1.1%	19,650	Food	37.8%	6.7%	220,403
Paper Bags	0.4%	0.1%	2,049	Leaves and Grass	3.8%	3.0%	22,170
Newspaper	0.8%	0.3%	4,523	Prunings and Trimmings	0.1%	0.2%	837
White Ledger Paper	1.2%	0.5%	7,177	Branches and Stumps	0.3%	0.5%	1,878
Other Office Paper	1.5%	0.6%	8,568	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.4%	0.2%	2,162	Textiles	1.3%	0.5%	7,473
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	0.7%	0.5%	4,187	Remainder/Composite Organic	3.7%	2.3%	21,714
Other Miscellaneous Paper - Other	3.3%	1.4%	19,170				
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.1%	0.0%	468	Inerts and Other	8.1%	0 50/	47,024
Remainder/Composite Paper - Compostable	7.8% 3.6%	1.5% 1.2%	45,184	Concrete	0.3% 0.0%	0.5% 0.0%	1,768
Remainder/Composite Paper - Other	3.0%	1.2%	21,140	Asphalt Paving	0.0%	0.0%	0 0
Glass	1.4%		8,216	Asphalt Roofing Clean Dimensional Lumber	0.0%	0.0%	3,330
Clear Glass Bottles and Containers - CRV	0.3%	0.2%	1.476	Clean Engineered Wood	1.1%	1.5%	6.332
Clear Glass Bottles and Containers - Non-CRV	0.5%	0.2 %	3,204	Clean Pallets & Crates	4.0%	1.8%	23,205
Green Glass Bottles and Containers - CRV	0.0%	0.0%	993	Other Wood Waste	1.1%	0.8%	6,261
Green Glass Bottles and Containers - Non-CRV	0.2%	0.1%	259	Gypsum Board	0.1%	0.0%	393
Brown Glass Bottles and Containers - CRV	0.0%	0.2%	927	Rock, Soil and Fines	0.8%	1.0%	4,445
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	67	Remainder/Composite Inerts and Other	0.2%	0.2%	1,290
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0	Remainder/Composite mone and Other	0.270	0.270	1,200
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	ŏ	Household Hazardous Waste	0.3%		1,504
Flat Glass	0.0%	0.0%	Ō	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.2%	0.2%	1,291	Vehicle and Equipment Fluids	0.0%	0.0%	0
·				Used Oil	0.0%	0.0%	0
Metal	1.5%		8,868	Batteries	0.0%	0.0%	119
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	187	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.4%	0.3%	2,510	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.2%	0.4%	1,385
Used Oil Filters	0.0%	0.0%	11				
Other Ferrous	0.1%	0.1%	703	Special Waste	0.7%		4,254
Aluminum Cans - CRV	0.1%	0.0%	607	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	35	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.3%	0.3%	1,833	Bulky Items	0.7%	1.2%	4,238
Remainder/Composite Metal	0.5%	0.4%	2,982	Tires	0.0%	0.0%	0
Electronics	0.8%		4,583	Remainder/Composite Special Waste	0.0%	0.0%	17
Brown Goods	0.7%	0.8%	<b>4,363</b> 3,872	Mixed Residue	0.0%	0.1%	229
Computer-related Electronics	0.7%	0.0%	218	WINCU Residue	0.0 %	0.170	225
Other Small Consumer Electronics	0.0%	0.0%	493				
Video Display Devices - CRT	0.1%	0.0%	433				
Video Display Devices - Other	0.0%	0.0%	Ő				
	01070	0.070	Ũ				
Plastic	17.0%		99,055				
PETE Containers - CRV	0.2%	0.2%	1,438				
PETE Containers - Non-CRV	0.2%	0.2%	1,312				
HDPE Containers - CRV	0.0%	0.0%	99				
HDPE Containers - Non-CRV	0.3%	0.2%	1,768				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	21				
Miscellaneous Plastic Containers - Non-CRV	0.6%	0.7%	3,392				
Plastic Trash Bags	1.6%	0.3%	9,153				
Plastic Grocery and Other Merchandise Bags	0.1%	0.0%	461				
Non-Bag Commercial and Industrial Packaging Film	3.9%	2.0%	22,574				
Film Products	0.0%	0.0%	0				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	249				
Other Film - Other	5.6%	3.1%	32,345				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.7%	0.5%	4,167	Tatala	4000/		E00 400
Durable Plastic Items - Other Remainder/Composite Plastic	0.3% 3.4%	0.2% 1.0%	2,006 20,070	Totals Sampled Streams	100% 53		582,486
Confidence intervals calculated at the 90% confidence level. Percent			,	•	33		

# Table 124. Detailed Composition – Curbside Recycle: Manufacturing – Food &Nondurable Wholesale

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	69.2%		15,058	Other Organic	0.9%		207
Uncoated Corrugated Cardboard		11.7%	9,158	Food	0.7%	1.0%	155
Paper Bags	0.3%		67	Leaves and Grass	0.0%	0.0%	5
Newspaper	1.5%	1.5%	327	Prunings and Trimmings	0.0%	0.0%	2
White Ledger Paper	6.8%	6.6%	1,477	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	2.6%	2.4%	573	Manures	0.0%	0.0%	0
Magazines and Catalogs	5.2%	6.3%	1,135	Textiles	0.2%	0.2%	44
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	1.0%	1.0%	209	Remainder/Composite Organic	0.0%	0.0%	0
Other Miscellaneous Paper - Other	8.1%		1,769				
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%		3	Inerts and Other	0.1%		22
Remainder/Composite Paper - Compostable	0.2%	0.2%	40	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	1.4%	1.2%	301	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	11.6%		2,526	Clean Dimensional Lumber	0.1%	0.2%	22
Clear Glass Bottles and Containers - CRV	0.3%		71	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	3.4%		733	Clean Pallets & Crates	0.0%	0.0%	0
Green Glass Bottles and Containers - CRV	0.0%		0	Other Wood Waste	0.0%	0.0%	0
Green Glass Bottles and Containers - Non-CRV	5.4%	5.7%	1,180	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	1.4%	1.5%	298	Rock, Soil and Fines	0.0%	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%		2	Remainder/Composite Inerts and Other	0.0%	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%		0				
Other Colored Glass Bottles and Containers - Non-CRV	1.1%		243	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%		0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	0	Vehicle and Equipment Fluids	0.0%	0.0%	0
				Used Oil	0.0%	0.0%	0
Metal	0.5%		102	Batteries	0.0%	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.0%		0	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.1%		30	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%		0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
Used Oil Filters	0.0%		0				
Other Ferrous	0.2%		33	Special Waste	0.0%		0
Aluminum Cans - CRV	0.1%		32	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%		0	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.0%		7	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.0%	0.0%	0	Tires	0.0%	0.0%	0
Fleetnewice	0.00/			Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%	0.00/	4	Mined Desides	0.00/	0.00/	•
Brown Goods	0.0%		0	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%		-				
Other Small Consumer Electronics	0.0%		4				
Video Display Devices - CRT	0.0% 0.0%		0				
Video Display Devices - Other	0.0%	0.0%	0				
Plastic	17.7%		3.849				
PETE Containers - CRV	0.9%	1.1%	197				
PETE Containers - Non-CRV	5.8%		1,265				
HDPE Containers - CRV	0.0%		1,205				
HDPE Containers - Non-CRV	0.2%		36				
Miscellaneous Plastic Containers - CRV	0.2%		0				
Miscellaneous Plastic Containers - Non-CRV	0.0%		196				
Plastic Trash Bags	0.9%		40				
Plastic Grocery and Other Merchandise Bags	0.2 %		27				
Non-Bag Commercial and Industrial Packaging Film	3.4%		736				
Film Products	0.6%		121				
Other Film - Flexible Plastic Pouches	0.0%		121				
Other Film - Other	0.0%		137				
Durable Plastic Items - #2 and #5 Bulky Rigids	1.5%		337				
Durable Plastic Items - #2 and #5 Burky Rigids Durable Plastic Items - Other	2.6%		569	Totals	100%		21,768
Remainder/Composite Plastic	0.8%		183	Sampled Streams	100 %		21,700
Confidence intervals calculated at the 90% confidence level. Percent							

### Table 125. Detailed Composition – Curbside Organics: Manufacturing – Food &Nondurable Wholesale

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	2.2%		119	Other Organic	92.0%		4.958
Uncoated Corrugated Cardboard	0.0%	0.0%	0	Food		23.2%	4,821
Paper Bags	0.0%	0.0%	0	Leaves and Grass	2.5%		136
Newspaper	0.0%	0.0%	Õ	Prunings and Trimmings	0.0%		0
White Ledger Paper	0.0%	0.0%	0	Branches and Stumps	0.0%		0
Other Office Paper	0.0%	0.0%	0	Manures	0.0%		0
Magazines and Catalogs	0.0%	0.0%	0	Textiles	0.0%		0
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	1.8%	0.5%	95	Remainder/Composite Organic	0.0%	0.0%	0
Other Miscellaneous Paper - Other	0.2%	0.1%	10				
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0.0%	0	Inerts and Other	5.8%		310
Remainder/Composite Paper - Compostable	0.3%	0.1%	14	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.0%	0.0%	0	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	0.0%		0	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	0.0%	0.0%	0	Clean Engineered Wood	0.0%		0
Clear Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Clean Pallets & Crates	0.0%	0.0%	0
Green Glass Bottles and Containers - CRV	0.0%	0.0%	Õ	Other Wood Waste	0.0%		Ō
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Õ	Gypsum Board	0.0%		Ō
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	Õ	Rock, Soil and Fines		17.4%	310
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Ő	Remainder/Composite Inerts and Other	0.0%		0
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	Ő	remainder/composite mente and other	0.070	0.070	Ŭ
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Ő	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	Ő	Vehicle and Equipment Fluids	0.0%		0 0
Remainder/outiposite Glass	0.070	0.070	0	Used Oil	0.0%		0 0
Metal	0.1%		4	Batteries	0.0%		0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	<b>-</b>	Mercury-Containing Items - Not Lamps	0.0%		0
Tin/Steel Cans - Other	0.0%	0.0%	0	Lamps - Fluorescent and LED	0.0%		0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous			0
Used Oil Filters	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.070	0.070	0
Other Ferrous	0.0%	0.0%	0	Special Waste	0.0%		0
Aluminum Cans - CRV	0.0%	0.0%	0	Ash	0.0%	0.0%	0
Aluminum Cans - CRV Aluminum Cans - Non-CRV	0.0%	0.0%	0	Treated Medical Waste	0.0%		0
Other Non-Ferrous	0.0%	0.0%	0	Bulky Items	0.0%		0
Remainder/Composite Metal	0.0%	0.0%	4	Tires	0.0%		0
Remainder/Composite Metal	0.170	0.070	-	Remainder/Composite Special Waste	0.0%		0
Electronics	0.0%		0	Remainder/Composite Special Waste	0.070	0.070	0
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	0	Mixed Residue	0.070	0.070	Ŭ
Other Small Consumer Electronics	0.0%	0.0%	0				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
video Display Devices - Other	0.070	0.070	0				
Plastic	0.0%		0				
PETE Containers - CRV	0.0%	0.0%	0				
PETE Containers - Non-CRV	0.0%	0.0%	0				
HDPE Containers - CRV	0.0%	0.0%	0				
HDPE Containers - Non-CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - CRV Miscellaneous Plastic Containers - Non-CRV	0.0%	0.0%	0				
	0.0%	0.0%	0				
Plastic Trash Bags	0.0%	0.0%	0				
Plastic Grocery and Other Merchandise Bags	0.0%	0.0%	0				
Non-Bag Commercial and Industrial Packaging Film							
Film Products	0.0%	0.0%	0				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	0				
Other Film - Other	0.0%	0.0%	0				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0.0%	0	<b>T</b> : ( ) (	4		
Durable Plastic Items - Other	0.0%	0.0%	0	Totals	100%		5,392
Remainder/Composite Plastic	0.0%	0.0%	0	Sampled Streams	4		

### Table 126. Detailed Composition – Other Diversion: Manufacturing – Food &Nondurable Wholesale

	Estimated	Estimated		Estimated	Estimated
Material	Percent	Tons	Material	Percent	Tons
Paper	4.5%	10,666	Other Organic	71.2%	166,880
Uncoated Corrugated Cardboard	4.3%	10,192	Food	68.1%	159,682
Paper Bags	0.0%	2	Leaves and Grass	3.1%	7,197
Newspaper	0.0%	ō	Prunings and Trimmings	0.0%	0
White Ledger Paper	0.0%	63	Branches and Stumps	0.0%	Ō
Other Office Paper	0.0%	28	Manures	0.0%	Ō
Magazines and Catalogs	0.0%	0	Textiles	0.0%	0
Phone Books and Directories	0.0%	Õ	Carpet	0.0%	Ō
Other Miscellaneous Paper - Compostable	0.0%	0	Remainder/Composite Organic	0.0%	0
Other Miscellaneous Paper - Other	0.2%	381	rtemainaei, eempeene ergame	0.070	Ũ
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0	Inerts and Other	22.9%	53,660
Remainder/Composite Paper - Compostable	0.0%	õ	Concrete	0.0%	0
Remainder/Composite Paper - Other	0.0%	õ	Asphalt Paving	0.0%	Õ
	0.070	0	Asphalt Roofing	0.0%	Õ
Glass	0.0%	0	Clean Dimensional Lumber	0.0%	Ő
Clear Glass Bottles and Containers - CRV	0.0%	Ő	Clean Engineered Wood	0.0%	õ
Clear Glass Bottles and Containers - Non-CRV	0.0%	Ő	Clean Pallets & Crates	22.7%	53,288
Green Glass Bottles and Containers - CRV	0.0%	Ő	Other Wood Waste	0.0%	00,200
Green Glass Bottles and Containers - Non-CRV	0.0%	Ő	Gypsum Board	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	0	Rock, Soil and Fines	0.2%	373
Brown Glass Bottles and Containers - Non-CRV	0.0%	0 0	Remainder/Composite Inerts and Other	0.0%	0,0
Other Colored Glass Bottles and Containers - CRV	0.0%	0	Remainder/Composite mens and Other	0.078	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0	Household Hazardous Waste	0.0%	0
Flat Glass	0.0%	0	Paint	0.0%	0
Remainder/Composite Glass	0.0%	0	Vehicle and Equipment Fluids	0.0%	0
Remainder/Composite Glass	0.078	0	Used Oil	0.0%	0
Metal	1.1%	2,538	Batteries	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	2,556	Mercury-Containing Items - Not Lamps	0.0%	0
	0.0%	36	Lamps - Fluorescent and LED	0.0%	0
Tin/Steel Cans - Other Major Appliances	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0
Used Oil Filters	0.0%	0	Remainder/Composite Household Hazardous	0.078	0
Other Ferrous	1.1%	2,495	Special Waste	0.0%	78
Aluminum Cans - CRV	0.0%	2,495	Ash	0.0%	<b>/6</b> 0
Aluminum Cans - CRV Aluminum Cans - Non-CRV	0.0%	0	Treated Medical Waste	0.0%	0
Other Non-Ferrous	0.0%	0	Bulky Items	0.0%	78
Remainder/Composite Metal	0.0%	0	Tires	0.0%	0
	0.078	0	Remainder/Composite Special Waste	0.0%	0
Electronics	0.0%	108	Remainder/Composite Special Waste	0.078	0
Brown Goods	0.0%	0	Mixed Residue	0.0%	0
Computer-related Electronics	0.0%	106	WINED RESIDUE	0.076	0
Other Small Consumer Electronics	0.0%	108			
	0.0%	1			
Video Display Devices - CRT	0.0%	0			
Video Display Devices - Other	0.078	0			
Plastic	0.2%	555			
PETE Containers - CRV	0.0%	2			
PETE Containers - Non-CRV	0.0%	ō			
HDPE Containers - CRV	0.0%	õ			
HDPE Containers - Non-CRV	0.0%	Õ			
Miscellaneous Plastic Containers - CRV	0.0%	0			
Miscellaneous Plastic Containers - Non-CRV	0.0%	Ő			
Plastic Trash Bags	0.0%	0			
Plastic Grocery and Other Merchandise Bags	0.0%	Ő			
Non-Bag Commercial and Industrial Packaging Film	0.0%	Ő			
Film Products	0.0%	51			
Other Film - Flexible Plastic Pouches	0.0%	0			
Other Film - Other	0.0%	0			
Durable Plastic Items - #2 and #5 Bulky Rigids	0.2%	503			
	0.2%	0	Totals	100%	234,486
Durable Plastic Items - Other					

#### Table 127. Detailed Composition – Disposed: Manufacturing – All Other

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	25.1%	-	96,612	Other Organic	20.3%		78.076
Uncoated Corrugated Cardboard	4.4%	2.5%	16,996	Food	7.0%	1.9%	26,907
Paper Bags	0.3%	0.1%	989	Leaves and Grass	0.8%	0.8%	3,185
Newspaper	0.6%	0.3%	2,387	Prunings and Trimmings	0.7%	1.0%	2,541
White Ledger Paper	2.7%	1.1%	10,472	Branches and Stumps	1.5%	1.8%	5,840
Other Office Paper	1.9%	0.9%	7,363	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.6%	0.3%	2,185	Textiles	4.4%	3.3%	17.024
Phone Books and Directories	0.1%	0.2%	470	Carpet	0.4%	0.6%	1,433
Other Miscellaneous Paper - Compostable	0.6%	0.8%	2,229	Remainder/Composite Organic	5.5%	2.2%	21,146
Other Miscellaneous Paper - Other	2.8%	0.8%	10,913				,
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.2%	0.2%	619	Inerts and Other	28.3%		108,633
Remainder/Composite Paper - Compostable	7.7%	1.6%	29,777	Concrete	0.4%	0.7%	1,726
Remainder/Composite Paper - Other	3.2%	1.3%	12,213	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	2
Glass	0.6%		2,168	Clean Dimensional Lumber	4.9%	3.0%	18,804
Clear Glass Bottles and Containers - CRV	0.1%	0.1%	441	Clean Engineered Wood	0.9%	0.8%	3,444
Clear Glass Bottles and Containers - Non-CRV	0.0%	0.0%	70	Clean Pallets & Crates	5.6%	3.3%	21,632
Green Glass Bottles and Containers - CRV	0.0%	0.0%	27	Other Wood Waste	8.2%	4.3%	31,430
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	86	Gypsum Board	1.4%	1.5%	5,215
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	98	Rock, Soil and Fines	0.7%	0.9%	2,568
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.1%	191	Remainder/Composite Inerts and Other	6.2%	3.6%	23,810
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0				
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.9%		3,476
Flat Glass	0.3%	0.5%	1,144	Paint	0.8%	0.8%	2,930
Remainder/Composite Glass	0.0%	0.0%	111	Vehicle and Equipment Fluids	0.0%	0.0%	83
				Used Oil	0.0%	0.0%	7
Metal	8.5%		32,592	Batteries	0.0%	0.0%	53
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	85	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.3%	0.2%	1,006	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.5%	0.8%	1,907	Remainder/Composite Household Hazardous	0.1%	0.2%	403
Used Oil Filters	0.0%	0.0%	54				
Other Ferrous	4.7%	2.7%	18,172	Special Waste	2.2%		8,310
Aluminum Cans - CRV	0.1%	0.0%	417	Ash	0.0%	0.0%	86
Aluminum Cans - Non-CRV	0.0%	0.0%	121	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	2.2%	2.4%	8,358	Bulky Items	1.9%	2.3%	7,269
Remainder/Composite Metal	0.6%	0.4%	2,473	Tires	0.2%	0.4%	956
				Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.6%		2,283				
Brown Goods	0.2%	0.4%	835	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	0				
Other Small Consumer Electronics	0.0%	0.0%	0				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.4%	0.6%	1,448				
Plastic	13.6%		52,142				
PETE Containers - CRV	0.3%	0.1%	967				
PETE Containers - Non-CRV	0.1%	0.0%	216				
HDPE Containers - CRV	0.1%	0.1%	260				
HDPE Containers - Non-CRV	0.2%	0.1%	906				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	47				
Miscellaneous Plastic Containers - Non-CRV	0.2%	0.1%	673				
Plastic Trash Bags	1.2%	0.3%	4,705				
Plastic Grocery and Other Merchandise Bags	0.1%	0.1%	542				
Non-Bag Commercial and Industrial Packaging Film	1.9%	0.8%	7,167				
Film Products	0.0%	0.1%	168				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	46				
Other Film - Other	1.6%	0.6%	6,127				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.2%	0.1%	633				
Durable Plastic Items - Other	1.0%	0.9%	3,905	Totals	100%		384,292
Remainder/Composite Plastic	6.7%	2.7%	25,780	Sampled Streams	53		

#### Table 128. Detailed Composition – Curbside Recycle: Manufacturing – All Other

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	81.9%	-	72,799	Other Organic	0.6%	-	497
Uncoated Corrugated Cardboard		16.7%	25,254	Food	0.1%	0.1%	73
Paper Bags	0.7%	0.7%	612	Leaves and Grass	0.5%		411
Newspaper	0.7%	1.4%	666	Prunings and Trimmings	0.0%		0
White Ledger Paper	3.5%	4.4%	3,086	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	30.8%	33.4%	27,354	Manures	0.0%	0.0%	0
Magazines and Catalogs	11.2%	7.1%	9,969	Textiles	0.0%	0.0%	14
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	5.4%	7.2%	4,803	Remainder/Composite Organic	0.0%	0.0%	0
Other Miscellaneous Paper - Other	0.6%	0.8%	517				
Remainder/Composite Paper - Rigid Food & Beverage Cartons		0.0%	15	Inerts and Other	11.2%		9,994
Remainder/Composite Paper - Compostable	0.1%	0.1%	52	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.5%	0.6%	471	Asphalt Paving	0.0%		0
				Asphalt Roofing	0.0%		0
Glass	0.1%		102	Clean Dimensional Lumber	11.2%		9,994
Clear Glass Bottles and Containers - CRV	0.0%	0.1%	32	Clean Engineered Wood	0.0%		0
Clear Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Clean Pallets & Crates	0.0%		0
Green Glass Bottles and Containers - CRV	0.0%	0.1%	43	Other Wood Waste	0.0%	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	27	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	0	Rock, Soil and Fines	0.0%	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0	11 I . I I I I I <b>W</b>	0.00/		
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		11
Flat Glass	0.0%	0.0%	0	Paint	0.0%		0
Remainder/Composite Glass	0.0%	0.0%	0	Vehicle and Equipment Fluids	0.0%	0.0%	0
Matal	0.49/		200	Used Oil	0.0%	0.0%	0
Metal	0.4%	0.00/	386	Batteries	0.0%		11
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	0	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.0%	0.0%	-	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	s 0.0%	0.0%	0
Used Oil Filters	0.0% 0.4%	0.0%	0 364	Special Wests	0.0%		0
Other Ferrous Aluminum Cans - CRV	0.4%	0.5% 0.0%	364 15	Special Waste Ash	0.0%	0.0%	0
Aluminum Cans - CRV Aluminum Cans - Non-CRV	0.0%	0.0%	0	Treated Medical Waste	0.0%		0
Other Non-Ferrous	0.0%	0.0%	7	Bulky Items	0.0%		0
Remainder/Composite Metal	0.0%	0.0%	0	Tires	0.0%	0.0%	0
Remainder/Composite Metal	0.078	0.076	0	Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		0	Remainder/Composite Opecial Waste	0.070	0.070	0
Brown Goods	0.0%	0.0%	õ	Mixed Residue	0.8%	1.5%	695
Computer-related Electronics	0.0%	0.0%	ŏ		01070		
Other Small Consumer Electronics	0.0%	0.0%	Ō				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Plastic	4.9%		4,383				
PETE Containers - CRV	0.2%	0.2%	190				
PETE Containers - Non-CRV	0.0%	0.0%	0				
HDPE Containers - CRV	0.0%	0.0%	5				
HDPE Containers - Non-CRV	0.2%	0.2%	151				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	0.5%	0.5%	403				
Plastic Trash Bags	0.0%	0.0%	0				
Plastic Grocery and Other Merchandise Bags	0.0%	0.0%	18				
Non-Bag Commercial and Industrial Packaging Film	0.7%	0.8%	592				
Film Products	0.0%	0.0%	1				
Other Film - Flexible Plastic Pouches	0.2%	0.3%	163				
Other Film - Other	1.3%	1.5%	1,172				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.2%	0.3%	165				
Durable Plastic Items - Other	1.6%	2.4%	1,395	Totals	100%		88,868
Remainder/Composite Plastic Confidence intervals calculated at the 90% confidence level. Percent	0.1%	0.1%	128	Sampled Streams	17		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

Table 129. Detailed Composition – Curbside Organics: Manufacturing – All OtherNone of the selected Manufacturing – All Other sites had a Curbside Organics stream.

#### Table 130. Detailed Composition – Other Diversion: Manufacturing – All Other

	Estimated	Estimated		Estimated	Estimated
Material	Percent	Tons	Material	Percent	Tons
Paper	29.4%	234,258	Other Organic	0.0%	0
Uncoated Corrugated Cardboard	5.2%	41,146	Food	0.0%	0
Paper Bags	0.0%	0	Leaves and Grass	0.0%	0
Newspaper	0.0%	0	Prunings and Trimmings	0.0%	0
White Ledger Paper	3.3%	26,503	Branches and Stumps	0.0%	0
Other Office Paper	0.1%	454	Manures	0.0%	0
Magazines and Catalogs	0.0%	0	Textiles	0.0%	0
Phone Books and Directories	0.0%	0	Carpet	0.0%	0
Other Miscellaneous Paper - Compostable	0.0%	0	Remainder/Composite Organic	0.0%	0
Other Miscellaneous Paper - Other	20.8%	165,973			
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0	Inerts and Other	3.4%	26,859
Remainder/Composite Paper - Compostable	0.0%	0	Concrete	0.0%	0
Remainder/Composite Paper - Other	0.0%	182	Asphalt Paving	0.0%	0
			Asphalt Roofing	0.0%	0
Glass	0.1%	490	Clean Dimensional Lumber	0.0%	0
Clear Glass Bottles and Containers - CRV	0.0%	343	Clean Engineered Wood	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.0%	0	Clean Pallets & Crates	3.4%	26,859
Green Glass Bottles and Containers - CRV	0.0%	0	Other Wood Waste	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.0%	0	Gypsum Board	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	147	Rock, Soil and Fines	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0			
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0	Household Hazardous Waste	0.0%	1
Flat Glass	0.0%	0	Paint	0.0%	0
Remainder/Composite Glass	0.0%	0	Vehicle and Equipment Fluids	0.0%	0
•			Used Oil	0.0%	0
Metal	66.2%	527,081	Batteries	0.0%	1
Tin/Steel Cans - CRV Bimetal Containers	0.0%	6	Mercury-Containing Items - Not Lamps	0.0%	0
Tin/Steel Cans - Other	0.0%	0	Lamps - Fluorescent and LED	0.0%	0
Major Appliances	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0
Used Oil Filters	0.0%	0	·		
Other Ferrous	44.1%	351,011	Special Waste	0.0%	0
Aluminum Cans - CRV	0.0%	210	Ash	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0	Treated Medical Waste	0.0%	0
Other Non-Ferrous	22.1%	175,854	Bulky Items	0.0%	0
Remainder/Composite Metal	0.0%	´ 0	Tires	0.0%	0
			Remainder/Composite Special Waste	0.0%	Ō
Electronics	0.4%	3,256			
Brown Goods	0.0%	0	Mixed Residue	0.0%	0
Computer-related Electronics	0.3%	2,352			
Other Small Consumer Electronics	0.0%	_,			
Video Display Devices - CRT	0.0%	362			
Video Display Devices - Other	0.1%	541			
Plastic	0.6%	4,774			
PETE Containers - CRV	0.1%	588			
PETE Containers - Non-CRV	0.0%	0			
HDPE Containers - CRV	0.0%	23			
HDPE Containers - Non-CRV	0.0%	0			
Miscellaneous Plastic Containers - CRV	0.0%	0			
Miscellaneous Plastic Containers - Non-CRV	0.0%	0			
Plastic Trash Bags	0.0%	0			
Plastic Grocery and Other Merchandise Bags	0.0%	0			
Non-Bag Commercial and Industrial Packaging Film	0.0%	0			
Film Products	0.0%	90			
Other Film - Flexible Plastic Pouches	0.0%	0			
Other Film - Other	0.0%	0			
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	10			
Durable Plastic Items - Other	0.1%	466	Totals	100%	796,718
Remainder/Composite Plastic	0.5%	3,596	Sampled Streams	74	,

#### Table 131. Detailed Composition – Disposed: Medical & Health

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	25.9%		259,993	Other Organic	54.6%		548.122
Uncoated Corrugated Cardboard	1.9%	0.6%	18,676	Food	21.6%	2.7%	216,983
Paper Bags	0.2%	0.0%	1,801	Leaves and Grass	2.6%	1.6%	26,201
Newspaper	2.5%	0.6%	24.923	Prunings and Trimmings	1.5%	2.0%	15,048
White Ledger Paper	1.4%	0.4%	14.281	Branches and Stumps	0.0%	0.0%	10,040
Other Office Paper	1.9%	0.5%	19,249	Manures	1.1%	1.0%	10,763
Magazines and Catalogs	0.6%	0.3%	5.632	Textiles	2.3%	0.8%	23.161
	0.0%						-, -
Phone Books and Directories		0.3%	1,916	Carpet	1.7%	1.7%	16,583
Other Miscellaneous Paper - Compostable	0.1%	0.1%	1,192	Remainder/Composite Organic	23.9%	3.7%	239,384
Other Miscellaneous Paper - Other	2.6%	0.5%	25,585		0.00/		~~ ~~~
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.6%	0.4%	5,525	Inerts and Other	3.0%		29,736
Remainder/Composite Paper - Compostable	10.9%	2.7%	109,841	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	3.1%	1.8%	31,373	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	0.5%		4,805	Clean Dimensional Lumber	0.0%	0.0%	2
Clear Glass Bottles and Containers - CRV	0.2%	0.1%	1,692	Clean Engineered Wood	0.1%	0.1%	798
Clear Glass Bottles and Containers - Non-CRV	0.1%	0.1%	820	Clean Pallets & Crates	1.6%	1.7%	15,611
Green Glass Bottles and Containers - CRV	0.0%	0.0%	293	Other Wood Waste	0.8%	0.9%	7,603
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	145	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	206	Rock, Soil and Fines	0.6%	0.9%	5.611
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	222	Remainder/Composite Inerts and Other	0.0%	0.0%	111
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%			0.070	0.070	
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	19	Household Hazardous Waste	0.1%		968
Flat Glass	0.0%	0.0%	214	Paint	0.0%	0.0%	18
Remainder/Composite Glass	0.0%	0.0%	1,193	Vehicle and Equipment Fluids	0.0%	0.0%	0
Remainder/Composite Glass	0.176	0.170	1,195		0.0%	0.0%	0
Matal	4 60/		45 007	Used Oil			
Metal	1.6%	0.00/	15,997	Batteries	0.0%	0.0%	24
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	_ 222	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.7%	0.3%	7,261	Lamps - Fluorescent and LED	0.0%	0.0%	7
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.1%	0.1%	918
Used Oil Filters	0.0%	0.0%	0				
Other Ferrous	0.2%	0.1%	2,222	Special Waste	2.0%		19,589
Aluminum Cans - CRV	0.1%	0.1%	1,419	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	333	Treated Medical Waste	0.4%	0.4%	3,963
Other Non-Ferrous	0.2%	0.1%	1.668	Bulky Items	0.3%	0.5%	2.782
Remainder/Composite Metal	0.3%	0.4%	2,872	Tires	0.0%	0.0%	0
·····			_,	Remainder/Composite Special Waste	1.3%	0.8%	12,844
Electronics	0.2%		2,379	riemandel, composite opecial tracte	11070	0.070	,
Brown Goods	0.0%	0.0%	2,010	Mixed Residue	2.7%	2.5%	27,487
Computer-related Electronics	0.0%	0.0%	2,379	Mixed Residue	2.7 /0	2.370	27,407
	0.2 %	0.4%	2,379				
Other Small Consumer Electronics							
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Directo	0 40/						
Plastic	9.4%		94,240				
PETE Containers - CRV	0.2%	0.0%	2,025				
PETE Containers - Non-CRV	0.1%	0.0%	1,151				
HDPE Containers - CRV	0.1%	0.1%	1,282				
HDPE Containers - Non-CRV	0.4%	0.1%	4,416				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	383				
Miscellaneous Plastic Containers - Non-CRV	0.3%	0.1%	3,416				
Plastic Trash Bags	2.7%	0.4%	27,308				
Plastic Grocery and Other Merchandise Bags	0.2%	0.1%	1,513				
Non-Bag Commercial and Industrial Packaging Film	0.0%	0.1%	482				
Film Products	0.0%	0.0%	46				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	198				
Other Film - Other	1.9%	0.8%	19,229				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0.0%	202				
Durable Plastic Items - Other	0.4%	0.2%	3,879	Totals	100%		1,003,316
Remainder/Composite Plastic	2.9%	0.6%	28,711	Sampled Streams	55		

#### Table 132. Detailed Composition – Curbside Recycle: Medical & Health

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	90.0%		67,359	Other Organic	1.3%		943
Uncoated Corrugated Cardboard	60.3%	6.7%	45,116	Food	1.2%	1.5%	915
Paper Bags	0.6%	0.5%	474	Leaves and Grass	0.0%	0.0%	0
Newspaper	6.2%	4.6%	4,670	Prunings and Trimmings	0.0%	0.0%	õ
White Ledger Paper	5.1%	3.8%	3.822	Branches and Stumps	0.0%	0.0%	Ō
Other Office Paper	7.1%	4.0%	5,319	Manures	0.0%	0.0%	Ō
Magazines and Catalogs	5.4%	1.9%	4,068	Textiles	0.0%	0.0%	20
Phone Books and Directories	0.0%	0.0%	14	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	1.0%	1.0%	738	Remainder/Composite Organic	0.0%	0.0%	9
Other Miscellaneous Paper - Other	2.7%	1.3%	2,046	· · · · · · · · · · · · · · · · · · ·			•
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.5%	0.4%	395	Inerts and Other	0.1%		39
Remainder/Composite Paper - Compostable	0.3%	0.3%	219	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.6%	0.3%	478	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	Ō
Glass	0.4%		264	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	0.1%	0.2%	104	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.1%	0.2%	76	Clean Pallets & Crates	0.0%	0.0%	0
Green Glass Bottles and Containers - CRV	0.0%	0.0%	0	Other Wood Waste	0.0%	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Gypsum Board	0.0%	0.0%	Ō
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	0	Rock, Soil and Fines	0.0%	0.0%	Ō
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Remainder/Composite Inerts and Other	0.1%	0.1%	39
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0				
Other Colored Glass Bottles and Containers - Non-CRV	0.1%	0.2%	62	Household Hazardous Waste	0.0%		11
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	22	Vehicle and Equipment Fluids	0.0%	0.0%	Ō
				Used Oil	0.0%	0.0%	0
Metal	2.1%		1,577	Batteries	0.0%	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.1%	28	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.8%	0.6%	588	Lamps - Fluorescent and LED	0.0%	0.0%	11
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0				
Other Ferrous	0.0%	0.0%	1	Special Waste	0.5%		410
Aluminum Cans - CRV	0.1%	0.0%	53	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	1.1%	2.1%	860	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	0	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.1%	0.1%	47	Tires	0.0%	0.0%	0
				Remainder/Composite Special Waste	0.5%	1.0%	410
Electronics	0.1%		80				
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.2%	0.2%	151
Computer-related Electronics	0.1%	0.2%	80				
Other Small Consumer Electronics	0.0%	0.0%	0				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Disstis	E 40/		4.040				
Plastic	<b>5.4%</b> 0.1%	0 4 0/	<b>4,040</b> 100				
PETE Containers - CRV		0.1%					
PETE Containers - Non-CRV	0.4%	0.3%	302				
HDPE Containers - CRV	0.4%	0.6%	273				
HDPE Containers - Non-CRV	1.5%	0.9%	1,118				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	0.4%	0.3%	315 266				
Plastic Trash Bags	0.4% 0.0%	0.2%	266 23				
Plastic Grocery and Other Merchandise Bags		0.0%					
Non-Bag Commercial and Industrial Packaging Film	0.2%	0.2%	143				
Film Products	0.1%	0.1%	49				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	2				
Other Film - Other	0.4%	0.1%	328				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.2%	0.3%	113	Tatala	4000		74 07 4
Durable Plastic Items - Other	0.3%	0.5% 0.5%	252 755	Totals Sampled Streams	100% 29		74,874
Remainder/Composite Plastic Confidence intervals calculated at the 90% confidence level. Percent	1.0%			Sampled Streams	29		

#### Table 133. Detailed Composition – Curbside Organics: Medical & Health

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	10.4%		822	Other Organic	75.7%		5,989
Uncoated Corrugated Cardboard	0.2%	0.0%	16	Food	69.5%	14.2%	5,498
Paper Bags	0.0%	0.0%	0	Leaves and Grass		0.0%	0
Newspaper	0.0%	0.0%	0	Prunings and Trimmings		19.2%	491
White Ledger Paper	0.1%	0.0%	5	Branches and Stumps	0.0%		0
Other Office Paper	0.0%	0.0%	0	Manures	0.0%		0
Magazines and Catalogs	0.0%	0.0%	0	Textiles	0.0%	0.0%	0
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	3.4%	0.7%	269	Remainder/Composite Organic	0.0%	0.0%	0
Other Miscellaneous Paper - Other	2.4%	0.5%	191	1			
Remainder/Composite Paper - Rigid Food & Beverage Cartons	4.3%	0.9%	341	Inerts and Other	0.0%		0
Remainder/Composite Paper - Compostable	0.0%	0.0%	0	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.0%	0.0%	0	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	0.0%		0	Clean Dimensional Lumber	0.0%		0
Clear Glass Bottles and Containers - CRV	0.0%	0.0%	0	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Ō	Clean Pallets & Crates	0.0%		0
Green Glass Bottles and Containers - CRV	0.0%	0.0%	Ō	Other Wood Waste	0.0%		0
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Gypsum Board	0.0%		0
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	õ	Rock, Soil and Fines	0.0%	0.0%	Ő
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	õ	Remainder/Composite Inerts and Other	0.0%		Õ
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	õ		0.070	0.070	Ŭ
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	õ	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%	0.0%	ŏ	Paint	0.0%	0.0%	Õ
Remainder/Composite Glass	0.0%	0.0%	ŏ	Vehicle and Equipment Fluids	0.0%		0
Remainder/Composite Class	0.070	0.070	0	Used Oil	0.0%	0.0%	0
Metal	4.0%		317	Batteries	0.0%		0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	0	Mercury-Containing Items - Not Lamps	0.0%		0
Tin/Steel Cans - Other	3.7%	0.8%	291	Lamps - Fluorescent and LED	0.0%		0
Major Appliances	0.0%	0.0%	231	Remainder/Composite Household Hazardous			0
Used Oil Filters	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.070	0.070	0
Other Ferrous	0.0%	0.0%	0	Special Waste	0.0%		0
Aluminum Cans - CRV	0.0%	0.0%	0	Ash	0.0%	0.0%	0
Aluminum Cans - CRV Aluminum Cans - Non-CRV	0.0%	0.0%	0	Treated Medical Waste	0.0%		0
Other Non-Ferrous	0.0%	0.0%	25	Bulky Items	0.0%		0
Remainder/Composite Metal	0.3%	0.1%	23	Tires	0.0%		0
Remainder/Composite Metal	0.078	0.0 /0	0	Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		0	Remainder/Composite Special Waste	0.076	0.076	0
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	0	Wixed Residue	0.076	0.0 /0	U
Other Small Consumer Electronics	0.0%	0.0%	0				
Video Display Devices - CRT	0.0%	0.0%	0				
	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Plastic	9.9%		781				
PETE Containers - CRV	0.0%	0.0%	0				
PETE Containers - Non-CRV	0.1%	0.0%	10				
HDPE Containers - CRV	0.0%	0.0%	0				
HDPE Containers - Non-CRV	0.8%	0.2%	62				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	1.0%	0.2%	81				
Plastic Trash Bags	0.1%	0.0%	10				
Plastic Trash bags Plastic Grocery and Other Merchandise Bags	0.1%	0.0%	3				
Non-Bag Commercial and Industrial Packaging Film	0.0%	0.0%	0				
Film Products	0.0%	0.0%	25				
	0.3%	0.1%	25 0				
Other Film - Flexible Plastic Pouches Other Film - Other		0.0%					
	2.8%		225 0				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0% 0.0%	0.0% 0.0%	0	Totala	100%		7.909
Durable Plastic Items - Other	0.0% 4.6%	0.0%	365	Totals Sampled Streams	100%		7,909
Remainder/Composite Plastic Confidence intervals calculated at the 90% confidence level, Percent					2		

#### Table 134. Detailed Composition – Other Diversion: Medical & Health

	Estimated	Estimated		Estimated	Estimated
Material	Percent	Tons	Material	Percent	Tons
Paper	0.4%	43	Other Organic	59.2%	6,422
Uncoated Corrugated Cardboard	0.4%	38	Food	0.2%	20
Paper Bags	0.0%	1	Leaves and Grass	0.0%	0
Newspaper	0.0%	0	Prunings and Trimmings	0.1%	7
White Ledger Paper	0.0%	1	Branches and Stumps	0.0%	0
Other Office Paper	0.0%	0	Manures	0.0%	0
Magazines and Catalogs	0.0%	1	Textiles	59.0%	6,394
Phone Books and Directories	0.0%	Ó	Carpet	0.0%	0,001
Other Miscellaneous Paper - Compostable	0.0%	Ő	Remainder/Composite Organic	0.0%	õ
Other Miscellaneous Paper - Other	0.0%	2	Remainder/Composite Organic	0.070	0
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0	Inerts and Other	0.0%	0
Remainder/Composite Paper - Compostable	0.0%	0	Concrete	0.0%	0
Remainder/Composite Paper - Other	0.0%	0	Asphalt Paving	0.0%	0
Remainder/Composite Paper - Other	0.076	0	Asphalt Roofing	0.0%	0
Glass	0.0%	0		0.0%	0
Clear Glass Bottles and Containers - CRV	0.0%	0	Clean Dimensional Lumber	0.0%	0
		0	Clean Engineered Wood		0
Clear Glass Bottles and Containers - Non-CRV	0.0%	0	Clean Pallets & Crates	0.0%	
Green Glass Bottles and Containers - CRV	0.0%		Other Wood Waste	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.0%	0	Gypsum Board	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	0	Rock, Soil and Fines	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0			
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0	Household Hazardous Waste	0.0%	0
Flat Glass	0.0%	0	Paint	0.0%	0
Remainder/Composite Glass	0.0%	0	Vehicle and Equipment Fluids	0.0%	0
			Used Oil	0.0%	0
Metal	0.1%	8	Batteries	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	1	Mercury-Containing Items - Not Lamps	0.0%	0
Tin/Steel Cans - Other	0.0%	2	Lamps - Fluorescent and LED	0.0%	0
Major Appliances	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0
Used Oil Filters	0.0%	0			
Other Ferrous	0.0%	0	Special Waste	27.4%	2,971
Aluminum Cans - CRV	0.0%	5	Ash	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0	Treated Medical Waste	0.0%	0
Other Non-Ferrous	0.0%	0	Bulky Items	27.4%	2,971
Remainder/Composite Metal	0.0%	0	Tires	0.0%	0
			Remainder/Composite Special Waste	0.0%	0
Electronics	12.9%	1,400			
Brown Goods	0.0%	0	Mixed Residue	0.0%	0
Computer-related Electronics	12.9%	1,400			
Other Small Consumer Electronics	0.0%	0			
Video Display Devices - CRT	0.0%	Ő			
Video Display Devices - Other	0.0%	Ő			
Plastic	0.0%	2			
PETE Containers - CRV	0.0%	1			
PETE Containers - Non-CRV	0.0%	0			
HDPE Containers - CRV	0.0%	1			
HDPE Containers - Non-CRV	0.0%	0			
Miscellaneous Plastic Containers - CRV	0.0%	0			
Miscellaneous Plastic Containers - Non-CRV	0.0%	0			
Plastic Trash Bags	0.0%	0			
Plastic Grocery and Other Merchandise Bags	0.0%	0			
Non-Bag Commercial and Industrial Packaging Film	0.0%	0			
Film Products	0.0%	õ			
Other Film - Flexible Plastic Pouches	0.0%	Ő			
Other Film - Other	0.0%	õ			
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	Ő			
			Totals	100%	10,846
Durable Plastic Items - Other	0.0%	0			

#### Table 135. Detailed Composition – Disposed: Public Administration

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	34.7%		90,050	Other Organic	28.0%		72,599
Uncoated Corrugated Cardboard	2.8%	1.2%	7,172	Food	17.2%	3.1%	44,508
Paper Bags	0.3%	0.1%	871	Leaves and Grass	2.4%	1.5%	6,191
Newspaper	2.3%	0.5%	6,051	Prunings and Trimmings	0.1%	0.1%	263
White Ledger Paper	3.4%	1.1%	8,795	Branches and Stumps	0.0%	0.1%	125
Other Office Paper	3.4%	1.1%	8,938	Manures	0.0%	0.0%	0
Magazines and Catalogs	1.2%	0.5%	3,037	Textiles	2.5%	0.8%	6,494
Phone Books and Directories	0.1%	0.1%	203	Carpet	0.7%	0.7%	1,888
Other Miscellaneous Paper - Compostable	0.3%	0.2%	771	Remainder/Composite Organic	5.1%	1.4%	13,130
Other Miscellaneous Paper - Other	3.4% 0.7%	0.6%	8,842 1,816	Inorto and Other	44.00/		26.224
Remainder/Composite Paper - Rigid Food & Beverage Cartons	14.4%	0.6% 2.5%	37,208	Inerts and Other Concrete	<b>14.0%</b> 1.6%	1.7%	<b>36,234</b> 4,193
Remainder/Composite Paper - Compostable	2.4%	2.5% 0.5%			0.4%	0.6%	4,193
Remainder/Composite Paper - Other	2.4%	0.5%	6,345	Asphalt Paving	0.4%	0.0%	949
Glass	0.9%		2,341	Asphalt Roofing Clean Dimensional Lumber	0.0%	0.0%	1,822
Clear Glass Bottles and Containers - CRV	0.3%	0.1%	617	Clean Engineered Wood	0.7%	0.6%	1,561
Clear Glass Bottles and Containers - Non-CRV	0.2%	0.0%	341	Clean Pallets & Crates	5.2%	2.8%	13,416
Green Glass Bottles and Containers - CRV	0.0%	0.0%	43	Other Wood Waste	2.2%	1.5%	5.775
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	83	Gypsum Board	0.2%	0.2%	476
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	110	Rock, Soil and Fines	0.2%	0.2%	1,323
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	30	Remainder/Composite Inerts and Other	2.6%	2.0%	6,719
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	7	Remainder/Composite ments and Other	2.070	2.070	0,715
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	56	Household Hazardous Waste	0.1%		359
Flat Glass	0.0%	0.0%	12	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.4%	0.3%	1,042	Vehicle and Equipment Fluids	0.0%	0.0%	Ő
	011/0	0.070	.,	Used Oil	0.0%	0.0%	õ
Metal	7.2%		18,682	Batteries	0.0%	0.0%	48
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	100	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.5%	0.2%	1,346	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.1%	0.1%	311
Used Oil Filters	0.0%	0.0%	33				
Other Ferrous	1.5%	1.7%	3,893	Special Waste	0.0%		83
Aluminum Cans - CRV	0.2%	0.0%	443	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	54	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	1.0%	0.6%	2,565	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	4.0%	2.6%	10,249	Tires	0.0%	0.0%	0
				Remainder/Composite Special Waste	0.0%	0.0%	83
Electronics	0.1%		351				
Brown Goods	0.0%	0.0%	0	Mixed Residue	1.6%	1.9%	4,046
Computer-related Electronics	0.1%	0.2%	339				
Other Small Consumer Electronics	0.0%	0.0%	13				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Plastic	13.3%		34,392				
PETE Containers - CRV	0.4%	0.1%	955				
PETE Containers - Non-CRV	0.2%	0.0%	446				
HDPE Containers - CRV	0.1%	0.0%	155				
HDPE Containers - Non-CRV	0.3%	0.1%	895				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	108				
Miscellaneous Plastic Containers - Non-CRV	0.5%	0.2%	1,276				
Plastic Trash Bags	2.8%	0.4%	7,204				
Plastic Grocery and Other Merchandise Bags	0.2%	0.1%	603				
Non-Bag Commercial and Industrial Packaging Film	0.2%	0.2%	607				
Film Products	0.0%	0.0%	2				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	92				
Other Film - Other	1.5%	0.3%	3,924				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.5%	0.4%	1,365				
Durable Plastic Items - Other	1.9%	1.0%	4,928	Totals	100%		259,137
Remainder/Composite Plastic	4.6%	1.3%	11,832	Sampled Streams	51		

#### Table 136. Detailed Composition – Curbside Recycle: Public Administration

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	88.8%		30,409	Other Organic	0.1%		28
Uncoated Corrugated Cardboard	20.1%	9.9%	6,894	Food	0.1%	0.1%	27
Paper Bags	0.3%	0.3%	113	Leaves and Grass	0.0%	0.0%	0
Newspaper	2.2%	1.5%	757	Prunings and Trimmings	0.0%	0.0%	Ō
White Ledger Paper	43.4%		14,846	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	11.0%	7.5%	3,751	Manures	0.0%	0.0%	0
Magazines and Catalogs	6.2%	2.7%	2,133	Textiles	0.0%	0.0%	0
Phone Books and Directories	0.4%	0.7%	146	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	0.2%	0.3%	85	Remainder/Composite Organic	0.0%	0.0%	0
Other Miscellaneous Paper - Other	2.1%	1.2%	728				
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.1%	0.1%	39	Inerts and Other	0.0%		0
Remainder/Composite Paper - Compostable	1.8%	1.9%	599	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.9%	0.9%	320	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	0.8%		272	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	0.2%	0.2%	68	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.6%	0.9%	205	Clean Pallets & Crates	0.0%	0.0%	0
Green Glass Bottles and Containers - CRV	0.0%	0.0%	0	Other Wood Waste	0.0%	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	0	Rock, Soil and Fines	0.0%	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0				
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		8
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	0	Vehicle and Equipment Fluids	0.0%	0.0%	0
				Used Oil	0.0%	0.0%	0
Metal	1.4%		466	Batteries	0.0%	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	0	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.1%	0.1%	41	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	8
Used Oil Filters	0.0%	0.0%	0				
Other Ferrous	0.2%	0.2%	78	Special Waste	1.0%		347
Aluminum Cans - CRV	0.2%	0.1%	53	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	7	Treated Medical Waste	1.0%	1.6%	347
Other Non-Ferrous	0.0%	0.0%	2	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.8%	1.3%	285	Tires	0.0%	0.0%	0
				Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.3%		111				
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	9
Computer-related Electronics	0.3%	0.5%	111				
Other Small Consumer Electronics	0.0%	0.0%	0				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Plastic	7.5%		2,577				
	0.7%	0.7%	2,577				
PETE Containers - CRV PETE Containers - Non-CRV	0.7%	0.7%	118				
	0.3%	0.3%	0				
HDPE Containers - CRV			-				
HDPE Containers - Non-CRV	4.9% 0.0%	6.8% 0.0%	1,664 0				
Miscellaneous Plastic Containers - CRV			32				
Miscellaneous Plastic Containers - Non-CRV	0.1% 0.4%	0.1%	32 140				
Plastic Trash Bags	0.4%	0.3% 0.0%	140				
Plastic Grocery and Other Merchandise Bags		0.0%	12				
Non-Bag Commercial and Industrial Packaging Film	0.0%		11 26				
Film Products	0.1%	0.1%	26				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	-				
Other Film - Other	0.2% 0.0%	0.2% 0.0%	63 11				
Durable Plastic Items - #2 and #5 Bulky Rigids				Totala	4000/		24 225
Durable Plastic Items - Other Remainder/Composite Plastic	0.0% 0.7%	0.1% 0.5%	12 250	Totals Sampled Streams	100% 28		34,225
Confidence intervals calculated at the 90% confidence level. Percent				1	20		

#### Table 137. Detailed Composition – Curbside Organics: Public Administration

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	28.4%		1,053	Other Organic	71.0%		2,634
Uncoated Corrugated Cardboard	5.9%	6.0%	220	Food		38.5%	886
Paper Bags	0.1%	0.3%	6	Leaves and Grass	47.0%	47.9%	1,743
Newspaper	0.0%	0.0%	0	Prunings and Trimmings	0.1%	0.3%	5
White Ledger Paper	0.0%	0.0%	0	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	0.0%	0.0%	0	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.0%	0.0%	0	Textiles	0.0%	0.0%	0
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	19.8%	35.5%	733	Remainder/Composite Organic	0.0%	0.0%	0
Other Miscellaneous Paper - Other	0.6%	1.3%	23				
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0.0%	0	Inerts and Other	0.0%		0
Remainder/Composite Paper - Compostable	1.7%	1.9%	64	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.2%	0.2%	7	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	0.0%		0	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	0.0%	0.0%	0	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Clean Pallets & Crates	0.0%	0.0%	0
Green Glass Bottles and Containers - CRV	0.0%	0.0%	0	Other Wood Waste	0.0%		0
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Ō	Gypsum Board	0.0%		Õ
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	Ō	Rock, Soil and Fines	0.0%		Õ
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Ō	Remainder/Composite Inerts and Other	0.0%		Õ
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	Ō	· · · · · · · · · · · · · · · · · · ·			-
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Ō	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%	0.0%	Ō	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	ŏ	Vehicle and Equipment Fluids	0.0%		Ő
	0.070	0.070	Ŭ	Used Oil	0.0%		Ő
Metal	0.0%		0	Batteries	0.0%		Ő
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	Õ	Mercury-Containing Items - Not Lamps	0.0%		Ő
Tin/Steel Cans - Other	0.0%	0.0%	Ő	Lamps - Fluorescent and LED	0.0%		Ő
Major Appliances	0.0%	0.0%	õ	Remainder/Composite Household Hazardous			Ő
Used Oil Filters	0.0%	0.0%	Ő	Remainder/Composite Household Hazardous	0.070	0.070	0
Other Ferrous	0.0%	0.0%	ŏ	Special Waste	0.0%		0
Aluminum Cans - CRV	0.0%	0.0%	Ő	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	ŏ	Treated Medical Waste	0.0%		Ő
Other Non-Ferrous	0.0%	0.0%	Ő	Bulky Items	0.0%		Ő
Remainder/Composite Metal	0.0%	0.0%	Ő	Tires	0.0%		0 0
	0.070	0.070	0	Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		0	Remainder/Composite Opecial Waste	0.070	0.070	0
Brown Goods	0.0%	0.0%	Ő	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	ŏ	Mixed Residue	0.070	0.070	Ŭ
Other Small Consumer Electronics	0.0%	0.0%	Ő				
Video Display Devices - CRT	0.0%	0.0%	ŏ				
Video Display Devices - Other	0.0%	0.0%	Ő				
Plastic	0.6%		23				
PETE Containers - CRV	0.0%	0.0%	0				
PETE Containers - Non-CRV	0.0%	0.0%	0				
HDPE Containers - CRV	0.0%	0.0%	0				
HDPE Containers - Non-CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	0.0%	0.0%	0				
Plastic Trash Bags	0.2%	0.3%	7				
Plastic Grocery and Other Merchandise Bags	0.0%	0.0%	0				
Non-Bag Commercial and Industrial Packaging Film	0.0%	0.0%	0				
Film Products	0.0%	0.0%	0				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	0				
Other Film - Other	0.0%	0.0%	0				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0.0%	Ō				
Durable Plastic Items - Other	0.0%	0.0%	0	Totals	100%		3,710
Remainder/Composite Plastic	0.4%	0.6%	16	Sampled Streams	5		-,

#### Table 138. Detailed Composition – Other Diversion: Public Administration

	Estimated	Estimated		Estimated	Estimated
Material	Percent	Tons	Material	Percent	Tons
Paper	27.2%	3,381	Other Organic	1.4%	174
Uncoated Corrugated Cardboard	0.0%	0	Food	0.3%	40
Paper Bags	0.0%	0	Leaves and Grass	0.0%	0
Newspaper	1.8%	227	Prunings and Trimmings	1.1%	134
White Ledger Paper	0.7%	81	Branches and Stumps	0.0%	0
Other Office Paper	23.4%	2,903	Manures	0.0%	0
Magazines and Catalogs	0.7%	84	Textiles	0.0%	0
Phone Books and Directories	0.0%	0	Carpet	0.0%	0
Other Miscellaneous Paper - Compostable	0.6%	69	Remainder/Composite Organic	0.0%	0
Other Miscellaneous Paper - Other	0.1%	18			
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0	Inerts and Other	11.2%	1,385
Remainder/Composite Paper - Compostable	0.0%	0	Concrete	3.2%	399
Remainder/Composite Paper - Other	0.0%	0	Asphalt Paving	0.0%	0
			Asphalt Roofing	0.0%	0
Glass	0.1%	15	Clean Dimensional Lumber	0.0%	0
Clear Glass Bottles and Containers - CRV	0.1%	15	Clean Engineered Wood	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.0%	0	Clean Pallets & Crates	0.0%	0
Green Glass Bottles and Containers - CRV	0.0%	0	Other Wood Waste	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.0%	0	Gypsum Board	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	0	Rock, Soil and Fines	7.9%	985
Brown Glass Bottles and Containers - Non-CRV	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0	· · · · · · · · · · · · · · · · · · ·		
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	Õ	Household Hazardous Waste	1.2%	155
Flat Glass	0.0%	0	Paint	0.0%	0
Remainder/Composite Glass	0.0%	õ	Vehicle and Equipment Fluids	0.0%	õ
	01070	0	Used Oil	0.0%	õ
Metal	55.2%	6,861	Batteries	1.2%	155
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0,001	Mercury-Containing Items - Not Lamps	0.0%	0
Tin/Steel Cans - Other	0.0%	1	Lamps - Fluorescent and LED	0.0%	Õ
Major Appliances	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0
Used Oil Filters	0.0%	õ		0.070	Ũ
Other Ferrous	52.2%	6,478	Special Waste	0.0%	0
Aluminum Cans - CRV	0.2%	24	Ash	0.0%	õ
Aluminum Cans - Non-CRV	0.0%	0	Treated Medical Waste	0.0%	Õ
Other Non-Ferrous	2.9%	358	Bulky Items	0.0%	0
Remainder/Composite Metal	0.0%	0	Tires	0.0%	0
	01070	0	Remainder/Composite Special Waste	0.0%	Õ
Electronics	2.7%	339	nonialitadi, composito oposial tracto	0.070	Ũ
Brown Goods	0.0%	0	Mixed Residue	0.0%	0
Computer-related Electronics	2.7%	339			•
Other Small Consumer Electronics	0.0%	0			
Video Display Devices - CRT	0.0%	Ő			
Video Display Devices - Other	0.0%	õ			
Plastic	0.9%	109			
PETE Containers - CRV	0.5%	68			
PETE Containers - Non-CRV	0.0%	5			
HDPE Containers - CRV	0.0%	0			
HDPE Containers - Non-CRV	0.0%	0			
Miscellaneous Plastic Containers - CRV	0.0%	0			
Miscellaneous Plastic Containers - Non-CRV	0.0%	1			
Plastic Trash Bags	0.0%	0			
Plastic Grocery and Other Merchandise Bags	0.0%	3			
Non-Bag Commercial and Industrial Packaging Film	0.0%	0			
Film Products	0.0%	5			
Other Film - Flexible Plastic Pouches	0.0%	Ō			
Other Film - Other	0.1%	9			
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	Ō			
Durable Plastic Items - Other	0.0%	Ō	Totals	100%	12,419
Remainder/Composite Plastic	0.1%	17	Sampled Streams	33	,

#### Table 139. Detailed Composition – Disposed: Restaurants

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	25.9%		746,481	Other Organic	54.9%		1,580,144
Uncoated Corrugated Cardboard	2.0%	0.5%	56,636	Food	50.8%	4.0%	1,461,319
Paper Bags	0.3%	0.1%	8,983	Leaves and Grass	1.8%	1.9%	53,140
Newspaper	2.6%	1.4%	76,093	Prunings and Trimmings	0.4%	0.4%	10,440
White Ledger Paper	0.7%	0.4%	19,631	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	0.3%	0.2%	9,087	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.2%	0.2%	6,468	Textiles	0.7%	0.3%	20,721
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	0.6%	0.4%	16,158	Remainder/Composite Organic	1.2%	0.5%	34,524
Other Miscellaneous Paper - Other	2.1%	0.4%	59,722				
Remainder/Composite Paper - Rigid Food & Beverage Cartons		0.8%	31,324	Inerts and Other	1.3%		36,294
Remainder/Composite Paper - Compostable	12.2%	1.8%	350,240	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	3.9%	1.5%	112,138	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	2.7%		79,059	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	0.5%	0.3%	14,271	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	1.1%	0.9%	31,450	Clean Pallets & Crates	0.8%	0.7%	21,613
Green Glass Bottles and Containers - CRV	0.1%	0.0%	1,641	Other Wood Waste	0.4%	0.7%	12,652
Green Glass Bottles and Containers - Non-CRV	0.4%	0.3%	12,671	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	0.4%	0.2%	11,052	Rock, Soil and Fines	0.0%	0.1%	1,118
Brown Glass Bottles and Containers - Non-CRV	0.1%	0.1%	2,629	Remainder/Composite Inerts and Other	0.0%	0.1%	912
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0				
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%	0.00/	441
Flat Glass	0.0%	0.0%	59	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.2%	0.1%	5,286	Vehicle and Equipment Fluids	0.0%	0.0%	0
Martal	0.40/			Used Oil	0.0%	0.0%	0
Metal	2.1%	0.40/	61,208	Batteries	0.0%	0.0%	59
Tin/Steel Cans - CRV Bimetal Containers	0.1%	0.1%	2,661	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	1.0%	0.4%	28,713	Lamps - Fluorescent and LED	0.0%	0.0%	382
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0	0	0.00/		40.405
Other Ferrous	0.4%	0.3%	12,115	Special Waste	0.6%	4 00/	18,495
Aluminum Cans - CRV	0.1%	0.0%	3,355	Ash	0.6%	1.0%	18,495
Aluminum Cans - Non-CRV	0.0%	0.0%	802	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.2%	0.1%	5,191	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.3%	0.2%	8,371	Tires	0.0%	0.0%	0
Electronics	0.0%		0	Remainder/Composite Special Waste	0.0%	0.0%	0
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.1%	0.2%	4,147
Computer-related Electronics	0.0%	0.0%	0	Wixed Residue	0.170	0.2 /0	4,147
Other Small Consumer Electronics	0.0%	0.0%	0				
Video Display Devices - CRT	0.0%	0.0%	0 0				
Video Display Devices - Other	0.0%	0.0%	0				
video Display Devices - Other	0.070	0.070	0				
Plastic	12.2%		350.384				
PETE Containers - CRV	0.2%	0.1%	6,978				
PETE Containers - Non-CRV	0.4%	0.2%	10,196				
HDPE Containers - CRV	0.1%	0.0%	1,836				
HDPE Containers - Non-CRV	0.5%	0.2%	15,803				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	327				
Miscellaneous Plastic Containers - Non-CRV	0.3%	0.1%	10.036				
Plastic Trash Bags	3.3%	0.4%	94,146				
Plastic Grocery and Other Merchandise Bags	0.1%	0.0%	3.587				
Non-Bag Commercial and Industrial Packaging Film	0.0%	0.0%	936				
Film Products	0.0%	0.0%	000				
Other Film - Flexible Plastic Pouches	0.1%	0.0%	2,500				
Other Film - Other	3.2%	0.6%	91,503				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0.0%	929				
Durable Plastic Items - Other	0.2%	0.2%	6,590	Totals	100%		2,876,653
				Sampled Streams	51		_,

#### Table 140. Detailed Composition – Curbside Recycle: Restaurants

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	68.1%		215,250	Other Organic	7.2%		22,903
Uncoated Corrugated Cardboard	61.3%	11.0%	193,718	Food	5.6%	4.1%	17,706
Paper Bags	0.3%	0.4%	1,006	Leaves and Grass	0.0%	0.0%	0
Newspaper	0.3%	0.4%	884	Prunings and Trimmings	1.1%	1.8%	3,512
White Ledger Paper	0.4%	0.4%	1,145	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	0.6%	0.6%	1,872	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.4%	0.3%	1,183	Textiles	0.0%	0.0%	0
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	1.5%	0.8%	4,834	Remainder/Composite Organic	0.5%	1.0%	1,685
Other Miscellaneous Paper - Other	1.8%	2.2%	5,808	1			,
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.1%	0.2%	419	Inerts and Other	0.1%		319
Remainder/Composite Paper - Compostable	0.9%	0.6%	2,870	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.5%	0.4%	1,510	Asphalt Paving	0.0%	0.0%	0
			,	Asphalt Roofing	0.0%	0.0%	Ō
Glass	12.0%		37,982	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	3.3%	2.6%	10,413	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	1.9%	1.3%	5,915	Clean Pallets & Crates	0.0%	0.0%	0
Green Glass Bottles and Containers - CRV	1.4%	1.1%	4,464	Other Wood Waste	0.0%	0.0%	0
Green Glass Bottles and Containers - Non-CRV	4.0%	5.1%	12,656	Gypsum Board	0.0%	0.0%	õ
Brown Glass Bottles and Containers - CRV	0.7%	0.6%	2,298	Rock, Soil and Fines	0.0%	0.0%	Õ
Brown Glass Bottles and Containers - Non-CRV	0.6%	0.8%	1,783	Remainder/Composite Inerts and Other	0.1%	0.2%	319
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0		01170	0.270	0.0
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Ő	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%	0.0%	ŏ	Paint	0.0%	0.0%	Õ
Remainder/Composite Glass	0.0%	0.2%	452	Vehicle and Equipment Fluids	0.0%	0.0%	ŏ
Nemainder/Composite Class	0.170	0.270	402	Used Oil	0.0%	0.0%	ŏ
Metal	2.8%		8.738	Batteries	0.0%	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.2%	0.3%	702	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	2.2%	1.6%	6,913	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0,915	Remainder/Composite Household Hazardous		0.0%	0
Used Oil Filters	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.078	0.076	0
Other Ferrous	0.0%	0.0%	0	Special Waste	0.0%		0
Aluminum Cans - CRV	0.0%	0.0%	697	Ash	0.0%	0.0%	0
Aluminum Cans - CRV Aluminum Cans - Non-CRV	0.2 %	0.1%	51	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	260	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.1%	0.1%	115	Tires	0.0%	0.0%	0
Remainder/Composite Metai	0.0%	0.170	115	Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		134	Remainder/Composite Special Waste	0.0%	0.0%	0
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	0	wixed Residue	0.0 /8	0.0 /0	U
Other Small Consumer Electronics	0.0%	0.0%	134				
	0.0%	0.1%	0				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Plastic	9.8%		30.907				
PETE Containers - CRV	0.3%	0.2%	1,002				
PETE Containers - Non-CRV	2.3%	3.2%	7,305				
HDPE Containers - CRV	0.1%	0.1%	194				
HDPE Containers - Non-CRV	2.5%	2.0%	7,771				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	0.0%	0.0%	2,497				
	0.8%	0.8%	1,040				
Plastic Trash Bags Plastic Grocery and Other Merchandise Bags	0.3%	0.2%	1,040				
	0.0%	0.0%	349				
Non-Bag Commercial and Industrial Packaging Film							
Film Products	0.0%	0.0%	92 0				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	-				
Other Film - Other	1.4%	1.4%	4,414				
Durable Plastic Items - #2 and #5 Bulky Rigids	1.4%	1.5%	4,272	Tatala	4000		040.007
Durable Plastic Items - Other	0.0%	0.0%	119	Totals	100% 21		316,231
Remainder/Composite Plastic Confidence intervals calculated at the 90% confidence level. Percent	0.5%	0.4%	1,727	Sampled Streams	21		

#### Table 141. Detailed Composition – Curbside Organics: Restaurants

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	2.9%		5,852	Other Organic	88.7%		179.540
Uncoated Corrugated Cardboard	1.0%	1.0%	2.074	Food	73.2%	19.0%	148,160
Paper Bags	0.0%	0.0%	0	Leaves and Grass	15.3%	21.2%	30,876
Newspaper	0.4%	0.7%	750	Prunings and Trimmings	0.0%		0
White Ledger Paper	0.0%	0.0%	0	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	0.0%	0.0%	0	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.0%	0.0%	0	Textiles	0.2%	0.4%	505
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	0.9%	1.5%	1,897	Remainder/Composite Organic	0.0%	0.0%	0
Other Miscellaneous Paper - Other	0.0%	0.0%	0				
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.1%	0.2%	243	Inerts and Other	0.0%		0
Remainder/Composite Paper - Compostable	0.3%	0.4%	568	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.2%	0.2%	320	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	6.8%		13.866	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	0.2%	0.3%	392	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	2.3%	3.6%	4.628	Clean Pallets & Crates	0.0%		0
Green Glass Bottles and Containers - CRV	0.0%	0.0%	0	Other Wood Waste	0.0%		0
Green Glass Bottles and Containers - Non-CRV	3.6%	6.7%	7,325	Gypsum Board	0.0%	0.0%	õ
Brown Glass Bottles and Containers - CRV	0.2%	0.2%	397	Rock, Soil and Fines	0.0%	0.0%	õ
Brown Glass Bottles and Containers - Non-CRV	0.6%	1.0%	1,125	Remainder/Composite Inerts and Other	0.0%	0.0%	õ
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0		0.070	0.070	Ŭ
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	õ	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%	0.0%	ŏ	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	ŏ	Vehicle and Equipment Fluids	0.0%	0.0%	0 0
Nemainder/Oomposite Class	0.070	0.070	0	Used Oil	0.0%		0 0
Metal	0.4%		717	Batteries	0.0%		0 0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	22	Mercury-Containing Items - Not Lamps	0.0%		0 0
Tin/Steel Cans - Other	0.2%	0.2%	325	Lamps - Fluorescent and LED	0.0%		0 0
Major Appliances	0.0%	0.0%	020	Remainder/Composite Household Hazardous		0.0%	0
Used Oil Filters	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.070	0.070	0
Other Ferrous	0.0%	0.0%	55	Special Waste	0.0%		0
Aluminum Cans - CRV	0.0%	0.0%	61	Ash	0.0%	0.0%	0
Aluminum Cans - CRV Aluminum Cans - Non-CRV	0.0%	0.0%	0	Treated Medical Waste	0.0%		0
Other Non-Ferrous	0.0%	0.0%	254	Bulky Items	0.0%		0
	0.1%	0.2 %	204	Tires	0.0%	0.0%	0
Remainder/Composite Metal	0.078	0.078	0	Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		0	Remainder/Composite Special Waste	0.070	0.070	0
Brown Goods	0.0%	0.0%	Ō	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	Ő		0.070	••••	•
Other Small Consumer Electronics	0.0%	0.0%	õ				
Video Display Devices - CRT	0.0%	0.0%	Ő				
Video Display Devices - Other	0.0%	0.0%	ŏ				
Plastic	1.2%		2,452				
PETE Containers - CRV	0.2%	0.2%	325				
PETE Containers - Non-CRV	0.1%	0.1%	110				
HDPE Containers - CRV	0.0%	0.0%	0				
HDPE Containers - Non-CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	0.1%	0.1%	116				
Plastic Trash Bags	0.1%	0.1%	121				
Plastic Grocery and Other Merchandise Bags	0.0%	0.0%	0				
Non-Bag Commercial and Industrial Packaging Film	0.1%	0.1%	138				
Film Products	0.0%	0.0%	0				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	Ō				
Other Film - Other	0.8%	0.3%	1,636				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0.0%	0				
Durable Plastic Items - Other	0.0%	0.0%	0	Totals	100%		202,428
	0.0%	0.0%	ő	Sampled Streams	6		

#### Table 142. Detailed Composition – Other Diversion: Restaurants

	Estimated	Estimated		Estimated	Estimated
Material	Percent	Tons	Material	Percent	Tons
Paper	20.4%	20,228	Other Organic	20.7%	20,545
Uncoated Corrugated Cardboard	19.5%	19,353	Food	20.7%	20,545
Paper Bags	0.0%	0	Leaves and Grass	0.0%	0
Newspaper	0.4%	410	Prunings and Trimmings	0.0%	Ō
White Ledger Paper	0.1%	101	Branches and Stumps	0.0%	Ō
Other Office Paper	0.0%	0	Manures	0.0%	0
Magazines and Catalogs	0.0%	Ő	Textiles	0.0%	Ő
Phone Books and Directories	0.0%	Ő	Carpet	0.0%	Ő
Other Miscellaneous Paper - Compostable	0.0%	Ő	Remainder/Composite Organic	0.0%	ŏ
Other Miscellaneous Paper - Other	0.4%	365	Remainder/Composite Organic	0.070	0
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0	Inerts and Other	0.0%	0
Remainder/Composite Paper - Compostable	0.0%	0	Concrete	0.0%	0
	0.0%	0		0.0%	0
Remainder/Composite Paper - Other	0.0%	0	Asphalt Paving	0.0%	0
Glass	EA C0/	E4 47E	Asphalt Roofing		0
	54.6%	54,175	Clean Dimensional Lumber	0.0%	0
Clear Glass Bottles and Containers - CRV	0.1%	104	Clean Engineered Wood	0.0%	
Clear Glass Bottles and Containers - Non-CRV	5.8%	5,771	Clean Pallets & Crates	0.0%	0
Green Glass Bottles and Containers - CRV	13.4%	13,239	Other Wood Waste	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.0%	0	Gypsum Board	0.0%	0
Brown Glass Bottles and Containers - CRV	31.8%	31,491	Rock, Soil and Fines	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	3.6%	3,570	Remainder/Composite Inerts and Other	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0			
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0	Household Hazardous Waste	0.0%	0
Flat Glass	0.0%	0	Paint	0.0%	0
Remainder/Composite Glass	0.0%	0	Vehicle and Equipment Fluids	0.0%	0
			Used Oil	0.0%	0
Metal	4.0%	3,986	Batteries	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0	Mercury-Containing Items - Not Lamps	0.0%	0
Tin/Steel Cans - Other	1.4%	1,418	Lamps - Fluorescent and LED	0.0%	0
Major Appliances	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0
Used Oil Filters	0.0%	0	·		
Other Ferrous	0.1%	77	Special Waste	0.0%	0
Aluminum Cans - CRV	2.4%	2,370	Ash	0.0%	0
Aluminum Cans - Non-CRV	0.1%	121	Treated Medical Waste	0.0%	Ō
Other Non-Ferrous	0.0%	0	Bulky Items	0.0%	0
Remainder/Composite Metal	0.0%	Ō	Tires	0.0%	0
	01070	Ũ	Remainder/Composite Special Waste	0.0%	õ
Electronics	0.1%	66		0.070	Ŭ
Brown Goods	0.0%	0	Mixed Residue	0.0%	0
Computer-related Electronics	0.1%	66		0.070	v
Other Small Consumer Electronics	0.0%	0			
Video Display Devices - CRT	0.0%	0			
	0.0%	0			
Video Display Devices - Other	0.0%	0			
Plastic	0.2%	165			
PETE Containers - CRV	0.1%	76			
PETE Containers - Non-CRV	0.0%	10			
HDPE Containers - CRV	0.0%	0			
HDPE Containers - Non-CRV	0.0%	27			
Miscellaneous Plastic Containers - CRV	0.0%	0			
	0.0%	0			
Miscellaneous Plastic Containers - Non-CRV	0.0%	0			
Plastic Trash Bags		0			
Plastic Grocery and Other Merchandise Bags	0.0%	-			
Non-Bag Commercial and Industrial Packaging Film	0.0%	0			
Film Products	0.0%	0			
Other Film - Flexible Plastic Pouches	0.0%	0			
Other Film - Other	0.0%	0			
Durable Plastic Items - #2 and #5 Bulky Rigids	0.1%	52			
Durable Plastic Items - Other	0.0%	0	Totals	100%	99,167
Remainder/Composite Plastic	0.0%	0	Sampled Streams	18	

### Table 143. Detailed Composition – Disposed: Retail Trade – Food & Beverage Stores

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	28.2%		117,858	Other Organic	46.7%		195,092
Uncoated Corrugated Cardboard	2.5%	0.6%	10,447	Food	41.5%	4.6%	173,504
Paper Bags	0.4%	0.1%	1,512	Leaves and Grass	1.0%	0.8%	4,287
Newspaper	2.3%	0.5%	9,744	Prunings and Trimmings	0.1%	0.1%	356
White Ledger Paper	1.0%	0.4%	4,028	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	1.6%	0.6%	6,840	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.2%	0.2%	911	Textiles	1.2%	0.4%	5,197
Phone Books and Directories	0.0%	0.0%	73	Carpet	0.5%	0.9%	2,272
Other Miscellaneous Paper - Compostable	0.7%	0.5%	2,961	Remainder/Composite Organic	2.3%	0.7%	9,478
Other Miscellaneous Paper - Other	3.2%	0.6%	13,492	lucate and Other	4 40/		40.007
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.3% 9.0%	0.1% 1.3%	1,304 37,501	Inerts and Other	<b>4.4%</b> 0.8%	1.1%	18,367
Remainder/Composite Paper - Compostable	9.0% 7.0%	2.4%	29,044	Concrete	0.8%	0.0%	3,390 0
Remainder/Composite Paper - Other	7.0%	2.4%	29,044	Asphalt Paving Asphalt Roofing	0.0%	0.0%	0
Glass	2.3%		9.451	Clean Dimensional Lumber	0.0%	0.0%	7
Clear Glass Bottles and Containers - CRV	0.3%	0.1%	1,396	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.3%	0.1%	1,413	Clean Pallets & Crates	2.4%	1.6%	9,974
Green Glass Bottles and Containers - CRV	0.0%	0.1%	422	Other Wood Waste	0.2%	0.2%	627
Green Glass Bottles and Containers - Non-CRV	0.2%	0.2%	924	Gypsum Board	0.0%	0.0%	8
Brown Glass Bottles and Containers - CRV	0.2%	0.1%	669	Rock, Soil and Fines	0.1%	0.2%	388
Brown Glass Bottles and Containers - Non-CRV	0.5%	0.8%	2,107	Remainder/Composite Inerts and Other	1.0%	1.1%	3,973
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	_,0				-,
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Ō	Household Hazardous Waste	0.1%		331
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.6%	0.6%	2,520	Vehicle and Equipment Fluids	0.0%	0.0%	0
				Used Oil	0.1%	0.1%	235
Metal	2.0%		8,394	Batteries	0.0%	0.0%	12
Tin/Steel Cans - CRV Bimetal Containers	0.1%	0.1%	402	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.3%	0.2%	1,419	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	84
Used Oil Filters	0.0%	0.0%	0				
Other Ferrous	0.6%	0.6%	2,634	Special Waste	0.1%		285
Aluminum Cans - CRV	0.2%	0.1%	1,037	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	37	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.2%	0.1%	1,011	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.4%	0.5%	1,854	Tires	0.0% 0.1%	0.0% 0.1%	0 285
Electronics	0.1%		320	Remainder/Composite Special Waste	0.1%	0.1%	205
Brown Goods	0.0%	0.0%	<b>320</b>	Mixed Residue	0.3%	0.4%	1,047
Computer-related Electronics	0.0%	0.0%	320	Wilked Residue	0.578	0.470	1,047
Other Small Consumer Electronics	0.0%	0.0%	020				
Video Display Devices - CRT	0.0%	0.0%	õ				
Video Display Devices - Other	0.0%	0.0%	Õ				
Plastic	16.0%		66,645				
PETE Containers - CRV	0.4%	0.1%	1,786				
PETE Containers - Non-CRV	0.3%	0.1%	1,116				
HDPE Containers - CRV	0.0%	0.0%	173				
HDPE Containers - Non-CRV	0.5%	0.2%	1,954				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	7				
Miscellaneous Plastic Containers - Non-CRV	0.5%	0.2%	1,970				
Plastic Trash Bags	3.0%	0.5%	12,394				
Plastic Grocery and Other Merchandise Bags	0.4%	0.3%	1,482				
Non-Bag Commercial and Industrial Packaging Film	0.6%	0.3%	2,494				
Film Products	0.4%	0.7%	1,862				
Other Film - Flexible Plastic Pouches	0.1%	0.0%	265				
Other Film - Other Durable Plastic Items - #2 and #5 Bulky Rigids	4.7% 0.0%	1.0% 0.1%	19,795 207				
Durable Plastic Items - #2 and #5 Bulky Rigids Durable Plastic Items - Other	0.0%	0.1%	1,933	Totals	100%		417,791
Remainder/Composite Plastic	4.6%	0.2 %	19,207	Sampled Streams	53		417,731
Confidence intervals calculated at the 90% confidence level. Percent			,	•			

## Table 144. Detailed Composition – Curbside Recycle: Retail Trade – Food & Beverage Stores

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	52.6%		26,886	Other Organic	6.7%		3,435
Uncoated Corrugated Cardboard	38.0%	9.5%	19,431	Food	6.3%	4.4%	3,235
Paper Bags	0.9%	0.6%	451	Leaves and Grass	0.0%	0.0%	0
Newspaper	0.0%	0.0%	9	Prunings and Trimmings	0.0%	0.0%	0
White Ledger Paper	0.6%	0.4%	303	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	2.3%	2.0%	1,193	Manures	0.0%	0.0%	0
Magazines and Catalogs	2.5%	3.1%	1,285	Textiles	0.2%	0.2%	78
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	4.2%	2.3%	2,162	Remainder/Composite Organic	0.2%	0.4%	122
Other Miscellaneous Paper - Other	1.9%	1.1%	967	·			
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.5%	0.4%	248	Inerts and Other	0.1%		61
Remainder/Composite Paper - Compostable	0.7%	0.4%	360	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.9%	0.9%	477	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	11.6%		5,942	Clean Dimensional Lumber	0.1%	0.2%	61
Clear Glass Bottles and Containers - CRV	4.7%	3.1%	2,407	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	4.6%	2.7%	2,339	Clean Pallets & Crates	0.0%	0.0%	Õ
Green Glass Bottles and Containers - CRV	0.3%	0.4%	169	Other Wood Waste	0.0%	0.0%	õ
Green Glass Bottles and Containers - Non-CRV	0.3%	0.6%	177	Gypsum Board	0.0%	0.0%	õ
Brown Glass Bottles and Containers - CRV	1.0%	1.0%	520	Rock, Soil and Fines	0.0%	0.0%	Ő
Brown Glass Bottles and Containers - Non-CRV	0.6%	1.1%	330	Remainder/Composite Inerts and Other	0.0%	0.0%	Ő
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0	Remainder/Composite mens and Other	0.070	0.070	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	0	Vehicle and Equipment Fluids	0.0%	0.0%	0
Remainder/Composite Glass	0.078	0.076	0	Used Oil	0.0%	0.0%	0
Matal	4 00/		2 520				
Metal	4.9%	0.00/	2,520	Batteries	0.0%	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.7%	0.9%	369	Mercury-Containing Items - Not Lamps	0.0%	0.0%	
Tin/Steel Cans - Other	3.3%	1.9%	1,689	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0				-
Other Ferrous	0.0%	0.0%	0	Special Waste	0.0%	0.00/	0
Aluminum Cans - CRV	0.4%	0.4%	208	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	0	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.5%	0.7%	255	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.0%	0.0%	0	Tires	0.0%	0.0%	0
				Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.4%		219				
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	0				
Other Small Consumer Electronics	0.4%	0.6%	219				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Disada			40.007				
Plastic	23.6%	0.00/	12,037				
PETE Containers - CRV	1.7%	0.8%	848				
PETE Containers - Non-CRV	5.3%	6.7%	2,733				
HDPE Containers - CRV	0.1%	0.1%	46				
HDPE Containers - Non-CRV	2.6%	1.3%	1,344				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	4.4%	3.1%	2,243				
Plastic Trash Bags	1.4%	1.1%	697				
Plastic Grocery and Other Merchandise Bags	0.4%	0.5%	195				
Non-Bag Commercial and Industrial Packaging Film	0.5%	0.7%	241				
Film Products	0.2%	0.3%	123				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	6				
Other Film - Other	1.2%	0.7%	634				
Durable Plastic Items - #2 and #5 Bulky Rigids	3.7%	5.3%	1,870				
Durable Plastic Items - Other	0.2%	0.3%	103	Totals	100%		51,099
Remainder/Composite Plastic	1.9%	1.8%	954	Sampled Streams	12		

## Table 145. Detailed Composition – Curbside Organics: Retail Trade – Food & Beverage Stores

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	10.2%		4,504	Other Organic	89.4%		39,469
Uncoated Corrugated Cardboard	1.9%	3.4%	830	Food	61.1%	14.4%	26,959
Paper Bags	0.0%	0.0%	0	Leaves and Grass		22.0%	12,510
Newspaper	0.0%	0.0%	Õ	Prunings and Trimmings	0.0%		0
White Ledger Paper	0.0%	0.0%	Õ	Branches and Stumps	0.0%		0
Other Office Paper	0.0%	0.0%	Õ	Manures	0.0%		0
Magazines and Catalogs	0.0%	0.0%	Õ	Textiles	0.0%	0.0%	0
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	0.8%	1.4%	348	Remainder/Composite Organic	0.0%	0.0%	0
Other Miscellaneous Paper - Other	0.0%	0.0%	0	rtemaniden, eempeene erganie	0.070	0.070	Ŭ
Remainder/Composite Paper - Rigid Food & Beverage Cartons		0.0%	Õ	Inerts and Other	0.0%		0
Remainder/Composite Paper - Compostable		12.9%	3,326	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.0%	0.0%	0	Asphalt Paving	0.0%	0.0%	0
·····				Asphalt Roofing	0.0%	0.0%	0
Glass	0.0%		0	Clean Dimensional Lumber	0.0%		0
Clear Glass Bottles and Containers - CRV	0.0%	0.0%	õ	Clean Engineered Wood	0.0%		õ
Clear Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Õ	Clean Pallets & Crates	0.0%		õ
Green Glass Bottles and Containers - CRV	0.0%	0.0%	õ	Other Wood Waste	0.0%		õ
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Õ	Gypsum Board	0.0%	0.0%	õ
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	Ő	Rock, Soil and Fines	0.0%	0.0%	Ő
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Ő	Remainder/Composite Inerts and Other	0.0%	0.0%	0 0
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0	Remainder/Composite ments and Other	0.070	0.070	0
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	0	Vehicle and Equipment Fluids	0.0%	0.0%	0
Remainder/Composite Glass	0.070	0.070	0	Used Oil	0.0%	0.0%	0
Metal	0.1%		56	Batteries	0.0%		0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	0		0.0%		0
Tin/Steel Cans - Other	0.0%	0.0%	0	Mercury-Containing Items - Not Lamps Lamps - Fluorescent and LED	0.0%		0
	0.0%	0.0%	0				0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
Used Oil Filters		0.0%	0	Creation Manufa	0.0%		0
Other Ferrous	0.0%			Special Waste		0.00/	
Aluminum Cans - CRV	0.0%	0.0%	0	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	-	Treated Medical Waste	0.0%		
Other Non-Ferrous	0.1%	0.2%	56	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.0%	0.0%	0	Tires	0.0%	0.0%	0
	0.00/			Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%	0.00/	0	Mine I Desite a	0.00/	0.00/	•
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	0				
Other Small Consumer Electronics	0.0%	0.0%	0				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Plastic	0.3%		125				
PETE Containers - CRV	0.0%	0.0%	5				
PETE Containers - Non-CRV	0.0%	0.0%	0				
HDPE Containers - CRV	0.0%	0.0%	0				
HDPE Containers - CRV HDPE Containers - Non-CRV	0.0%	0.0%	14				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	0.0%	0.0%	0				
Plastic Trash Bags	0.0%	0.0%	0				
Plastic Grocery and Other Merchandise Bags	0.1%	0.2%	39				
Non-Bag Commercial and Industrial Packaging Film	0.0%	0.0%	0				
Film Products	0.0%	0.0%	0				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	0				
Other Film - Other	0.2%	0.2%	68				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0.0%	0				
Durable Plastic Items - Other	0.0%	0.0%	0	Totals	100%		44,153
Remainder/Composite Plastic	0.0%	0.0%	0	Sampled Streams	5		

## Table 146. Detailed Composition – Other Diversion: Retail Trade – Food & Beverage Stores

	Estimated	Estimated		Estimated	Estimated
Material	Percent	Tons	Material	Percent	Tons
Paper	66.2%	1,173,870	Other Organic	27.7%	491,810
Uncoated Corrugated Cardboard	65.3%	1,158,555	Food	27.7%	491,808
Paper Bags	0.0%	0	Leaves and Grass	0.0%	0
Newspaper	0.0%	õ	Prunings and Trimmings	0.0%	õ
White Ledger Paper	0.0%	862	Branches and Stumps	0.0%	Ō
Other Office Paper	0.0%	130	Manures	0.0%	0
Magazines and Catalogs	0.0%	0	Textiles	0.0%	2
Phone Books and Directories	0.0%	0	Carpet	0.0%	0
Other Miscellaneous Paper - Compostable	0.1%	959	Remainder/Composite Organic	0.0%	0
Other Miscellaneous Paper - Other	0.0%	697	Komaniach Composito Organio	0.070	Ũ
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	144	Inerts and Other	4.4%	78,072
Remainder/Composite Paper - Compostable	0.7%	12,119	Concrete	0.0%	0
Remainder/Composite Paper - Other	0.0%	404	Asphalt Paving	0.0%	Ō
			Asphalt Roofing	0.0%	0
Glass	0.4%	7,708	Clean Dimensional Lumber	0.0%	0
Clear Glass Bottles and Containers - CRV	0.2%	3,437	Clean Engineered Wood	0.0%	Ō
Clear Glass Bottles and Containers - Non-CRV	0.0%	307	Clean Pallets & Crates	4.4%	77,683
Green Glass Bottles and Containers - CRV	0.1%	2,461	Other Wood Waste	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.0%	0	Gypsum Board	0.0%	0
Brown Glass Bottles and Containers - CRV	0.1%	1,503	Rock, Soil and Fines	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%	0	Remainder/Composite Inerts and Other	0.0%	389
Other Colored Glass Bottles and Containers - CRV	0.0%	0	· · · · · · · · · · · · · · · · · · ·		
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0	Household Hazardous Waste	0.0%	0
Flat Glass	0.0%	0	Paint	0.0%	0
Remainder/Composite Glass	0.0%	0	Vehicle and Equipment Fluids	0.0%	0
·			Used Oil	0.0%	0
Metal	0.1%	1,319	Batteries	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	20	Mercury-Containing Items - Not Lamps	0.0%	0
Tin/Steel Cans - Other	0.0%	0	Lamps - Fluorescent and LED	0.0%	0
Major Appliances	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0
Used Oil Filters	0.0%	0			
Other Ferrous	0.0%	655	Special Waste	0.0%	316
Aluminum Cans - CRV	0.0%	640	Ash	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0	Treated Medical Waste	0.0%	0
Other Non-Ferrous	0.0%	4	Bulky Items	0.0%	316
Remainder/Composite Metal	0.0%	0	Tires	0.0%	0
			Remainder/Composite Special Waste	0.0%	0
Electronics	0.0%	301			
Brown Goods	0.0%	0	Mixed Residue	0.0%	0
Computer-related Electronics	0.0%	267			
Other Small Consumer Electronics	0.0%	0			
Video Display Devices - CRT	0.0%	0			
Video Display Devices - Other	0.0%	34			
Plastic	1.1%	19,753			
PETE Containers - CRV	0.0%	609			
PETE Containers - Non-CRV	0.1%	2,605			
HDPE Containers - CRV	0.0%	2,000			
HDPE Containers - Non-CRV	0.0%	Ő			
Miscellaneous Plastic Containers - CRV	0.0%	Ő			
Miscellaneous Plastic Containers - Non-CRV	0.0%	823			
Plastic Trash Bags	0.0%	870			
Plastic Grocery and Other Merchandise Bags	0.0%	0,0			
Non-Bag Commercial and Industrial Packaging Film	0.4%	6,545			
Film Products	0.4%	4.144			
Other Film - Flexible Plastic Pouches	0.2%	4,144			
Other Film - Other	0.0%	736			
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	182			
	0.1%	1,304	Totals	100%	1,773,150
Durable Plastic Items - Other					

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

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#### Table 147. Detailed Composition – Disposed: Retail Trade – All Other

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	26.2%		637,019	Other Organic	33.8%	-	822,508
Uncoated Corrugated Cardboard	3.6%	0.9%	86,682	Food	18.0%	4.8%	437,469
Paper Bags	0.5%	0.1%	11,311	Leaves and Grass	2.4%	2.4%	58,655
Newspaper	1.9%	0.5%	45,206	Prunings and Trimmings	0.4%	0.5%	9,855
White Ledger Paper	1.9%	0.6%	45,331	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	2.2%	0.6%	52,929	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.7%	0.3%	17,659	Textiles	4.4%	3.4%	107,155
Phone Books and Directories	0.0%	0.1%	953	Carpet	1.7%	1.8%	40,931
Other Miscellaneous Paper - Compostable	0.4%	0.3%	9,578	Remainder/Composite Organic	6.9%	2.6%	168,443
Other Miscellaneous Paper - Other	3.4%	0.7%	83,610				
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.2%	0.1%	3,856	Inerts and Other	16.2%		394,471
Remainder/Composite Paper - Compostable	8.6%	1.4%	209,655	Concrete	0.0%	0.0%	25
Remainder/Composite Paper - Other	2.9%	0.7%	70,250	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.2%	0.3%	4,760
Glass	2.1%		51,520	Clean Dimensional Lumber	0.4%	0.3%	10,646
Clear Glass Bottles and Containers - CRV	0.6%	0.2%	13,970	Clean Engineered Wood	0.0%	0.0%	332
Clear Glass Bottles and Containers - Non-CRV	0.8%	1.0%	19,159	Clean Pallets & Crates	5.6%	3.0%	135,886
Green Glass Bottles and Containers - CRV	0.2%	0.1%	5,155	Other Wood Waste	3.3%	2.9%	80,619
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	953	Gypsum Board	1.4%	1.7%	34,448
Brown Glass Bottles and Containers - CRV	0.2%	0.1%	3,731	Rock, Soil and Fines	0.6%	0.6%	14,668
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	310	Remainder/Composite Inerts and Other	4.6%	3.6%	113,086
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0				
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.2%		5,239
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	464
Remainder/Composite Glass	0.3%	0.4%	8,242	Vehicle and Equipment Fluids	0.1%	0.2%	3,266
				Used Oil	0.0%	0.0%	0
Metal	5.7%		139,103	Batteries	0.0%	0.0%	312
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	584	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.2%	0.1%	5,607	Lamps - Fluorescent and LED	0.0%	0.0%	40
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.1%	1,157
Used Oil Filters	0.0%	0.0%	748	0	4 00/		
Other Ferrous	1.4%	1.0%	34,307	Special Waste	1.6%	0.00/	39,654
Aluminum Cans - CRV	0.2%	0.1%	5,365	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	242	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.9%	0.6%	21,774	Bulky Items	1.6%	2.1%	39,255
Remainder/Composite Metal	2.9%	1.9%	70,476	Tires	0.0% 0.0%	0.0% 0.0%	0 399
Electronics	0.2%		5,843	Remainder/Composite Special Waste	0.0%	0.0%	399
Brown Goods	0.2%	0.0%	<b>3,843</b>	Mixed Residue	0.3%	0.3%	7,062
Computer-related Electronics	0.0%	0.0%	0	WIXed Residue	0.3 /0	0.3 /0	7,002
Other Small Consumer Electronics	0.0%	0.0%	2,393				
Video Display Devices - CRT	0.1%	0.2 %	2,393				
Video Display Devices - Other	0.0%	0.0%	3,450				
video Display Devices - Other	0.176	0.2 /0	3,430				
Plastic	13.6%		331.572				
PETE Containers - CRV	0.6%	0.2%	14.614				
PETE Containers - Non-CRV	0.3%	0.2%	7,201				
HDPE Containers - CRV	0.0%	0.1%	1,726				
HDPE Containers - Non-CRV	0.5%	0.2%	11.422				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	288				
Miscellaneous Plastic Containers - Crtv	0.0%	0.0%	4.921				
Plastic Trash Bags	2.1%	0.5%	50,209				
Plastic Grocery and Other Merchandise Bags	0.3%	0.0%	6,896				
Non-Bag Commercial and Industrial Packaging Film	0.6%	0.3%	15,208				
Film Products	0.0%	0.0%	13,200				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	754				
Other Film - Other	2.5%	1.1%	60,571				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.2%	0.2%	4,499				
Durable Plastic Items - Other	2.0%	1.1%	49,853	Totals	100%		2,433,989
Remainder/Composite Plastic	4.2%	1.5%	103,411	Sampled Streams	53		_,,,,
Confidence intervals calculated at the 90% confidence level. Percent							

#### Table 148. Detailed Composition – Curbside Recycle: Retail Trade – All Other

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	81.5%		96,102	Other Organic	6.7%		7,898
Uncoated Corrugated Cardboard	72.1%	13.5%	84,949	Food	0.8%	0.6%	908
Paper Bags	0.7%	0.5%	855	Leaves and Grass	0.0%	0.0%	0
Newspaper	0.2%	0.1%	228	Prunings and Trimmings	0.0%	0.0%	0
White Ledger Paper	0.9%	0.6%	1,092	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	0.9%	0.7%	1,094	Manures	0.0%	0.0%	0
Magazines and Catalogs	1.5%	0.9%	1,751	Textiles	0.0%	0.0%	1
Phone Books and Directories	0.2%	0.3%	214	Carpet	5.9%	9.1%	6,989
Other Miscellaneous Paper - Compostable	1.0%	0.7%	1,172	Remainder/Composite Organic	0.0%	0.0%	0
Other Miscellaneous Paper - Other	3.7%	2.0%	4,326				
Remainder/Composite Paper - Rigid Food & Beverage Cartons		0.0%	12	Inerts and Other	0.1%	0.00/	131
Remainder/Composite Paper - Compostable	0.2%	0.2%	216	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.2%	0.2%	193	Asphalt Paving	0.0%	0.0%	0
Class	0.2%		284	Asphalt Roofing	0.0%	0.0%	0
Glass	0.2% 0.2%	0.2%	<b>284</b> 216	Clean Dimensional Lumber	0.1%	0.2%	131 0
Clear Glass Bottles and Containers - CRV Clear Glass Bottles and Containers - Non-CRV	0.2%	0.2%	210	Clean Engineered Wood Clean Pallets & Crates	0.0% 0.0%	0.0% 0.0%	0
	0.0%	0.0%	0	Other Wood Waste	0.0%	0.0%	0
Green Glass Bottles and Containers - CRV Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0		0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	68	Rock, Soil and Fines Remainder/Composite Inerts and Other	0.0%	0.0%	0
Other Colored Glass Bottles and Containers - ROV	0.1%	0.1%	00	Remainder/Composite ments and Other	0.078	0.076	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		13
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	0	Vehicle and Equipment Fluids	0.0%	0.0%	0
Remainder/Composite Glass	0.070	0.070	0	Used Oil	0.0%	0.0%	0
Metal	1.5%		1,795	Batteries	0.0%	0.0%	ŏ
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	32	Mercury-Containing Items - Not Lamps	0.0%	0.0%	Ő
Tin/Steel Cans - Other	0.0%	0.0%	12	Lamps - Fluorescent and LED	0.0%	0.0%	13
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	Ō	· · · · · · · · · · · · · · · · · · ·			
Other Ferrous	1.0%	1.4%	1,130	Special Waste	0.0%		0
Aluminum Cans - CRV	0.1%	0.0%	61	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	28	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.1%	0.1%	146	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.3%	0.5%	386	Tires	0.0%	0.0%	0
				Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		42				
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.1%	0.1%	108
Computer-related Electronics	0.0%	0.0%	0				
Other Small Consumer Electronics	0.0%	0.1%	42				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Plastic	9.7%		11,488				
PETE Containers - CRV	0.2%	0.2%	294				
PETE Containers - Non-CRV	0.2%	0.1%	253				
HDPE Containers - CRV	0.2%	0.0%	200				
HDPE Containers - Non-CRV	0.7%	0.8%	883				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	000				
Miscellaneous Plastic Containers - Non-CRV	0.1%	0.1%	122				
Plastic Trash Bags	0.1%	0.1%	121				
Plastic Grocery and Other Merchandise Bags	4.0%	5.4%	4.687				
Non-Bag Commercial and Industrial Packaging Film	1.9%	2.1%	2,274				
Film Products	0.0%	0.0%	2,274				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	8				
Other Film - Other	1.1%	0.6%	1,272				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0.0%	0				
Durable Plastic Items - Other	0.2%	0.4%	270	Totals	100%		117,861
Remainder/Composite Plastic	1.1%	0.6%	1,296	Sampled Streams	18		,
Confidence intervals calculated at the 90% confidence level. Percent	ages for mate	rial types	mav not total 1	00% due to roundina.			

contraence intervals calculated at the 90% contraence level. Percentages for material types may not total 100% due to rounding.

### Table 149. Detailed Composition – Curbside Organics: Retail Trade – All Other

None of the selected Retail Trade – All Other sites had a Curbside Organics stream.

#### Table 150. Detailed Composition – Other Diversion: Retail Trade – All Other

	Estimated	Estimated		Estimated	Estimated
Material	Percent	Tons	Material	Percent	Tons
Paper	87.8%	165,287	Other Organic	1.6%	2,956
Uncoated Corrugated Cardboard	87.8%	165,222	Food	1.6%	2,956
Paper Bags	0.0%	0	Leaves and Grass	0.0%	0
Newspaper	0.0%	0	Prunings and Trimmings	0.0%	0
White Ledger Paper	0.0%	0	Branches and Stumps	0.0%	0
Other Office Paper	0.0%	65	Manures	0.0%	0
Magazines and Catalogs	0.0%	0	Textiles	0.0%	0
Phone Books and Directories	0.0%	0	Carpet	0.0%	0
Other Miscellaneous Paper - Compostable	0.0%	0	Remainder/Composite Organic	0.0%	0
Other Miscellaneous Paper - Other	0.0%	0			
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0	Inerts and Other	7.9%	14,951
Remainder/Composite Paper - Compostable	0.0%	0	Concrete	0.0%	0
Remainder/Composite Paper - Other	0.0%	0	Asphalt Paving	0.0%	0
			Asphalt Roofing	0.0%	0
Glass	0.2%	351	Clean Dimensional Lumber	0.0%	0
Clear Glass Bottles and Containers - CRV	0.2%	292	Clean Engineered Wood	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.0%	59	Clean Pallets & Crates	7.9%	14,951
Green Glass Bottles and Containers - CRV	0.0%	0	Other Wood Waste	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.0%	0	Gypsum Board	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	0	Rock, Soil and Fines	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0			
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0	Household Hazardous Waste	0.0%	0
Flat Glass	0.0%	0	Paint	0.0%	0
Remainder/Composite Glass	0.0%	0	Vehicle and Equipment Fluids	0.0%	0
			Used Oil	0.0%	0
Metal	0.3%	624	Batteries	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0	Mercury-Containing Items - Not Lamps	0.0%	0
Tin/Steel Cans - Other	0.0%	0	Lamps - Fluorescent and LED	0.0%	0
Major Appliances	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0
Used Oil Filters	0.0%	0	·		
Other Ferrous	0.1%	227	Special Waste	0.2%	383
Aluminum Cans - CRV	0.2%	321	Ash	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0	Treated Medical Waste	0.0%	0
Other Non-Ferrous	0.0%	76	Bulky Items	0.2%	383
Remainder/Composite Metal	0.0%	0	Tires	0.0%	0
· · · · · · · · · · · · · · · · · · ·			Remainder/Composite Special Waste	0.0%	0
Electronics	0.7%	1,343	· · · · · · · · · · · · · · · · · · ·		
Brown Goods	0.0%	0	Mixed Residue	0.0%	0
Computer-related Electronics	0.7%	1,343			
Other Small Consumer Electronics	0.0%	0			
Video Display Devices - CRT	0.0%	0			
Video Display Devices - Other	0.0%	Ō			
Plastic	1.2%	2,257			
PETE Containers - CRV	0.6%	1,158			
PETE Containers - Non-CRV	0.0%	40			
HDPE Containers - CRV	0.0%	39			
HDPE Containers - Non-CRV	0.0%	0			
Miscellaneous Plastic Containers - CRV	0.0%	0			
Miscellaneous Plastic Containers - Non-CRV	0.0%	0			
Plastic Trash Bags	0.0%	52			
Plastic Grocery and Other Merchandise Bags	0.0%	0			
Non-Bag Commercial and Industrial Packaging Film	0.5%	968			
Film Products	0.0%	0			
Other Film - Flexible Plastic Pouches	0.0%	0			
Other Film - Other	0.0%	0			
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0			
Durable Plastic Items - Other	0.0%	0	Totals	100%	188,152
Remainder/Composite Plastic	0.0%	Ō	Sampled Streams	26	<i>,</i> -

# Table 151. Detailed Composition – Disposed: Services – Management,Administrative, Support, & Social

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	24.1%		364,763	Other Organic	45.3%		685,882
Uncoated Corrugated Cardboard	1.7%	0.5%	25,078	Food	24.9%	4.8%	376,502
Paper Bags	0.4%	0.3%	5,872	Leaves and Grass	5.7%	2.7%	86,284
Newspaper	1.4%	0.4%	20.872	Prunings and Trimmings	2.9%	1.5%	43,907
White Ledger Paper	1.6%	0.5%	24,164	Branches and Stumps	0.2%	0.4%	3,631
Other Office Paper	2.1%	0.9%	31,117	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.8%	0.4%	12,419	Textiles	2.3%	0.7%	35,448
Phone Books and Directories	0.0%	0.0%	0	Carpet	1.0%	1.7%	15,305
Other Miscellaneous Paper - Compostable	0.3%	0.3%	4,711	Remainder/Composite Organic	8.2%	3.1%	124,806
Other Miscellaneous Paper - Other	3.2%	0.6%	48,264	1			,
Remainder/Composite Paper - Rigid Food & Beverage Cartons		0.1%	6,210	Inerts and Other	11.9%		180,738
Remainder/Composite Paper - Compostable	10.9%	1.6%	164,498	Concrete	0.1%	0.2%	1,942
Remainder/Composite Paper - Other	1.4%	0.4%	21,559	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	42
Glass	1.4%		21,391	Clean Dimensional Lumber	0.6%	0.5%	8,881
Clear Glass Bottles and Containers - CRV	0.3%	0.2%	4,056	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.2%	0.1%	3,523	Clean Pallets & Crates	4.0%	3.4%	60,814
Green Glass Bottles and Containers - CRV	0.0%	0.0%	410	Other Wood Waste	4.3%	3.9%	65,386
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	293	Gypsum Board	1.4%	1.5%	20,486
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	245	Rock, Soil and Fines	1.3%	1.6%	19,958
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	113	Remainder/Composite Inerts and Other	0.2%	0.2%	3,229
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	57	·			
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	350	Household Hazardous Waste	0.3%		4,997
Flat Glass	0.6%	0.9%	9,736	Paint	0.1%	0.1%	1,061
Remainder/Composite Glass	0.2%	0.1%	2,608	Vehicle and Equipment Fluids	0.0%	0.0%	0
				Used Oil	0.0%	0.0%	0
Metal	3.6%		54,110	Batteries	0.0%	0.0%	61
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.1%	634	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.3%	0.1%	4,702	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.3%	0.3%	3,876
Used Oil Filters	0.0%	0.0%	42				
Other Ferrous	0.5%	0.3%	7,023	Special Waste	0.2%		3,177
Aluminum Cans - CRV	0.1%	0.0%	1,889	Ash	0.1%	0.1%	1,286
Aluminum Cans - Non-CRV	0.1%	0.1%	1,062	Treated Medical Waste	0.1%	0.2%	1,712
Other Non-Ferrous	1.5%	1.9%	22,479	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	1.1%	0.7%	16,278	Tires	0.0%	0.0%	180
				Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	2.0%		29,910				
Brown Goods	0.1%	0.1%	1,273	Mixed Residue	0.4%	0.4%	6,457
Computer-related Electronics	0.1%	0.1%	993				
Other Small Consumer Electronics	0.0%	0.0%	104				
Video Display Devices - CRT	1.8%	2.0%	26,548				
Video Display Devices - Other	0.1%	0.1%	993				
Plastic	10.8%		163,240				
PETE Containers - CRV	0.2%	0.1%	3,566				
PETE Containers - Non-CRV	0.2%	0.0%	2,366				
HDPE Containers - CRV	0.0%	0.0%	685				
HDPE Containers - Non-CRV	0.2%	0.1%	3,560				
Miscellaneous Plastic Containers - CRV	0.1%	0.1%	854				
Miscellaneous Plastic Containers - Non-CRV	0.3%	0.1%	4,130				
Plastic Trash Bags	2.2%	0.3%	33,468				
Plastic Grocery and Other Merchandise Bags	0.2%	0.1%	3,121				
Non-Bag Commercial and Industrial Packaging Film	0.0%	0.0%	604				
Film Products	0.0%	0.0%	61				
Other Film - Flexible Plastic Pouches	0.1%	0.0%	1,340				
Other Film - Other	1.4%	0.3%	21,919				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0.0%	557				
Durable Plastic Items - Other	1.1%	0.5%	15,913	Totals	100%		1,514,667
Remainder/Composite Plastic	4.7%	1.3%	71,096	Sampled Streams	54		

# Table 152. Detailed Composition – Curbside Recycle: Services – Management,Administrative, Support, & Social

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	70.5%		156,104	Other Organic	11.5%		25,423
Uncoated Corrugated Cardboard	36.1%	8.6%	80,005	Food	1.8%	1.4%	3,882
Paper Bags	1.3%	0.8%	2,877	Leaves and Grass	0.0%	0.0%	0
Newspaper	1.5%	1.8%	3,293	Prunings and Trimmings	0.0%	0.0%	0
White Ledger Paper	9.4%	8.0%	20,819	Branches and Stumps	8.0%	9.9%	17,723
Other Office Paper	4.4%	2.7%	9,740	Manures	0.0%	0.0%	0
Magazines and Catalogs	4.2%	4.5%	9,202	Textiles	1.2%	0.9%	2,731
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	3.1%	3.5%	6,879	Remainder/Composite Organic	0.5%	0.7%	1,087
Other Miscellaneous Paper - Other	4.6%	3.8%	10,106				
Remainder/Composite Paper - Rigid Food & Beverage Cartons		0.2%	601	Inerts and Other	0.3%		587
Remainder/Composite Paper - Compostable	2.3%	1.8%	4,984	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	3.4%	2.5%	7,599	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	50
Glass	4.7%		10,324	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	0.2%	0.4%	533	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	1.6%	1.3%	3,627	Clean Pallets & Crates	0.0%	0.0%	0
Green Glass Bottles and Containers - CRV	0.0%	0.0%	0	Other Wood Waste	0.0%	0.0%	0
Green Glass Bottles and Containers - Non-CRV	1.8%	1.8%	4,000	Gypsum Board	0.2%	0.3%	537
Brown Glass Bottles and Containers - CRV	0.5%	0.6%	1,194	Rock, Soil and Fines	0.0%	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0		0.00/		
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%	0.00/	77
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.4%	0.5%	970	Vehicle and Equipment Fluids	0.0%	0.0%	0
N	0 70/		5 00 4	Used Oil	0.0%	0.0%	0
Metal	2.7%	0.00/	5,994	Batteries	0.0%	0.0%	66
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	0	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	1.7%	1.5%	3,807	Lamps - Fluorescent and LED	0.0%	0.0%	11
Major Appliances Used Oil Filters	0.0% 0.0%	0.0% 0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
				Special Weeks	0.49/		287
Other Ferrous	0.1%	0.2%	274	Special Waste	0.1%	0.00/	
Aluminum Cans - CRV Aluminum Cans - Non-CRV	0.1% 0.0%	0.0% 0.0%	129 34	Ash Treated Medical Waste	0.0% 0.0%	0.0% 0.0%	0
Other Non-Ferrous	0.0%	1.3%	1,725	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.0%	0.0%	25	Tires	0.0%	0.0%	0
Remainder/Composite Metal	0.078	0.0 /6	20	Remainder/Composite Special Waste	0.0%	0.0%	287
Electronics	0.1%		286	Remainder/Composite Special Waste	0.170	0.270	207
Brown Goods	0.0%	0.0%	200	Mixed Residue	0.1%	0.2%	280
Computer-related Electronics	0.0%	0.0%	286	Wilked Residue	0.170	0.2 /0	200
Other Small Consumer Electronics	0.0%	0.0%	200				
Video Display Devices - CRT	0.0%	0.0%	õ				
Video Display Devices - Other	0.0%	0.0%	õ				
	01070	0.070	•				
Plastic	10.0%		22,056				
PETE Containers - CRV	0.4%	0.3%	958				
PETE Containers - Non-CRV	0.8%	0.6%	1,864				
HDPE Containers - CRV	0.0%	0.0%	0				
HDPE Containers - Non-CRV	0.3%	0.2%	610				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	0.5%	0.4%	1,118				
Plastic Trash Bags	0.5%	0.3%	1,153				
Plastic Grocery and Other Merchandise Bags	0.7%	0.9%	1,476				
Non-Bag Commercial and Industrial Packaging Film	0.0%	0.0%	4				
Film Products	0.0%	0.0%	8				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	86				
Other Film - Other	0.5%	0.3%	1,184				
Durable Plastic Items - #2 and #5 Bulky Rigids	2.9%	3.1%	6,342				
Durable Plastic Items - Other	1.8%	2.0%	3,974	Totals	100%		221,419
Remainder/Composite Plastic	1.5%	1.0%	3,278	Sampled Streams	26		-

# Table 153. Detailed Composition – Curbside Organics: Services – Management,Administrative, Support, & Social

	Estimated Percent 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	+/- 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Estimated Tons	Material Other Organic Food Leaves and Grass Prunings and Trimmings Branches and Stumps Manures	Estimated Percent 100.0% 0.0% 98.8% 1.1% 0.0%	+/- 0.0% 3.7% 3.7%	Estimated Tons 1,161,461 184 1,147,946 13,331
Uncoated Corrugated Cardboard Paper Bags Newspaper White Ledger Paper Other Office Paper Magazines and Catalogs Phone Books and Directories Other Miscellaneous Paper - Compostable Other Miscellaneous Paper - Other Remainder/Composite Paper - Rigid Food & Beverage Cartons Remainder/Composite Paper - Compostable	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0 0 0 0 0 0 0	Food Leaves and Grass Prunings and Trimmings Branches and Stumps Manures	0.0% 98.8% 1.1% 0.0%	3.7% 3.7%	184 1,147,946
Uncoated Corrugated Cardboard Paper Bags Newspaper White Ledger Paper Other Office Paper Magazines and Catalogs Phone Books and Directories Other Miscellaneous Paper - Compostable Other Miscellaneous Paper - Other Remainder/Composite Paper - Rigid Food & Beverage Cartons Remainder/Composite Paper - Compostable	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0 0 0 0 0 0	Food Leaves and Grass Prunings and Trimmings Branches and Stumps Manures	98.8% 1.1% 0.0%	3.7% 3.7%	184 1,147,946
Paper Bags Newspaper White Ledger Paper Other Office Paper Magazines and Catalogs Phone Books and Directories Other Miscellaneous Paper - Compostable Other Miscellaneous Paper - Other Remainder/Composite Paper - Rigid Food & Beverage Cartons Remainder/Composite Paper - Compostable	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0 0 0 0 0	Prunings and Trimmings Branches and Stumps Manures	98.8% 1.1% 0.0%	3.7% 3.7%	
Newspaper White Ledger Paper Other Office Paper Magazines and Catalogs Phone Books and Directories Other Miscellaneous Paper - Compostable Other Miscellaneous Paper - Other Remainder/Composite Paper - Rigid Food & Beverage Cartons Remainder/Composite Paper - Compostable	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0.0% 0.0% 0.0% 0.0% 0.0%	0 0 0 0 0	Prunings and Trimmings Branches and Stumps Manures	1.1% 0.0%	3.7%	
White Ledger Paper Other Office Paper Magazines and Catalogs Phone Books and Directories Other Miscellaneous Paper - Compostable Other Miscellaneous Paper - Other Remainder/Composite Paper - Rigid Food & Beverage Cartons Remainder/Composite Paper - Compostable	0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0.0% 0.0% 0.0% 0.0% 0.0%	0 0 0 0	Branches and Stumps Manures	0.0%		
Other Office Paper Magazines and Catalogs Phone Books and Directories Other Miscellaneous Paper - Compostable Other Miscellaneous Paper - Other Remainder/Composite Paper - Rigid Food & Beverage Cartons Remainder/Composite Paper - Compostable	0.0% 0.0% 0.0% 0.0% 0.0%	0.0% 0.0% 0.0% 0.0%	0	Manures		0.0%	0
Magazines and Catalogs Phone Books and Directories Other Miscellaneous Paper - Compostable Other Miscellaneous Paper - Other Remainder/Composite Paper - Rigid Food & Beverage Cartons Remainder/Composite Paper - Compostable	0.0% 0.0% 0.0% 0.0%	0.0% 0.0%	Ō	-	0.0%	0.0%	Ō
Phone Books and Directories Other Miscellaneous Paper - Compostable Other Miscellaneous Paper - Other Remainder/Composite Paper - Rigid Food & Beverage Cartons Remainder/Composite Paper - Compostable	0.0% 0.0% 0.0% 0.0%	0.0% 0.0%		Textiles	0.0%	0.0%	Ō
Other Miscellaneous Paper - Compostable Other Miscellaneous Paper - Other Remainder/Composite Paper - Rigid Food & Beverage Cartons Remainder/Composite Paper - Compostable	0.0% 0.0% 0.0%	0.0%		Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Other Remainder/Composite Paper - Rigid Food & Beverage Cartons Remainder/Composite Paper - Compostable	0.0% 0.0%		0	Remainder/Composite Organic	0.0%	0.0%	0
Remainder/Composite Paper - Rigid Food & Beverage Cartons Remainder/Composite Paper - Compostable	0.0%	0.0%	Õ	·····			•
Remainder/Composite Paper - Compostable		0.0%	Õ	Inerts and Other	0.0%		0
	0.0%	0.0%	0	Concrete	0.0%	0.0%	0
	0.0%	0.0%	0	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	0.0%		0	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	0.0%	0.0%	Õ	Clean Engineered Wood	0.0%	0.0%	Ō
Clear Glass Bottles and Containers - Non-CRV	0.0%	0.0%	õ	Clean Pallets & Crates	0.0%	0.0%	õ
Green Glass Bottles and Containers - CRV	0.0%	0.0%	õ	Other Wood Waste	0.0%	0.0%	õ
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	õ	Gypsum Board	0.0%	0.0%	õ
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	ŏ	Rock, Soil and Fines	0.0%	0.0%	õ
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Ő	Remainder/Composite Inerts and Other	0.0%	0.0%	Õ
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	Ő	Remainder/Composite ments and Other	0.070	0.070	Ū
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%	0.0%	Ő	Paint	0.0%	0.0%	ŏ
Remainder/Composite Glass	0.0%	0.0%	0	Vehicle and Equipment Fluids	0.0%	0.0%	0 0
Remainder/Composite Class	0.070	0.070	0	Used Oil	0.0%	0.0%	ŏ
/letal	0.0%		0	Batteries	0.0%	0.0%	ŏ
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	0	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0 0
Tin/Steel Cans - Other	0.0%	0.0%	0	Lamps - Fluorescent and LED	0.0%	0.0%	0 0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazard		0.0%	0 0
Used Oil Filters	0.0%	0.0%	0	Remainder/Composite Household Hazard	0.070	0.070	0
Other Ferrous	0.0%	0.0%	0	Special Waste	0.0%		0
Aluminum Cans - CRV	0.0%	0.0%	0	Ash	0.0%	0.0%	0
Aluminum Cans - CRV Aluminum Cans - Non-CRV	0.0%	0.0%	0	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	0	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.0%	0.0%	0	Tires	0.0%	0.0%	0
Remainder/Composite Metal	0.070	0.070	0	Remainder/Composite Special Waste	0.0%	0.0%	0 0
Electronics	0.0%		0	Remainder/Composite Special Waste	0.070	0.070	0
Brown Goods	0.0%	0.0%	Ő	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	0	Mixed Residue	0.070	0.070	Ŭ
Other Small Consumer Electronics	0.0%	0.0%	Ő				
Video Display Devices - CRT	0.0%	0.0%	0 0				
Video Display Devices - Other	0.0%	0.0%	0 0				
	01070	0.070	•				
Plastic	0.0%		0				
PETE Containers - CRV	0.0%	0.0%	0				
PETE Containers - Non-CRV	0.0%	0.0%	0				
HDPE Containers - CRV	0.0%	0.0%	0				
HDPE Containers - Non-CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	0.0%	0.0%	Õ				
Plastic Trash Bags	0.0%	0.0%	õ				
Plastic Grocery and Other Merchandise Bags	0.0%	0.0%	õ				
Non-Bag Commercial and Industrial Packaging Film	0.0%	0.0%	Ő				
Film Products	0.0%	0.0%	Ő				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	0				
Other Film - Other	0.0%	0.0%	0				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0.0%	0				
Durable Plastic Items - Other	0.0%	0.0%	0	Totals	100%		1,161,461
Remainder/Composite Plastic	0.0%	0.0%	0 0	Sampled Streams	6		1,101,401

# Table 154. Detailed Composition – Other Diversion: Services – Management,Administrative, Support, & Social

	Estimated	Estimated		Estimated	Estimated
Material	Percent	Tons	Material	Percent	Tons
Paper	10.7%	3,690	Other Organic	5.3%	1,823
Uncoated Corrugated Cardboard	1.6%	551	Food	5.3%	1,823
Paper Bags	0.1%	26	Leaves and Grass	0.0%	0
Newspaper	0.0%	0	Prunings and Trimmings	0.0%	0
White Ledger Paper	1.1%	390	Branches and Stumps	0.0%	0
Other Office Paper	6.9%	2,382	Manures	0.0%	0
Magazines and Catalogs	0.2%	63	Textiles	0.0%	0
Phone Books and Directories	0.0%	0	Carpet	0.0%	0
Other Miscellaneous Paper - Compostable	0.5%	175	Remainder/Composite Organic	0.0%	0
Other Miscellaneous Paper - Other	0.1%	26	,		
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	Ō	Inerts and Other	67.7%	23,419
Remainder/Composite Paper - Compostable	0.2%	70	Concrete	0.0%	0
Remainder/Composite Paper - Other	0.0%	7	Asphalt Paving	0.0%	Ō
	,.	-	Asphalt Roofing	0.0%	Õ
Glass	2.5%	870	Clean Dimensional Lumber	0.0%	Ō
Clear Glass Bottles and Containers - CRV	1.8%	614	Clean Engineered Wood	0.0%	Ő
Clear Glass Bottles and Containers - Non-CRV	0.7%	256	Clean Pallets & Crates	0.0%	Ő
Green Glass Bottles and Containers - CRV	0.0%	200	Other Wood Waste	0.0%	Ő
Green Glass Bottles and Containers - Non-CRV	0.0%	0	Gypsum Board	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	Ő	Rock, Soil and Fines	67.7%	23.419
Brown Glass Bottles and Containers - CrCV Brown Glass Bottles and Containers - Non-CRV	0.0%	0	Remainder/Composite Inerts and Other	0.0%	23,419
Other Colored Glass Bottles and Containers - CRV	0.0%	0	Remainder/Composite mens and Other	0.076	0
Other Colored Glass Bottles and Containers - CRV Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0	Household Hazardous Waste	0.1%	34
Flat Glass	0.0%	0	Paint	0.0%	<b>34</b> 0
		0		0.0%	0
Remainder/Composite Glass	0.0%	0	Vehicle and Equipment Fluids		0
Matal	4 00/		Used Oil	0.0%	
Metal	1.8%	626	Batteries	0.1%	34
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0	Mercury-Containing Items - Not Lamps	0.0%	0
Tin/Steel Cans - Other	0.1%	40	Lamps - Fluorescent and LED	0.0%	0
Major Appliances	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0
Used Oil Filters	0.0%	0			
Other Ferrous	0.7%	225	Special Waste	0.9%	312
Aluminum Cans - CRV	1.0%	343	Ash	0.0%	0
Aluminum Cans - Non-CRV	0.0%	13	Treated Medical Waste	0.0%	0
Other Non-Ferrous	0.0%	4	Bulky Items	0.9%	312
Remainder/Composite Metal	0.0%	0	Tires	0.0%	0
			Remainder/Composite Special Waste	0.0%	0
Electronics	4.7%	1,622			
Brown Goods	0.1%	51	Mixed Residue	0.0%	0
Computer-related Electronics	2.8%	966			
Other Small Consumer Electronics	0.0%	0			
Video Display Devices - CRT	1.7%	572			
Video Display Devices - Other	0.1%	33			
Plastic	6.3%	2,187			
PETE Containers - CRV	0.5%	158			
PETE Containers - CRV PETE Containers - Non-CRV	0.5%	51			
	1.3%	457			
HDPE Containers - CRV					
HDPE Containers - Non-CRV	0.1%	45			
Miscellaneous Plastic Containers - CRV	0.0%	0			
Miscellaneous Plastic Containers - Non-CRV	0.1%	31			
Plastic Trash Bags	0.0%	0			
Plastic Grocery and Other Merchandise Bags	0.0%	0			
Non-Bag Commercial and Industrial Packaging Film	0.0%	0			
Film Products	0.0%	0			
Other Film - Flexible Plastic Pouches	0.0%	0			
Other Film - Other	0.0%	0			
Durable Plastic Items - #2 and #5 Bulky Rigids	4.1%	1,430			
Durable Plastic Items - Other	0.0%	0	Totals	100%	34,583
Remainder/Composite Plastic	0.0%	16	Sampled Streams	21	

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

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# Table 155. Detailed Composition – Disposed: Services – Professional, Technical,& Financial

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	29.1%		1,162,870	Other Organic	23.1%		922,506
Uncoated Corrugated Cardboard	4.1%	1.1%	161,826	Food	8.3%	1.9%	330,452
Paper Bags	0.5%	0.2%	18,127	Leaves and Grass	3.4%	1.7%	136,387
Newspaper	2.5%	0.7%	98,110	Prunings and Trimmings	3.2%	2.9%	127,780
White Ledger Paper	2.1%	0.7%	82,352	Branches and Stumps	0.2%	0.4%	9,686
Other Office Paper	2.4%	0.9%	95,669	Manures	0.0%	0.1%	1,478
Magazines and Catalogs	1.0%	0.5%	37,985	Textiles	2.1%	0.7%	84,487
Phone Books and Directories	0.0%	0.0%	1,100	Carpet	0.6%	0.6%	23,797
Other Miscellaneous Paper - Compostable	0.6%	0.8%	23,243	Remainder/Composite Organic	5.2%	2.0%	208,438
Other Miscellaneous Paper - Other	3.0%	0.7%	121,279				
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.1%	0.0%	2,604	Inerts and Other	25.1%		1,000,711
Remainder/Composite Paper - Compostable	9.9%	3.1%	395,521	Concrete	2.0%	1.5%	79,783
Remainder/Composite Paper - Other	3.1%	3.2%	125,054	Asphalt Paving	1.0%	1.2%	40,743
				Asphalt Roofing	1.1%	1.8%	43,328
Glass	1.4%		55,539	Clean Dimensional Lumber	1.0%	0.7%	40,020
Clear Glass Bottles and Containers - CRV	0.2%	0.1%	7,183	Clean Engineered Wood	1.9%	2.3%	74,531
Clear Glass Bottles and Containers - Non-CRV	0.3%	0.1%	13,157	Clean Pallets & Crates	8.3%	3.8%	332,687
Green Glass Bottles and Containers - CRV	0.2%	0.1%	6,789	Other Wood Waste	3.1%	1.7%	124,307
Green Glass Bottles and Containers - Non-CRV	0.3%	0.3%	10,793	Gypsum Board	0.6%	0.7%	25,730
Brown Glass Bottles and Containers - CRV	0.1%	0.1%	2,897	Rock, Soil and Fines	2.2%	1.7%	89,652
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	331	Remainder/Composite Inerts and Other	3.8%	2.6%	149,929
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	29				
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	174	Household Hazardous Waste	0.2%		7,437
Flat Glass	0.0%	0.0%	943	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.3%	0.3%	13,244	Vehicle and Equipment Fluids	0.0%	0.0%	174
Martal	4 40/		400 400	Used Oil	0.0%	0.0%	0
Metal	4.1%	0.00/	162,103	Batteries	0.0%	0.0%	866
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	847	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.2%	0.1%	7,996	Lamps - Fluorescent and LED	0.0%	0.0%	116
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.2%	0.2%	6,281
Used Oil Filters	0.0%	0.0%	46.400	Special Maste	1.8%		74 000
Other Ferrous	1.2% 0.1%	0.6% 0.0%	46,400 3,749	Special Waste Ash	0.0%	0.0%	<b>71,286</b> 0
Aluminum Cans - CRV	0.1%	0.0%	3,749		0.0%	0.0%	174
Aluminum Cans - Non-CRV Other Non-Ferrous	0.0%	0.0%	37.317	Treated Medical Waste Bulky Items	1.8%	1.3%	70,937
Remainder/Composite Metal	1.6%	1.2%	65,683	Tires	0.0%	0.0%	10,937
Remainder/Composite Metal	1.076	1.2 /0	05,005	Remainder/Composite Special Waste	0.0%	0.0%	174
Electronics	2.0%		78,459	Remainder/Composite Special Waste	0.070	0.070	174
Brown Goods	0.6%	0.7%	23,189	Mixed Residue	0.1%	0.2%	4,898
Computer-related Electronics	0.0%	0.0%	20,100		0.170	0.270	4,000
Other Small Consumer Electronics	0.0%	0.0%	60				
Video Display Devices - CRT	1.4%	1.6%	55,181				
Video Display Devices - Other	0.0%	0.0%	29				
	0.070	0.070	20				
Plastic	13.2%		528,834				
PETE Containers - CRV	0.2%	0.1%	9,864				
PETE Containers - Non-CRV	0.1%	0.0%	4.872				
HDPE Containers - CRV	0.1%	0.0%	2,330				
HDPE Containers - Non-CRV	0.3%	0.2%	12,911				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	956				
Miscellaneous Plastic Containers - Non-CRV	0.2%	0.1%	7,565				
Plastic Trash Bags	1.9%	0.4%	75,623				
Plastic Grocery and Other Merchandise Bags	0.2%	0.0%	7,788				
Non-Bag Commercial and Industrial Packaging Film	0.8%	0.7%	33,130				
Film Products	0.0%	0.0%	00,100				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	1,020				
Other Film - Other	2.1%	1.5%	85,817				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.4%	0.3%	15,730				
Durable Plastic Items - Other	1.1%	0.6%	45,243	Totals	100%		3,994,643
	5.7%	2.6%	225,985	Sampled Streams	53		· , · , <del>-</del> · •

# Table 156. Detailed Composition – Curbside Recycle: Services – Professional,Technical, & Financial

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	86.1%		588,519	Other Organic	0.1%		996
Uncoated Corrugated Cardboard	51.0%	8.9%	348,608	Food	0.1%	0.1%	483
Paper Bags	0.5%	0.4%	3,124	Leaves and Grass	0.0%	0.0%	0
Newspaper	3.2%	4.2%	22,136	Prunings and Trimmings	0.0%	0.0%	0
White Ledger Paper	7.9%	4.9%	54,347	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	3.7%	3.7%	25,540	Manures	0.0%	0.0%	0
Magazines and Catalogs	4.9%	5.0%	33,581	Textiles	0.1%	0.1%	514
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	4.0%	4.7%	27,383	Remainder/Composite Organic	0.0%	0.0%	0
Other Miscellaneous Paper - Other	10.2%	6.6%	69,785	1			
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0.0%	103	Inerts and Other	1.6%		10,908
Remainder/Composite Paper - Compostable	0.2%	0.2%	1,269	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.4%	0.4%	2,644	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	3.5%		23,814	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	1.1%	1.1%	7,399	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	1.4%	1.5%	9,490	Clean Pallets & Crates	1.6%	2.4%	10,908
Green Glass Bottles and Containers - CRV	0.1%	0.1%	570	Other Wood Waste	0.0%	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.4%	0.5%	2,663	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	0.2%	0.3%	1,350	Rock, Soil and Fines	0.0%	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.3%	0.6%	2,342	Remainder/Composite Inerts and Other	0.0%	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0				
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		16
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	0	Vehicle and Equipment Fluids	0.0%	0.0%	0
				Used Oil	0.0%	0.0%	0
Metal	0.7%		4,567	Batteries	0.0%	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	, 0	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.2%	0.1%	1,061	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	16
Used Oil Filters	0.0%	0.0%	0				
Other Ferrous	0.1%	0.1%	765	Special Waste	0.0%		0
Aluminum Cans - CRV	0.2%	0.2%	1,394	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.1%	0.1%	517	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.1%	0.1%	511	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.0%	0.1%	320	Tires	0.0%	0.0%	0
				Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.1%		379				
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	254				
Other Small Consumer Electronics	0.0%	0.0%	125				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
	• •••						
Plastic	8.0%		54,425				
PETE Containers - CRV	0.8%	0.7%	5,354				
PETE Containers - Non-CRV	0.2%	0.2%	1,429				
HDPE Containers - CRV	0.0%	0.0%	22				
HDPE Containers - Non-CRV	0.3%	0.3%	2,021				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	2.7%	4.1%	18,616				
Plastic Trash Bags	0.1%	0.1%	639				
Plastic Grocery and Other Merchandise Bags	0.0%	0.1%	313				
Non-Bag Commercial and Industrial Packaging Film	1.6%	2.4%	10,680				
Film Products	0.0%	0.0%	150				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	0				
Other Film - Other	0.2%	0.1%	1,358				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0.0%	149				
Durable Plastic Items - Other	0.0%	0.0%	110	Totals	100%		683,626
Remainder/Composite Plastic	2.0%	1.3%	13,584	Sampled Streams	36		

# Table 157. Detailed Composition – Curbside Organics: Services – Professional,Technical, & Financial

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	0.7%		1,301	Other Organic	99.0%		173,063
Uncoated Corrugated Cardboard	0.0%	0.1%	57	Food	0.1%	0.3%	203
Paper Bags	0.0%	0.0%	30	Leaves and Grass	98.8%	2.6%	172,743
Newspaper	0.1%	0.1%	107	Prunings and Trimmings	0.0%	0.0%	0
White Ledger Paper	0.0%	0.1%	42	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	0.2%	0.5%	413	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.0%	0.0%	0	Textiles	0.1%	0.1%	117
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	0.4%	0.8%	635	Remainder/Composite Organic	0.0%	0.0%	0
Other Miscellaneous Paper - Other	0.0%	0.0%	11				
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0.0%	0	Inerts and Other	0.0%		0
Remainder/Composite Paper - Compostable	0.0%	0.0%	6	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.0%	0.0%	0	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	0.0%		32	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	0.0%	0.0%	32	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Clean Pallets & Crates	0.0%	0.0%	Ō
Green Glass Bottles and Containers - CRV	0.0%	0.0%	Ō	Other Wood Waste	0.0%	0.0%	Ō
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Ō	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	Ō	Rock, Soil and Fines	0.0%	0.0%	Ō
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Õ	Remainder/Composite Inerts and Other	0.0%	0.0%	Ő
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	ŏ	Remainder/Composite mente and Other	0.070	0.070	Ŭ
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	õ	Household Hazardous Waste	0.0%		14
Flat Glass	0.0%	0.0%	ŏ	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	ŏ	Vehicle and Equipment Fluids	0.0%	0.0%	ŏ
	0.070	0.070	Ŭ	Used Oil	0.0%	0.0%	õ
Metal	0.0%		23	Batteries	0.0%	0.0%	14
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	20	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.0%	0.0%	ŏ	Lamps - Fluorescent and LED	0.0%	0.0%	õ
Major Appliances	0.0%	0.0%	ŏ	Remainder/Composite Household Hazardous		0.0%	ŏ
Used Oil Filters	0.0%	0.0%	õ		0.070	0.070	Ŭ
Other Ferrous	0.0%	0.0%	ŏ	Special Waste	0.0%		0
Aluminum Cans - CRV	0.0%	0.0%	23	Ash	0.0%	0.0%	Ő
Aluminum Cans - Non-CRV	0.0%	0.0%	20	Treated Medical Waste	0.0%	0.0%	Ő
Other Non-Ferrous	0.0%	0.0%	ŏ	Bulky Items	0.0%	0.0%	Ő
Remainder/Composite Metal	0.0%	0.0%	Ő	Tires	0.0%	0.0%	Ő
Remainder/oomposite metal	0.070	0.070	0	Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		13		0.070	0.070	Ŭ
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	0	Mixed Residue	0.070	0.070	v
Other Small Consumer Electronics	0.0%	0.0%	13				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	õ				
Video Display Devideo Carlei	0.070	0.070	0				
Plastic	0.2%		397				
PETE Containers - CRV	0.1%	0.1%	102				
PETE Containers - Non-CRV	0.0%	0.1%	45				
HDPE Containers - CRV	0.0%	0.0%	40				
HDPE Containers - Non-CRV	0.0%	0.0%	2				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	0.0%	0.0%	84				
Plastic Trash Bags	0.0%	0.1%	64 50				
Plastic Trash Bags Plastic Grocery and Other Merchandise Bags	0.0%	0.1%	0				
Non-Bag Commercial and Industrial Packaging Film	0.0%	0.0%	0				
	0.0%	0.0%	0				
Film Products			3				
Other Film - Flexible Plastic Pouches	0.0%	0.0%					
Other Film - Other	0.0%	0.1%	50 0				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0.0%		Totala	100%		174 949
Durable Plastic Items - Other	0.0%	0.1%	57 2	Totals			174,842
Remainder/Composite Plastic Confidence intervals calculated at the 90% confidence level. Percent	0.0%	0.0%		Sampled Streams	3		

### Table 158. Detailed Composition – Other Diversion: Services – Professional, Technical, & Financial

	Estimated	Estimated		Estimated	Estimated
Material	Percent	Tons	Material	Percent	Tons
Paper	40.9%	37,407	Other Organic	8.2%	7,527
Uncoated Corrugated Cardboard	17.7%	16,167	Food	5.1%	4,674
Paper Bags	0.1%	90	Leaves and Grass	3.1%	2,853
Newspaper	0.4%	382	Prunings and Trimmings	0.0%	0
White Ledger Paper	4.4%	3,983	Branches and Stumps	0.0%	0
Other Office Paper	8.0%	7,353	Manures	0.0%	0
Magazines and Catalogs	0.7%	625	Textiles	0.0%	0
Phone Books and Directories	0.0%	0	Carpet	0.0%	0
Other Miscellaneous Paper - Compostable	0.0%	1	Remainder/Composite Organic	0.0%	0
Other Miscellaneous Paper - Other	9.6%	8,734	,		
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0	Inerts and Other	16.4%	14,990
Remainder/Composite Paper - Compostable	0.0%	0	Concrete	0.0%	0
Remainder/Composite Paper - Other	0.1%	72	Asphalt Paving	0.0%	0
			Asphalt Roofing	0.0%	0
Glass	1.1%	1,022	Clean Dimensional Lumber	0.4%	329
Clear Glass Bottles and Containers - CRV	0.2%	211	Clean Engineered Wood	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.2%	193	Clean Pallets & Crates	14.3%	13,110
Green Glass Bottles and Containers - CRV	0.2%	225	Other Wood Waste	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.0%	13	Gypsum Board	0.7%	642
Brown Glass Bottles and Containers - CRV	0.4%	373	Rock, Soil and Fines	1.0%	908
Brown Glass Bottles and Containers - Non-CRV	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0	·		
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0	Household Hazardous Waste	1.8%	1,605
Flat Glass	0.0%	0	Paint	0.0%	0
Remainder/Composite Glass	0.0%	7	Vehicle and Equipment Fluids	0.0%	0
			Used Oil	0.0%	0
Metal	28.0%	25,586	Batteries	1.7%	1,570
Tin/Steel Cans - CRV Bimetal Containers	0.0%	5	Mercury-Containing Items - Not Lamps	0.0%	0
Tin/Steel Cans - Other	0.0%	13	Lamps - Fluorescent and LED	0.0%	35
Major Appliances	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0
Used Oil Filters	0.0%	0			
Other Ferrous	20.0%	18,258	Special Waste	0.4%	371
Aluminum Cans - CRV	0.5%	459	Ash	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0	Treated Medical Waste	0.0%	0
Other Non-Ferrous	1.8%	1,657	Bulky Items	0.4%	371
Remainder/Composite Metal	5.7%	5,193	Tires	0.0%	0
			Remainder/Composite Special Waste	0.0%	0
Electronics	1.4%	1,245			
Brown Goods	0.0%	0	Mixed Residue	0.0%	0
Computer-related Electronics	1.3%	1,199			
Other Small Consumer Electronics	0.0%	6			
Video Display Devices - CRT	0.0%	0			
Video Display Devices - Other	0.0%	40			
Plastic	1.8%	1,649			
PETE Containers - CRV	1.2%	1,104			
PETE Containers - Non-CRV	0.1%	121			
HDPE Containers - CRV	0.4%	354			
HDPE Containers - Non-CRV	0.1%	58			
Miscellaneous Plastic Containers - CRV	0.0%	0			
Miscellaneous Plastic Containers - Non-CRV	0.0%	11			
Plastic Trash Bags	0.0%	0			
Plastic Grocery and Other Merchandise Bags	0.0%	0			
Non-Bag Commercial and Industrial Packaging Film	0.0%	0			
Film Products	0.0%	0			
Other Film - Flexible Plastic Pouches	0.0%	0			
Other Film - Other	0.0%	0			
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0	<b>T</b> : ( )	4.0.00	<b>.</b>
Durable Plastic Items - Other	0.0%	0	Totals	100%	91,402
Remainder/Composite Plastic	0.0%	0	Sampled Streams	63	

#### Table 159. Detailed Composition – Disposed: Services – Repair & Personal

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	30.2%		84,886	Other Organic	21.5%		60,389
Uncoated Corrugated Cardboard	5.3%	1.9%	15,017	Food	7.4%	2.6%	20,927
Paper Bags	0.3%	0.1%	889	Leaves and Grass	3.4%	2.2%	9,554
Newspaper	2.6%	1.5%	7,218	Prunings and Trimmings	0.6%	0.6%	1,705
White Ledger Paper	1.3%	0.5%	3,776	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	1.5%	0.7%	4,294	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.6%	0.3%	1,601	Textiles	4.0%	1.8%	11.271
Phone Books and Directories	0.0%	0.0%	31	Carpet	0.8%	0.8%	2,272
Other Miscellaneous Paper - Compostable	0.2%	0.1%	460	Remainder/Composite Organic	5.2%	1.9%	14,659
Other Miscellaneous Paper - Other	3.9%	1.4%	11,048				
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.2%	0.2%	665	Inerts and Other	16.0%		45,147
Remainder/Composite Paper - Compostable	8.7%	2.1%	24,506	Concrete	0.2%	0.3%	511
Remainder/Composite Paper - Other	5.5%	1.7%	15,381	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	2.3%	3.8%	6,552
Glass	2.7%		7,588	Clean Dimensional Lumber	0.5%	0.4%	1,481
Clear Glass Bottles and Containers - CRV	0.4%	0.1%	986	Clean Engineered Wood	0.7%	0.7%	2,028
Clear Glass Bottles and Containers - Non-CRV	0.3%	0.2%	770	Clean Pallets & Crates	1.4%	1.4%	3,947
Green Glass Bottles and Containers - CRV	0.1%	0.1%	297	Other Wood Waste	4.9%	4.9%	13,928
Green Glass Bottles and Containers - Non-CRV	0.5%	0.7%	1,266	Gypsum Board	1.5%	1.8%	4,319
Brown Glass Bottles and Containers - CRV	0.1%	0.1%	231	Rock, Soil and Fines	2.0%	1.6%	5,719
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	31	Remainder/Composite Inerts and Other	2.4%	1.6%	6,663
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0	·			
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	2.5%		7,008
Flat Glass	0.7%	0.9%	2,099	Paint	1.4%	1.5%	3,899
Remainder/Composite Glass	0.7%	0.7%	1,910	Vehicle and Equipment Fluids	1.1%	1.8%	3,064
•				Used Oil	0.0%	0.0%	<sup>′</sup> 18
Metal	8.5%		24,054	Batteries	0.0%	0.0%	13
Tin/Steel Cans - CRV Bimetal Containers	0.1%	0.1%	322	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.5%	0.3%	1,466	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	14
Used Oil Filters	0.2%	0.2%	495	·			
Other Ferrous	3.3%	2.3%	9,160	Special Waste	2.2%		6,061
Aluminum Cans - CRV	0.1%	0.1%	381	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	33	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	2.5%	1.7%	6,897	Bulky Items	1.2%	1.8%	3,455
Remainder/Composite Metal	1.9%	0.8%	5,301	Tires	0.9%	1.1%	2,605
•				Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.7%		1,916				
Brown Goods	0.0%	0.1%	139	Mixed Residue	0.4%	0.5%	1,212
Computer-related Electronics	0.0%	0.1%	117				
Other Small Consumer Electronics	0.0%	0.0%	64				
Video Display Devices - CRT	0.4%	0.7%	1,191				
Video Display Devices - Other	0.1%	0.2%	405				
Plastic	15.3%		43,111				
PETE Containers - CRV	0.4%	0.2%	1.180				
	0.4%	0.2%	709				
PETE Containers - Non-CRV	0.3%	0.3%					
HDPE Containers - CRV	0.2%		454 4,972				
HDPE Containers - Non-CRV	0.0%	1.3% 0.0%	4,972				
Miscellaneous Plastic Containers - CRV			635				
Miscellaneous Plastic Containers - Non-CRV	0.2% 1.1%	0.1%					
Plastic Trash Bags		0.3% 0.1%	3,031 758				
Plastic Grocery and Other Merchandise Bags	0.3%						
Non-Bag Commercial and Industrial Packaging Film	1.2%	0.7%	3,343				
Film Products	0.0%	0.0%	0				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	120				
Other Film - Other	1.9%	1.0%	5,453				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.7%	0.7%	1,921				
Durable Plastic Items - Other	2.7%	1.6%	7,617	Totals	100%		281,371
Remainder/Composite Plastic	4.6%	1.5%	12,870	Sampled Streams	52		

### Table 160. Detailed Composition – Curbside Recycle: Services – Repair & Personal

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	77.2%		33,684	Other Organic	0.9%		414
Uncoated Corrugated Cardboard	65.1%	12.8%	28,403	Food	0.2%	0.3%	91
Paper Bags	0.8%	0.9%	330	Leaves and Grass	0.0%	0.0%	0
Newspaper	1.4%	1.1%	621	Prunings and Trimmings	0.0%	0.0%	0
White Ledger Paper	2.2%	2.3%	961	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	0.2%	0.2%	74	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.6%	0.9%	278	Textiles	0.2%	0.2%	83
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	2.3%	2.7%	1,009	Remainder/Composite Organic	0.6%	0.8%	240
Other Miscellaneous Paper - Other	2.2%	1.8%	955				
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0.0%	0	Inerts and Other	1.3%		563
Remainder/Composite Paper - Compostable	0.6%	0.7%	278	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	1.8%	1.5%	776	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	5.7%		2,471	Clean Dimensional Lumber	0.4%	0.7%	173
Clear Glass Bottles and Containers - CRV	0.5%	0.7%	227	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.7%	1.0%	307	Clean Pallets & Crates	0.0%	0.0%	0
Green Glass Bottles and Containers - CRV	1.4%	1.9%	599	Other Wood Waste	0.0%	0.0%	0
Green Glass Bottles and Containers - Non-CRV	2.0%	2.8%	870	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	0.3%	0.4%	149	Rock, Soil and Fines	0.0%	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.7%	1.0%	318	Remainder/Composite Inerts and Other	0.9%	1.3%	390
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0	·			
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.4%		188
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	0	Vehicle and Equipment Fluids	0.0%	0.0%	0
				Used Oil	0.0%	0.0%	0
Metal	3.9%		1,708	Batteries	0.4%	0.6%	188
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	0	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.0%	0.0%	0	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0	·			
Other Ferrous	3.8%	5.5%	1,645	Special Waste	0.0%		0
Aluminum Cans - CRV	0.1%	0.2%	49	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	0	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	0	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.0%	0.1%	14	Tires	0.0%	0.0%	0
				Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		0				
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	0				
Other Small Consumer Electronics	0.0%	0.0%	0				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Plastic	10.6%		4,605				
PETE Containers - CRV	0.0%	0.0%	15				
PETE Containers - Non-CRV	0.1%	0.1%	23				
HDPE Containers - CRV	0.0%	0.0%	0				
HDPE Containers - Non-CRV	2.9%	4.8%	1,279				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	0.3%	0.3%	115				
Plastic Trash Bags	0.1%	0.1%	45				
Plastic Grocery and Other Merchandise Bags	0.4%	0.4%	155				
Non-Bag Commercial and Industrial Packaging Film	0.3%	0.4%	144				
Film Products	0.1%	0.1%	41				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	0				
Other Film - Other	0.0%	0.1%	20				
Durable Plastic Items - #2 and #5 Bulky Rigids	4.8%	8.6%	2,078				
Durable Plastic Items - Other	0.8%	1.5%	335	Totals	100%		43,633
Remainder/Composite Plastic	0.8%	0.7%	353	Sampled Streams	13		

### Table 161. Detailed Composition – Curbside Organics: Services – Repair & Personal

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	5.0%		3,626	Other Organic	95.0%		68,901
Uncoated Corrugated Cardboard	0.0%	0.0%	0	Food	95.0%	0.0%	68,901
Paper Bags	0.0%	0.0%	0	Leaves and Grass	0.0%	0.0%	0
Newspaper	0.0%	0.0%	Ō	Prunings and Trimmings	0.0%	0.0%	Ō
White Ledger Paper	0.0%	0.0%	0	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	0.0%	0.0%	0	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.0%	0.0%	0	Textiles	0.0%	0.0%	0
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	5.0%	0.0%	3,626	Remainder/Composite Organic	0.0%	0.0%	0
Other Miscellaneous Paper - Other	0.0%	0.0%	0	1			
Remainder/Composite Paper - Rigid Food & Beverage Cartons		0.0%	0	Inerts and Other	0.0%		0
Remainder/Composite Paper - Compostable	0.0%	0.0%	0	Concrete	0.0%	0.0%	Ō
Remainder/Composite Paper - Other	0.0%	0.0%	0	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	0.0%		0	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	0.0%	0.0%	Ō	Clean Engineered Wood	0.0%	0.0%	Ō
Clear Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Ő	Clean Pallets & Crates	0.0%	0.0%	Õ
Green Glass Bottles and Containers - CRV	0.0%	0.0%	õ	Other Wood Waste	0.0%	0.0%	õ
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Ő	Gypsum Board	0.0%	0.0%	õ
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	ŏ	Rock, Soil and Fines	0.0%	0.0%	ŏ
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0.0%	Ő
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0	Remainder/Composite ments and Other	0.070	0.070	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	0	Vehicle and Equipment Fluids	0.0%	0.0%	0
Remainder/Composite Glass	0.076	0.0 /0	0	Used Oil	0.0%	0.0%	0
Matal	0.0%		0		0.0%	0.0%	0
Metal		0.00/	0	Batteries			
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%		Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.0%	0.0%	0	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0				-
Other Ferrous	0.0%	0.0%	0	Special Waste	0.0%		0
Aluminum Cans - CRV	0.0%	0.0%	0	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	0	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	0	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.0%	0.0%	0	Tires	0.0%	0.0%	0
				Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		0				
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	0				
Other Small Consumer Electronics	0.0%	0.0%	0				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Plantia	0.0%		0				
Plastic	0.0%	0.00/	0				
PETE Containers - CRV		0.0%	-				
PETE Containers - Non-CRV	0.0%	0.0%	0				
HDPE Containers - CRV	0.0%	0.0%					
HDPE Containers - Non-CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	0.0%	0.0%	0				
Plastic Trash Bags	0.0%	0.0%	0				
Plastic Grocery and Other Merchandise Bags	0.0%	0.0%	0				
Non-Bag Commercial and Industrial Packaging Film	0.0%	0.0%	0				
Film Products	0.0%	0.0%	0				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	0				
Other Film - Other	0.0%	0.0%	0				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0.0%	0				
Durable Plastic Items - Other	0.0%	0.0%	0	Totals	100%		72,528
	0.0%	0.0%	0	Sampled Streams	1		

#### Table 162. Detailed Composition – Other Diversion: Services – Repair & Personal

	Estimated	Estimated		Estimated	Estimated
Material	Percent	Tons	Material	Percent	Tons
Paper	6.1%	3,334	Other Organic	1.4%	792
Uncoated Corrugated Cardboard	6.1%	3.319	Food	0.0%	0
Paper Bags	0.0%	0	Leaves and Grass	0.0%	0
Newspaper	0.0%	0	Prunings and Trimmings	0.0%	0
White Ledger Paper	0.0%	0	Branches and Stumps	0.0%	0
Other Office Paper	0.0%	1	Manures	0.0%	0
Magazines and Catalogs	0.0%	0	Textiles	1.4%	790
Phone Books and Directories	0.0%	0	Carpet	0.0%	0
Other Miscellaneous Paper - Compostable	0.0%	0	Remainder/Composite Organic	0.0%	2
Other Miscellaneous Paper - Other	0.0%	0			
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	13	Inerts and Other	11.7%	6,400
Remainder/Composite Paper - Compostable	0.0%	0	Concrete	0.0%	0
Remainder/Composite Paper - Other	0.0%	0	Asphalt Paving	0.0%	0
			Asphalt Roofing	0.0%	0
Glass	0.1%	68	Clean Dimensional Lumber	0.0%	0
Clear Glass Bottles and Containers - CRV	0.1%	67	Clean Engineered Wood	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.0%	1	Clean Pallets & Crates	11.7%	6,382
Green Glass Bottles and Containers - CRV	0.0%	0	Other Wood Waste	0.0%	19
Green Glass Bottles and Containers - Non-CRV	0.0%	Ō	Gypsum Board	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	Ō	Rock, Soil and Fines	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%	Õ	Remainder/Composite Inerts and Other	0.0%	Ō
Other Colored Glass Bottles and Containers - CRV	0.0%	Ō	· · · · · · · · · · · · · · · · · · ·		-
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	Ō	Household Hazardous Waste	0.0%	0
Flat Glass	0.0%	Ő	Paint	0.0%	0
Remainder/Composite Glass	0.0%	õ	Vehicle and Equipment Fluids	0.0%	õ
	01070	0	Used Oil	0.0%	Õ
Metal	78.6%	43,009	Batteries	0.0%	Õ
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0	Mercury-Containing Items - Not Lamps	0.0%	Õ
Tin/Steel Cans - Other	0.0%	õ	Lamps - Fluorescent and LED	0.0%	Õ
Major Appliances	0.0%	Ő	Remainder/Composite Household Hazardous	0.0%	Ő
Used Oil Filters	0.0%	õ		01070	Ũ
Other Ferrous	43.6%	23,840	Special Waste	0.0%	0
Aluminum Cans - CRV	0.1%	51	Ash	0.0%	Õ
Aluminum Cans - Non-CRV	0.0%	0	Treated Medical Waste	0.0%	Ő
Other Non-Ferrous	31.1%	17,017	Bulky Items	0.0%	Õ
Remainder/Composite Metal	3.8%	2,102	Tires	0.0%	Ő
Remainder/ooniposite metal	0.070	2,102	Remainder/Composite Special Waste	0.0%	0
Electronics	0.2%	97	Remainder/Composite Opeolar Waste	0.070	0
Brown Goods	0.0%	0	Mixed Residue	0.0%	0
Computer-related Electronics	0.1%	57		0.070	v
Other Small Consumer Electronics	0.0%	0			
Video Display Devices - CRT	0.0%	Ő			
Video Display Devices - Other	0.1%	40			
Plastic	1.8%	1,005			
PETE Containers - CRV	0.8%	419			
PETE Containers - Non-CRV	0.0%	4			
HDPE Containers - CRV	0.0%	0			
HDPE Containers - Non-CRV	0.0%	12			
Miscellaneous Plastic Containers - CRV	0.0%	0			
Miscellaneous Plastic Containers - Non-CRV	0.0%	0			
Plastic Trash Bags	0.0%	0			
Plastic Grocery and Other Merchandise Bags	0.0%	0			
Non-Bag Commercial and Industrial Packaging Film	0.0%	0			
Film Products	0.0%	0			
Other Film - Flexible Plastic Pouches	0.0%	0			
Other Film - Other	0.0%	0			
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0			
Durable Plastic Items - Other	0.0%	0	Totals	100%	54,706
Remainder/Composite Plastic	1.0%	569	Sampled Streams	36	

#### Table 163. Detailed Composition – Disposed: Not Elsewhere Classified

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	27.6%		148,662	Other Organic	38.3%		206.450
Uncoated Corrugated Cardboard	4.5%	1.9%	24,092	Food	16.0%	4.5%	86,197
Paper Bags	0.3%	0.1%	1,659	Leaves and Grass	5.7%	3.5%	30,678
Newspaper	1.2%	0.4%	6,355	Prunings and Trimmings	5.0%	3.3%	26,986
White Ledger Paper	1.9%	0.7%	10,098	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	1.8%	1.1%	9,942	Manures	0.4%	0.6%	2,117
Magazines and Catalogs	1.9%	1.0%	10,499	Textiles	2.8%	1.0%	15.017
Phone Books and Directories	0.1%	0.1%	325	Carpet	0.3%	0.4%	1,415
Other Miscellaneous Paper - Compostable	0.2%	0.2%	1,164	Remainder/Composite Organic	8.2%	3.7%	44,040
Other Miscellaneous Paper - Other	3.3%	1.5%	17,840	1			,
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.2%	0.2%	1,249	Inerts and Other	11.5%		62,169
Remainder/Composite Paper - Compostable	9.0%	1.5%	48,398	Concrete	1.1%	1.0%	5,942
Remainder/Composite Paper - Other	3.2%	1.0%	17,043	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	147
Glass	4.8%		26,005	Clean Dimensional Lumber	0.7%	0.5%	3,569
Clear Glass Bottles and Containers - CRV	0.3%	0.1%	1,551	Clean Engineered Wood	1.1%	1.2%	6,070
Clear Glass Bottles and Containers - Non-CRV	0.2%	0.1%	1,144	Clean Pallets & Crates	4.2%	2.6%	22,650
Green Glass Bottles and Containers - CRV	0.1%	0.0%	280	Other Wood Waste	1.5%	0.9%	7,936
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	172	Gypsum Board	0.0%	0.0%	46
Brown Glass Bottles and Containers - CRV	0.3%	0.4%	1,704	Rock, Soil and Fines	2.2%	2.2%	12,012
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	112	Remainder/Composite Inerts and Other	0.7%	0.7%	3,796
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0	·			
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		66
Flat Glass	2.2%	2.7%	11,778	Paint	0.0%	0.0%	0
Remainder/Composite Glass	1.7%	1.7%	9,265	Vehicle and Equipment Fluids	0.0%	0.0%	0
•				Used Oil	0.0%	0.0%	25
Metal	2.9%		15,689	Batteries	0.0%	0.0%	37
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	139	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.1%	0.1%	778	Lamps - Fluorescent and LED	0.0%	0.0%	4
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	57	·			
Other Ferrous	1.2%	0.6%	6,287	Special Waste	1.4%		7,339
Aluminum Cans - CRV	0.1%	0.0%	696	Ash	0.0%	0.0%	95
Aluminum Cans - Non-CRV	0.1%	0.1%	271	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.6%	0.4%	3,201	Bulky Items	1.3%	1.4%	7,157
Remainder/Composite Metal	0.8%	0.4%	4,260	Tires	0.0%	0.0%	88
				Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.2%		1,241				
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.8%	0.6%	4,166
Computer-related Electronics	0.0%	0.0%	0				
Other Small Consumer Electronics	0.0%	0.0%	0				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.2%	0.3%	1,241				
<b>D</b> I	40.40/		07 074				
Plastic	12.4%	0.40/	67,071				
PETE Containers - CRV	0.2%	0.1%	1,330				
PETE Containers - Non-CRV	0.2%	0.1%	997				
HDPE Containers - CRV	0.0%	0.0%	37				
HDPE Containers - Non-CRV	0.3%	0.1%	1,688				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	174				
Miscellaneous Plastic Containers - Non-CRV	0.2%	0.0%	847				
Plastic Trash Bags	2.0%	0.4%	10,756				
Plastic Grocery and Other Merchandise Bags	0.2%	0.1%	1,291				
Non-Bag Commercial and Industrial Packaging Film	1.8%	1.6%	9,482				
Film Products	0.0%	0.0%	0				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	184				
Other Film - Other	1.7%	0.5%	9,147				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.1%	0.1%	630				
Durable Plastic Items - Other	1.8%	1.1%	9,740	Totals	100%		538,858
Remainder/Composite Plastic	3.9%	0.8%	20,768	Sampled Streams	53		

#### Table 164. Detailed Composition – Curbside Recycle: Not Elsewhere Classified

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	74.3%		39,479	Other Organic	5.9%		3,136
Uncoated Corrugated Cardboard	62.5%	12.3%	33,188	Food	5.2%	6.0%	2,758
Paper Bags	0.4%	0.2%	212	Leaves and Grass	0.0%	0.0%	_,0
Newspaper	0.7%	0.7%	375	Prunings and Trimmings	0.0%	0.0%	Ō
White Ledger Paper	2.0%	2.3%	1,071	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	4.4%	4.8%	2,345	Manures	0.0%	0.0%	0
Magazines and Catalogs	1.2%	1.1%	621	Textiles	0.2%	0.2%	80
Phone Books and Directories	0.1%	0.3%	79	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	0.7%	0.6%	383	Remainder/Composite Organic	0.6%	0.8%	299
Other Miscellaneous Paper - Other	1.3%	1.1%	693	1			
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0.0%	5	Inerts and Other	0.0%		0
Remainder/Composite Paper - Compostable	0.2%	0.2%	99	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.8%	0.8%	409	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	10.9%		5,771	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	2.4%	2.7%	1,291	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.9%	1.1%	504	Clean Pallets & Crates	0.0%	0.0%	0
Green Glass Bottles and Containers - CRV	1.3%	1.4%	706	Other Wood Waste	0.0%	0.0%	0
Green Glass Bottles and Containers - Non-CRV	2.6%	3.3%	1,381	Gypsum Board	0.0%	0.0%	õ
Brown Glass Bottles and Containers - CRV	3.6%	4.6%	1,889	Rock, Soil and Fines	0.0%	0.0%	Õ
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0.0%	õ
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	ŏ		01070	0.070	•
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Ő	Household Hazardous Waste	0.8%		404
Flat Glass	0.0%	0.0%	ŏ	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	ŏ	Vehicle and Equipment Fluids	0.0%	0.0%	ŏ
Remainder/Composite Class	0.070	0.070	0	Used Oil	0.8%	1.5%	404
Metal	1.1%		563	Batteries	0.0%	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.1%	0.1%	51	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.1%	0.3%	187	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.4%	0.0%	0	Remainder/Composite Household Hazardous		0.0%	0
Used Oil Filters	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.078	0.076	0
Other Ferrous	0.0%	0.0%	51	Special Waste	0.0%		0
Aluminum Cans - CRV	0.1%	0.1%	258	Ash	0.0%	0.0%	0
Aluminum Cans - CRV Aluminum Cans - Non-CRV	0.3%	0.9%	238	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	16	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.0%	0.0%	0	Tires	0.0%	0.0%	0
Remainder/Composite Metai	0.0%	0.0%	0	Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		0	Remainder/Composite Special Waste	0.070	0.070	0
Brown Goods	0.0%	0.0%	Õ	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	Ő		0.070	0.070	v
Other Small Consumer Electronics	0.0%	0.0%	Ő				
Video Display Devices - CRT	0.0%	0.0%	ŏ				
Video Display Devices - Other	0.0%	0.0%	Ő				
	0.070	0.070	Ū				
Plastic	7.1%		3,756				
PETE Containers - CRV	0.6%	0.7%	331				
PETE Containers - Non-CRV	0.5%	0.6%	243				
HDPE Containers - CRV	0.1%	0.1%	31				
HDPE Containers - Non-CRV	0.5%	0.4%	289				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	7				
Miscellaneous Plastic Containers - Non-CRV	0.5%	0.6%	285				
Plastic Trash Bags	0.5%	0.5%	276				
Plastic Grocery and Other Merchandise Bags	0.1%	0.1%	28				
Non-Bag Commercial and Industrial Packaging Film	0.0%	0.0%					
Film Products	1.8%	3.2%	942				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	6				
Other Film - Other	1.5%	0.9%	816				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.2%	0.2%	84				
Durable Plastic Items - Other	0.2%	0.0%	1	Totals	100%		53,109
Remainder/Composite Plastic	0.8%	0.8%	415	Sampled Streams	24		33,103
Confidence intervals calculated at the 90% confidence level. Percent					-1		

#### Table 165. Detailed Composition – Curbside Organics: Not Elsewhere Classified

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	2.1%		196	Other Organic	97.9%		9,234
Uncoated Corrugated Cardboard	0.0%	0.0%	0	Food	1.2%	0.0%	109
Paper Bags	0.0%	0.0%	4	Leaves and Grass	48.4%	0.0%	4,563
Newspaper	0.0%	0.0%	0	Prunings and Trimmings	48.4%	0.0%	4,563
White Ledger Paper	0.0%	0.0%	0	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	0.0%	0.0%	2	Manures	0.0%	0.0%	0
Magazines and Catalogs	0.0%	0.0%	0	Textiles	0.0%	0.0%	0
Phone Books and Directories	0.0%	0.0%	0	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	1.9%	0.0%	180	Remainder/Composite Organic	0.0%	0.0%	0
Other Miscellaneous Paper - Other	0.1%	0.0%	11				
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0.0%	0	Inerts and Other	0.0%		0
Remainder/Composite Paper - Compostable	0.0%	0.0%	0	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.0%	0.0%	0	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	0.0%		0	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	0.0%	0.0%	0	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Clean Pallets & Crates	0.0%	0.0%	0
Green Glass Bottles and Containers - CRV	0.0%	0.0%	0	Other Wood Waste	0.0%	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	0	Rock, Soil and Fines	0.0%	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0				
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	0	Vehicle and Equipment Fluids	0.0%	0.0%	0
				Used Oil	0.0%	0.0%	0
Metal	0.0%		0	Batteries	0.0%	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	0	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.0%	0.0%	0	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0				
Other Ferrous	0.0%	0.0%	0	Special Waste	0.0%		0
Aluminum Cans - CRV	0.0%	0.0%	0	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	0	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	0	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.0%	0.0%	0	Tires	0.0%	0.0%	0
				Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		0				
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	0				
Other Small Consumer Electronics	0.0%	0.0%	0				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Plaatia	0.00/		•				
Plastic	0.0%	0.00/	0				
PETE Containers - CRV	0.0%	0.0%	0				
PETE Containers - Non-CRV	0.0%	0.0%	0				
HDPE Containers - CRV	0.0%	0.0%	0				
HDPE Containers - Non-CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	0.0%	0.0%	0				
Plastic Trash Bags	0.0%	0.0%	0				
Plastic Grocery and Other Merchandise Bags	0.0%	0.0%	0				
Non-Bag Commercial and Industrial Packaging Film	0.0%	0.0%	0				
Film Products	0.0%	0.0%	0				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	0				
Other Film - Other	0.0%	0.0%	0				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0.0%	0				
Durable Plastic Items - Other	0.0%	0.0%	0	Totals	100%		9,430
Remainder/Composite Plastic	0.0%	0.0%	0	Sampled Streams	2		

#### Table 166. Detailed Composition – Other Diversion: Not Elsewhere Classified

	Estimated	Estimated		Estimated	Estimated
Material	Percent	Tons	Material	Percent	Tons
Paper	8.2%	56,148	Other Organic	75.7%	520.967
Uncoated Corrugated Cardboard	8.1%	55.416	Food	31.1%	214.139
Paper Bags	0.0%	0	Leaves and Grass	15.9%	109,124
Newspaper	0.0%	Õ	Prunings and Trimmings	28.7%	197,704
White Ledger Paper	0.0%	0	Branches and Stumps	0.0%	0
Other Office Paper	0.0%	3	Manures	0.0%	0
Magazines and Catalogs	0.0%	0	Textiles	0.0%	0
Phone Books and Directories	0.0%	Õ	Carpet	0.0%	Ō
Other Miscellaneous Paper - Compostable	0.0%	0	Remainder/Composite Organic	0.0%	Ō
Other Miscellaneous Paper - Other	0.1%	729	1		
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.0%	0	Inerts and Other	6.1%	42,166
Remainder/Composite Paper - Compostable	0.0%	0	Concrete	0.0%	, 0
Remainder/Composite Paper - Other	0.0%	0	Asphalt Paving	0.0%	0
			Asphalt Roofing	0.0%	0
Glass	0.0%	0	Clean Dimensional Lumber	0.0%	0
Clear Glass Bottles and Containers - CRV	0.0%	0	Clean Engineered Wood	4.2%	28,927
Clear Glass Bottles and Containers - Non-CRV	0.0%	0	Clean Pallets & Crates	0.8%	5,235
Green Glass Bottles and Containers - CRV	0.0%	0	Other Wood Waste	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.0%	0	Gypsum Board	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	0	Rock, Soil and Fines	0.6%	4,118
Brown Glass Bottles and Containers - Non-CRV	0.0%	0	Remainder/Composite Inerts and Other	0.6%	3,886
Other Colored Glass Bottles and Containers - CRV	0.0%	0	·		
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0	Household Hazardous Waste	0.0%	106
Flat Glass	0.0%	0	Paint	0.0%	0
Remainder/Composite Glass	0.0%	0	Vehicle and Equipment Fluids	0.0%	0
			Used Oil	0.0%	0
Metal	9.7%	66,765	Batteries	0.0%	106
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0	Mercury-Containing Items - Not Lamps	0.0%	0
Tin/Steel Cans - Other	0.0%	0	Lamps - Fluorescent and LED	0.0%	0
Major Appliances	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0
Used Oil Filters	0.0%	0			
Other Ferrous	8.1%	56,028	Special Waste	0.0%	0
Aluminum Cans - CRV	0.0%	296	Ash	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0	Treated Medical Waste	0.0%	0
Other Non-Ferrous	1.5%	10,406	Bulky Items	0.0%	0
Remainder/Composite Metal	0.0%	34	Tires	0.0%	0
			Remainder/Composite Special Waste	0.0%	0
Electronics	0.2%	1,277			
Brown Goods	0.0%	5	Mixed Residue	0.0%	0
Computer-related Electronics	0.0%	246			
Other Small Consumer Electronics	0.0%	111			
Video Display Devices - CRT	0.1%	916			
Video Display Devices - Other	0.0%	0			
Direction	0.00/	202			
Plastic	0.0%	323			
PETE Containers - CRV	0.0%	314			
PETE Containers - Non-CRV	0.0%	0			
HDPE Containers - CRV	0.0%	10			
HDPE Containers - Non-CRV	0.0%	0			
Miscellaneous Plastic Containers - CRV	0.0%	0			
Miscellaneous Plastic Containers - Non-CRV	0.0%	0			
Plastic Trash Bags	0.0%	0			
Plastic Grocery and Other Merchandise Bags	0.0%	-			
Non-Bag Commercial and Industrial Packaging Film	0.0%	0			
Film Products	0.0%	0			
Other Film - Flexible Plastic Pouches	0.0%	0			
Other Film - Other	0.0%	0			
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0	Tatala	4000/	007 750
Durable Plastic Items - Other	0.0%	0	Totals Sampled Streams	100%	687,752
Remainder/Composite Plastic	0.0%	0	Sampled Streams	49	

# Table 167. Detailed Composition – Disposed: Multi-Family

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	23.5%	Ŧ/-	593,459	Other Organic	44.1%	Ŧ/-	1,112,851
Uncoated Corrugated Cardboard	<b>23.3</b> % 3.6%	1.5%	90,061	Food	24.8%	3.3%	625,274
Paper Bags	0.5%	0.1%	13,314	Leaves and Grass	3.0%	2.0%	75.412
Newspaper	4.6%	3.3%	117,201	Prunings and Trimmings	0.8%	0.7%	19,613
White Ledger Paper	0.5%	0.3%	13,345	Branches and Stumps	0.0%	0.0%	10,010
Other Office Paper	0.6%	0.3%	14.862	Manures	0.0%	0.0%	0 0
Magazines and Catalogs	0.7%	0.3%	18,876	Textiles	7.4%	3.6%	188.044
Phone Books and Directories	0.0%	0.0%	773	Carpet	0.6%	0.6%	15,806
Other Miscellaneous Paper - Compostable	0.3%	0.2%	7,471	Remainder/Composite Organic	7.5%	2.0%	188,702
Other Miscellaneous Paper - Other	4.7%	1.0%	119,119	· · · · · · · · · · · · · · · · · · ·			,
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.3%	0.1%	8.004	Inerts and Other	6.1%		153,845
Remainder/Composite Paper - Compostable	6.8%	1.1%	170,875	Concrete	0.4%	0.5%	9,593
Remainder/Composite Paper - Other	0.8%	0.5%	19,559	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	3.0%		75,495	Clean Dimensional Lumber	0.5%	0.5%	13,147
Clear Glass Bottles and Containers - CRV	0.8%	0.3%	21,143	Clean Engineered Wood	0.1%	0.1%	3,328
Clear Glass Bottles and Containers - Non-CRV	0.8%	0.3%	20,302	Clean Pallets & Crates	2.0%	2.2%	50,259
Green Glass Bottles and Containers - CRV	0.1%	0.1%	1,894	Other Wood Waste	2.1%	1.9%	53,274
Green Glass Bottles and Containers - Non-CRV	0.1%	0.1%	1,862	Gypsum Board	0.4%	0.4%	10,465
Brown Glass Bottles and Containers - CRV	0.6%	0.4%	14,628	Rock, Soil and Fines	0.3%	0.3%	7,437
Brown Glass Bottles and Containers - Non-CRV	0.1%	0.1%	2,590	Remainder/Composite Inerts and Other	0.3%	0.2%	6,342
Other Colored Glass Bottles and Containers - CRV	0.1%	0.1%	1,474				
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	89	Household Hazardous Waste	0.1%		2,071
Flat Glass	0.1%	0.1%	1,464	Paint	0.0%	0.0%	10
Remainder/Composite Glass	0.4%	0.2%	10,049	Vehicle and Equipment Fluids	0.0%	0.0%	0
				Used Oil	0.0%	0.0%	0
Metal	3.5%		89,255	Batteries	0.0%	0.0%	911
Tin/Steel Cans - CRV Bimetal Containers	0.2%	0.3%	5,560	Mercury-Containing Items - Not Lamps	0.0%	0.0%	8
Tin/Steel Cans - Other	0.7%	0.2%	17,903	Lamps - Fluorescent and LED	0.0%	0.0%	56
Major Appliances	0.0%	0.0%	28	Remainder/Composite Household Hazardous	0.0%	0.0%	1,086
Used Oil Filters	0.0%	0.0%	0				
Other Ferrous	0.8%	0.7%	19,097	Special Waste	3.7%		92,535
Aluminum Cans - CRV	0.1%	0.0%	3,019	Ash	0.1%	0.1%	2,351
Aluminum Cans - Non-CRV	0.1%	0.1%	2,730	Treated Medical Waste	0.7%	1.2%	18,643
Other Non-Ferrous	0.8%	0.6%	19,404	Bulky Items	2.8%	2.9%	71,031
Remainder/Composite Metal	0.9%	0.3%	21,516	Tires	0.0%	0.0%	0
				Remainder/Composite Special Waste	0.0%	0.0%	511
Electronics	1.6%		39,631				
Brown Goods	0.5%	0.5%	11,446	Mixed Residue	3.4%	1.2%	87,009
Computer-related Electronics	0.2%	0.2%	5,091				
Other Small Consumer Electronics	0.3%	0.2%	6,605				
Video Display Devices - CRT	0.5%	0.6%	12,000				
Video Display Devices - Other	0.2%	0.2%	4,490				
Diratia	44.00/		070 000				
Plastic	<b>11.0%</b> 0.4%	0.1%	<b>278,032</b> 9,408				
PETE Containers - CRV							
PETE Containers - Non-CRV	0.6%	0.2%	13,956				
HDPE Containers - CRV	0.0%	0.0%	921				
HDPE Containers - Non-CRV	0.4%	0.1%	10,849				
Miscellaneous Plastic Containers - CRV	0.1%	0.1%	1,341				
Miscellaneous Plastic Containers - Non-CRV	0.6%	0.2%	14,772				
Plastic Trash Bags	1.1%	0.2%	28,449				
Plastic Grocery and Other Merchandise Bags	0.9%	0.2%	22,166				
Non-Bag Commercial and Industrial Packaging Film	0.2%	0.2%	4,259				
Film Products	0.0%	0.0%	40				
Other Film - Flexible Plastic Pouches	0.4%	0.5%	10,380				
Other Film - Other	1.7%	0.5%	43,868				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.2%	0.1%	4,237	Totala	100%		2 524 402
Durable Plastic Items - Other Remainder/Composite Plastic	1.1% 3.4%	0.5% 0.9%	28,424 84,962	Totals Sampled Streams	100%		2,524,183
Confidence intervals calculated at the 90% confidence level. Percent			,		JZ		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

# Table 168. Detailed Composition – Curbside Recycle: Multi-Family

	Estimated		Estimated		Estimated		Estimated
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	55.3%	••	247,356	Other Organic	11.4%	••	51,116
Uncoated Corrugated Cardboard	19.2%	6.1%	86,143	Food	7.0%	8.3%	31,201
Paper Bags	0.9%	0.6%	4.174	Leaves and Grass	0.0%	0.0%	0,201
Newspaper	19.2%		85,821	Prunings and Trimmings	0.0%	0.0%	Ő
White Ledger Paper	2.0%	2.0%	9,148	Branches and Stumps	0.0%	0.0%	Ō
Other Office Paper	2.8%	1.2%	12,396	Manures	0.0%	0.0%	0
Magazines and Catalogs	2.1%	1.2%	9,284	Textiles	2.1%	1.2%	9,440
Phone Books and Directories	0.4%	0.6%	1,636	Carpet	0.0%	0.0%	0
Other Miscellaneous Paper - Compostable	1.5%	0.8%	6,552	Remainder/Composite Organic	2.3%	2.4%	10,474
Other Miscellaneous Paper - Other	4.3%	1.0%	19,457				
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.5%	0.3%	2,310	Inerts and Other	1.1%		4,828
Remainder/Composite Paper - Compostable	0.4%	0.3%	1,902	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	1.9%	2.1%	8,535	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	11.3%		50,539	Clean Dimensional Lumber	1.0%	1.4%	4,596
Clear Glass Bottles and Containers - CRV	1.2%	0.6%	5,236	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	3.3%	1.7%	14,898	Clean Pallets & Crates	0.0%	0.0%	0
Green Glass Bottles and Containers - CRV	0.4%	0.3%	1,807	Other Wood Waste	0.0%	0.0%	0
Green Glass Bottles and Containers - Non-CRV	3.8%	1.9%	16,856	Gypsum Board	0.0%	0.0%	19
Brown Glass Bottles and Containers - CRV	2.4%	1.8%	10,589	Rock, Soil and Fines	0.0%	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.2%	0.1%	1,109	Remainder/Composite Inerts and Other	0.0%	0.1%	213
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0				
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	44	Household Hazardous Waste	0.0%		82
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	0	Vehicle and Equipment Fluids	0.0%	0.0%	0
				Used Oil	0.0%	0.0%	0
Metal	3.6%		16,197	Batteries	0.0%	0.0%	38
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	17	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	1.5%	0.9%	6,752	Lamps - Fluorescent and LED	0.0%	0.0%	43
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0	Currai al Manta	4 00/		F 440
Other Ferrous	1.4%	2.3%	6,065	Special Waste	1.2%	0.00/	5,416
Aluminum Cans - CRV	0.2%	0.1%	901	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.3% 0.1%	0.2% 0.1%	1,414 543	Treated Medical Waste	0.0% 0.9%	0.0% 1.0%	4,073
Other Non-Ferrous	0.1%	0.1%	505	Bulky Items Tires	0.9%	0.5%	1,343
Remainder/Composite Metal	0.1%	0.1%	505		0.3%	0.0%	1,343
Electronics	1.2%		5,246	Remainder/Composite Special Waste	0.0%	0.0%	0
Brown Goods	0.0%	0.0%	<b>3,240</b>	Mixed Residue	0.0%	0.0%	96
Computer-related Electronics	0.0%	0.0%	445	Mixed Residue	0.0 /8	0.0 /6	50
Other Small Consumer Electronics	0.1%	0.3%	1,468				
Video Display Devices - CRT	0.7%	0.3%	3,333				
Video Display Devices - Other	0.0%	0.0%	0,000				
	0.070	0.070	0				
Plastic	14.9%		66,791				
PETE Containers - CRV	1.9%	0.5%	8,304				
PETE Containers - Non-CRV	3.3%	1.9%	14,742				
HDPE Containers - CRV	0.1%	0.2%	483				
HDPE Containers - Non-CRV	1.9%	0.8%	8,596				
Miscellaneous Plastic Containers - CRV	0.0%	0.1%	204				
Miscellaneous Plastic Containers - Non-CRV	1.6%	0.4%	7,198				
Plastic Trash Bags	0.4%	0.5%	1,887				
Plastic Grocery and Other Merchandise Bags	0.5%	0.2%	2,156				
Non-Bag Commercial and Industrial Packaging Film	0.0%	0.0%	<sup>′</sup> 19				
Film Products	0.1%	0.1%	285				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	35				
Other Film - Other	1.4%	0.9%	6,219				
Durable Plastic Items - #2 and #5 Bulky Rigids	1.8%	3.3%	8,163				
Durable Plastic Items - Other	0.4%	0.4%	1,906	Totals	100%		447,666
Remainder/Composite Plastic	1.5%	0.8%	6,595	Sampled Streams	42		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

### Table 169. Detailed Composition – Curbside Organics: Multi-Family

	Estimated		Fotimotod		Fatimated		Estimated
Material	Estimated Percent	+/-	Estimated Tons	Material	Estimated Percent	+/-	Estimated Tons
Paper	1.9%	Ŧ/-	230	Other Organic	97.6%	Ŧ/-	12.121
Uncoated Corrugated Cardboard	0.0%	0.0%	<b>230</b>	Food	84.5%	0.0%	10,489
Paper Bags	0.0%	0.0%	0	Leaves and Grass	11.6%	0.0%	1,441
Newspaper	0.0%	0.0%	Ő	Prunings and Trimmings	1.5%	0.0%	191
White Ledger Paper	0.0%	0.0%	Ő	Branches and Stumps	0.0%	0.0%	0
Other Office Paper	0.0%	0.0%	Ő	Manures	0.0%	0.0%	Ő
Magazines and Catalogs	0.0%	0.0%	Ő	Textiles	0.0%	0.0%	ů 0
Phone Books and Directories	0.0%	0.0%	Ő	Carpet	0.0%	0.0%	ů 0
Other Miscellaneous Paper - Compostable	1.9%	0.0%	230	Remainder/Composite Organic	0.0%	0.0%	Ő
Other Miscellaneous Paper - Other	0.0%	0.0%	0	Remainael, composite organie	0.070	0.070	Ū.
Remainder/Composite Paper - Rigid Food & Beverage Cartons		0.0%	0	Inerts and Other	0.0%		0
Remainder/Composite Paper - Compostable	0.0%	0.0%	Ō	Concrete	0.0%	0.0%	0
Remainder/Composite Paper - Other	0.0%	0.0%	Ō	Asphalt Paving	0.0%	0.0%	0
				Asphalt Roofing	0.0%	0.0%	0
Glass	0.0%		0	Clean Dimensional Lumber	0.0%	0.0%	0
Clear Glass Bottles and Containers - CRV	0.0%	0.0%	0	Clean Engineered Wood	0.0%	0.0%	0
Clear Glass Bottles and Containers - Non-CRV	0.0%	0.0%	Ō	Clean Pallets & Crates	0.0%	0.0%	0
Green Glass Bottles and Containers - CRV	0.0%	0.0%	Ō	Other Wood Waste	0.0%	0.0%	0
Green Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Gypsum Board	0.0%	0.0%	0
Brown Glass Bottles and Containers - CRV	0.0%	0.0%	0	Rock, Soil and Fines	0.0%	0.0%	0
Brown Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Remainder/Composite Inerts and Other	0.0%	0.0%	0
Other Colored Glass Bottles and Containers - CRV	0.0%	0.0%	0				
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	0.0%	0	Household Hazardous Waste	0.0%		0
Flat Glass	0.0%	0.0%	0	Paint	0.0%	0.0%	0
Remainder/Composite Glass	0.0%	0.0%	0	Vehicle and Equipment Fluids	0.0%	0.0%	0
				Used Oil	0.0%	0.0%	0
Metal	0.0%		0	Batteries	0.0%	0.0%	0
Tin/Steel Cans - CRV Bimetal Containers	0.0%	0.0%	0	Mercury-Containing Items - Not Lamps	0.0%	0.0%	0
Tin/Steel Cans - Other	0.0%	0.0%	0	Lamps - Fluorescent and LED	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0	Remainder/Composite Household Hazardous	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0				
Other Ferrous	0.0%	0.0%	0	Special Waste	0.0%		0
Aluminum Cans - CRV	0.0%	0.0%	0	Ash	0.0%	0.0%	0
Aluminum Cans - Non-CRV	0.0%	0.0%	0	Treated Medical Waste	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	0	Bulky Items	0.0%	0.0%	0
Remainder/Composite Metal	0.0%	0.0%	0	Tires	0.0%	0.0%	0
				Remainder/Composite Special Waste	0.0%	0.0%	0
Electronics	0.0%		0				
Brown Goods	0.0%	0.0%	0	Mixed Residue	0.0%	0.0%	0
Computer-related Electronics	0.0%	0.0%	0				
Other Small Consumer Electronics	0.0%	0.0%	0				
Video Display Devices - CRT	0.0%	0.0%	0				
Video Display Devices - Other	0.0%	0.0%	0				
Plastic	0.5%		66				
PETE Containers - CRV	0.0%	0.0%	0				
PETE Containers - Non-CRV	0.3%	0.0%	33				
HDPE Containers - CRV	0.0%	0.0%	0				
HDPE Containers - Non-CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - CRV	0.0%	0.0%	0				
Miscellaneous Plastic Containers - Non-CRV	0.0%	0.0%	0				
Plastic Trash Bags	0.0%	0.0%	Ő				
Plastic Grocery and Other Merchandise Bags	0.0%	0.0%	Ő				
Non-Bag Commercial and Industrial Packaging Film	0.0%	0.0%	Ő				
Film Products	0.0%	0.0%	Ő				
Other Film - Flexible Plastic Pouches	0.0%	0.0%	Ő				
Other Film - Other	0.0%	0.0%	Ő				
Durable Plastic Items - #2 and #5 Bulky Rigids	0.0%	0.0%	Ő				
Durable Plastic Items - Other	0.0%	0.0%	Ő	Totals	100%		12,417
Remainder/Composite Plastic	0.3%	0.0%	33	Sampled Streams	3		_,

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

# Table 170. Detailed Composition – Other Diversion: Multi-Family

None of the selected Multi-Family sites had an Other Diversion stream.

	Disposed		Curbsi	de Recycle	Curbside Organics		Curbside Overall	
Material	Est. %	Est. Tons	Est. %	Est. Tons	Est. %	Est. Tons	Est. %	Est. Tons
Paper	24.8%	3,103,842	74.3%	1,821,018	1.1%	18,287	29.6%	4,943,147
Uncoated Corrugated Cardboard	1.9%	235,028	45.3%	1,110,460	0.2%	3,198	8.1%	1,348,685
Clean	1.2%	155,292	42.3%	1,035,182	0.2%	3,116	7.1%	1,193,591
Bin Contaminated	0.6%	71,482	0.7%	17,201	0.0%	63	0.5%	88,747
Source Contaminated	0.1%	8,253	2.4%	58,076	0.0%	18	0.4%	66,347
Paper Bags	0.4%	47,970	0.7%	16,493	0.0%	39	0.4%	64,502
Clean	0.2%	19,268	0.7%	15,945	0.0%	39	0.2%	35,252
Bin Contaminated	0.2%	21,988	0.0%	62	0.0%	0	0.1%	22,050
Source Contaminated	0.1%	6,714	0.0%	485	0.0%	0	0.0%	7,200
Newspaper	2.0%	244,635	5.1%	123,942	0.0%	857	2.2%	369,434
Clean	0.8%	104,316	3.6%	89,170	0.0%	45	1.2%	193,530
Bin Contaminated	1.0%	120,611	1.4%	34,772	0.0%	812	0.9%	156,196
Source Contaminated	0.2%	19,708	0.0%	0	0.0%	0	0.1%	19,708
White Ledger Paper	1.4%	171,116	5.6%	136,703	0.0%	48	1.8%	307,867
Clean	0.9%	119,029	5.5%	133,712	0.0%	0	1.5%	252,741
Bin Contaminated	0.3%	43,706	0.1%	1,867	0.0%	48	0.3%	45,621
Source Contaminated	0.1%	8,382	0.0%	1,123	0.0%	0	0.1%	9,505
Other Office Paper	1.4%	179,505	4.4%	108,210	0.0%	414	1.7%	288,130
Clean	0.9%	116,385	4.2%	103,406	0.0%	45	1.3%	219,837
Bin Contaminated	0.5%	57,112	0.1%	3,071	0.0%	369	0.4%	60,553
Source Contaminated	0.0%	6,007	0.1%	1,733	0.0%	0	0.0%	7,740
Magazines and Catalogs	0.6%	76,374	3.4%	83,415	0.0%	0	1.0%	159,788
Clean	0.4%	44,032	3.3%	79,857	0.0%	0	0.7%	123,889
Bin Contaminated	0.1%	8,720	0.1%	1,540	0.0%	0	0.1%	10,260
Source Contaminated	0.2%	23,621	0.1%	2,018	0.0%	0	0.2%	25,639
Phone Books and Directories	0.0%	4,071	0.1%	2,593	0.0%	0	0.0%	6,664
Clean	0.0%	2,097	0.1%	2,025	0.0%	0	0.0%	4,123
Bin Contaminated	0.0%	377	0.0%	417	0.0%	0	0.0%	793
Source Contaminated	0.0%	1,597	0.0%	151	0.0%	0	0.0%	1,748
Other Miscellaneous Paper - Compostable	0.4%	45,579	2.6%	62,821	0.5%	8,218	0.7%	116,618
Clean	0.1%	14,048	2.0%	47,765	0.4%	6,065	0.4%	67,878
Bin Contaminated	0.1%	14,805	0.1%	1,779	0.0%	397	0.1%	16,981
Source Contaminated	0.1%	16,727	0.5%	13,277	0.1%	1,756	0.2%	31,760
Other Miscellaneous Paper - Other	3.2%	395,692	5.1%	125,165	0.0%	622	3.1%	521,479
Clean	1.4%	174,951	4.8%	118,719	0.0%	420	1.8%	294,090
Bin Contaminated	1.4%	175,361	0.1%	1,496	0.0%	202	1.1%	177,059
Source Contaminated	0.4%	45,380	0.2%	4,950	0.0%	0	0.3%	50,330

# Table 171. Composition Summary with Contamination Detail: Task 3 Generator Sites

Material		posed		de Recycle		e Organics	Curbside Overall	
Material	Est. %	Est. Tons	Est. %	Est. Tons	Est. %	Est. Tons	Est. %	Est. Tons
Remainder/Composite Paper - Rigid Food & Beverage Cartons	0.6%	73,933	0.2%	4,767	0.0%	587	0.5%	79,287
Clean	0.0%	5,427	0.2%	4,519	0.0%	0	0.1%	9,946
Bin Contaminated	0.0%	2,608	0.0%	146	0.0%	587	0.0%	3,341
Source Contaminated	0.5%	65,898	0.0%	102	0.0%	0	0.4%	66,000
Remainder/Composite Paper - Compostable	10.4%	1,300,272	0.8%	18,882	0.2%	3,978	7.9%	1,323,132
Clean	1.6%	194,629	0.6%	14,581	0.0%	0	1.3%	209,210
Bin Contaminated	0.1%	7,396	0.0%	51	0.2%	3,954	0.1%	11,402
Source Contaminated	8.8%	1,098,247	0.2%	4,250	0.0%	23	6.6%	1,102,521
Remainder/Composite Paper - Other	2.6%	329,667	1.1%	27,568	0.0%	327	2.1%	357,561
Clean	0.7%	86,918	0.7%	17,728	0.0%	0	0.6%	104,646
Bin Contaminated	0.8%	99,214	0.0%	211	0.0%	327	0.6%	99,753
Source Contaminated	1.1%	143,534	0.4%	9,629	0.0%	0	0.9%	153, 163
Glass	2.0%	245,052	6.3%	155,335	0.8%	13,898	2.5%	414,285
Clear Glass Bottles and Containers - CRV	0.4%	54,505	1.2%	29,604	0.0%	424	0.5%	84,533
Clear Glass Bottles and Containers - Non-CRV	0.4%	48,486	1.7%	41,179	0.3%	4,628	0.6%	94,292
Green Glass Bottles and Containers - CRV	0.1%	12,200	0.4%	9,563	0.0%	0	0.1%	21,762
Green Glass Bottles and Containers - Non-CRV	0.3%	36,110	1.9%	45,811	0.4%	7,325	0.5%	89,246
Brown Glass Bottles and Containers - CRV	0.3%	32,698	0.9%	20,823	0.0%	397	0.3%	53,918
Brown Glass Bottles and Containers - Non-CRV	0.0%	5,293	0.3%	6,551	0.1%	1,125	0.1%	12,969
Other Colored Glass Bottles and Containers - CRV	0.0%	297	0.0%	0	0.0%	0	0.0%	297
Other Colored Glass Bottles and Containers - Non-CRV	0.0%	667	0.0%	349	0.0%	0	0.0%	1,016
Flat Glass	0.1%	17,071	0.0%	6	0.0%	0	0.1%	17,077
Remainder/Composite Glass	0.3%	37,725	0.1%	1,450	0.0%	0	0.2%	39,175
Metal	3.4%	425,498	2.0%	48,567	0.1%	1,117	2.8%	475,182
Tin/Steel Cans - CRV Bimetal Containers	0.0%	5,449	0.1%	1,299	0.0%	22	0.0%	6,770
Clean	0.0%	1,104	0.1%	1,260	0.0%	22	0.0%	2,386
Bin Contaminated	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Source Contaminated	0.0%	4,345	0.0%	39	0.0%	0	0.0%	4,384
Tin/Steel Cans - Other	0.6%	72,554	0.9%	22,336	0.0%	617	0.6%	95,507
Clean	0.2%	20, 125	0.5%	13,466	0.0%	0	0.2%	33,591
Bin Contaminated	0.0%	6,214	0.0%	0	0.0%	617	0.0%	6,831
Source Contaminated	0.4%	46,215	0.4%	8,870	0.0%	0	0.3%	55,085
Major Appliances	0.0%	2,132	0.0%	0	0.0%	0	0.0%	2,132
Used Oil Filters	0.0%	423	0.0%	0	0.0%	0	0.0%	423
Other Ferrous	0.7%	91,492	0.5%	11,474	0.0%	55	0.6%	103,021

		posed		de Recycle	Curbside Organics		Curbside Overall	
Material	Est. %	Est. Tons	Est. %	Est. Tons	Est. %	Est. Tons	Est. %	Est. Tons
Aluminum Cans - CRV	0.1%	18,291	0.2%	4,610	0.0%	84	0.1%	22,984
Clean	0.1%	13,151	0.2%	4,610	0.0%	62	0.1%	17,823
Bin Contaminated	0.0%	1,261	0.0%	0	0.0%	20	0.0%	1,281
Source Contaminated	0.0%	3,879	0.0%	0	0.0%	2	0.0%	3,880
Aluminum Cans - Non-CRV	0.0%	6,074	0.1%	3,087	0.0%	0	0.1%	9,161
Clean	0.0%	2,787	0.1%	2,151	0.0%	0	0.0%	4,938
Bin Contaminated	0.0%	161	0.0%	0	0.0%	0	0.0%	161
Source Contaminated	0.0%	3, 126	0.0%	936	0.0%	0	0.0%	4,061
Other Non-Ferrous	0.8%	94,321	0.2%	3,821	0.0%	334	0.6%	98,477
Remainder/Composite Metal	1.1%	134,763	0.1%	1,941	0.0%	4	0.8%	136,708
Electronics	0.5%	57,866	0.3%	7,647	0.0%	13	0.4%	65,526
Brown Goods	0.1%	15,168	0.0%	0	0.0%	0	0.1%	15,168
Computer-related Electronics	0.1%	6,567	0.1%	2,299	0.0%	0	0.1%	8,866
Other Small Consumer Electronics	0.0%	4,020	0.1%	2,016	0.0%	13	0.0%	6,049
Video Display Devices - CRT	0.2%	23,969	0.1%	3,333	0.0%	0	0.2%	27,302
Video Display Devices - Other	0.1%	8,141	0.0%	0	0.0%	0	0.0%	8,141
Plastic	12.6%	1,578,221	9.8%	240,777	0.2%	3,861	10.9%	1,822,859
PETE Containers - CRV	0.4%	44,977	0.8%	20,750	0.0%	432	0.4%	66,159
Clean	0.2%	31,151	0.8%	20,186	0.0%	373	0.3%	51,710
Bin Contaminated	0.0%	1,258	0.0%	0	0.0%	59	0.0%	1,316
Source Contaminated	0.1%	12,569	0.0%	564	0.0%	0	0.1%	13, 133
PETE Containers - Non-CRV	0.3%	34,034	1.3%	31,687	0.0%	198	0.4%	65,918
Clean	0.0%	6,092	0.8%	18,511	0.0%	32	0.1%	24,636
Bin Contaminated	0.0%	1,098	0.0%	487	0.0%	152	0.0%	1,737
Source Contaminated	0.2%	26,843	0.5%	12,689	0.0%	13	0.2%	39,545
HDPE Containers - CRV	0.1%	7,350	0.1%	1,331	0.0%	0	0.1%	8,681
Clean	0.0%	3,863	0.1%	1,318	0.0%	0	0.0%	5,181
Bin Contaminated	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Source Contaminated	0.0%	3,487	0.0%	13	0.0%	0	0.0%	3,500
HDPE Containers - Non-CRV	0.5%	58,689	1.1%	27,023	0.0%	78	0.5%	85,790
Clean	0.1%	10,182	0.8%	20,752	0.0%	23	0.2%	30,956
Bin Contaminated	0.0%	1,333	0.1%	1,561	0.0%	56	0.0%	2,950
Source Contaminated	0.4%	47,174	0.2%	4,710	0.0%	0	0.3%	51,884
Miscellaneous Plastic Containers - CRV	0.0%	5,198	0.0%	299	0.0%	0	0.0%	5,497
Clean	0.0%	1,229	0.0%	282	0.0%	0	0.0%	1,511
Bin Contaminated	0.0%	256	0.0%	0	0.0%	0	0.0%	256
Source Contaminated	0.0%	3,713	0.0%	17	0.0%	0	0.0%	3,730

		posed	Curbsi	de Recycle		le Organics	Curbsi	de Overall
Material	Est. %	Est. Tons	Est. %	Est. Tons	Est. %	Est. Tons	Est. %	Est. Tons
Miscellaneous Plastic Containers - Non-CRV	0.4%	45,830	1.4%	34,175	0.0%	298	0.5%	80,303
Clean	0.1%	9,717	1.2%	28,259	0.0%	197	0.2%	38,172
Bin Contaminated	0.0%	1,032	0.0%	0	0.0%	50	0.0%	1,083
Source Contaminated	0.3%	35,081	0.2%	5,916	0.0%	52	0.2%	41,048
Plastic Trash Bags	2.4%	302,596	0.3%	7,400	0.0%	188	1.9%	310,185
Plastic Grocery and Other Merchandise Bags	0.3%	37,387	0.4%	9,412	0.0%	42	0.3%	46,842
Non-Bag Commercial and Industrial Packaging Film	0.5%	62,285	0.7%	18,324	0.0%	138	0.5%	80,748
Film Products	0.0%	410	0.1%	2,212	0.0%	25	0.0%	2,646
Other Film - Flexible Plastic Pouches	0.2%	20,955	0.0%	370	0.0%	3	0.1%	21,328
Other Film - Other	2.1%	261,571	0.9%	21,289	0.1%	1,980	1.7%	284,840
Durable Plastic Items - #2 and #5 Bulky Rigids	0.1%	15,179	1.0%	24,758	0.0%	0	0.2%	39,938
Durable Plastic Items - Other	1.0%	122,409	0.4%	10,730	0.0%	57	0.8%	133,196
Remainder/Composite Plastic	4.5%	559,352	1.3%	31,015	0.0%	421	3.5%	590,787
Other Organic	42.8%	5,361,069	5.1%	124,610	97.8%	1,678,409	42.9%	7,164,088
Food	26.5%	3,320,900	2.7%	65,473	16.1%	275,510	21.9%	3,661,883
Leaves and Grass	3.5%	432,571	0.0%	416	80.1%	1,373,674	10.8%	1,806,661
Prunings and Trimmings	2.1%	259,666	0.3%	6,269	1.7%	28,603	1.8%	294,538
Branches and Stumps	0.5%	62,394	0.7%	17,723	0.0%	0	0.5%	80,117
Manures	0.2%	19,153	0.0%	0	0.0%	0	0.1%	19,153
Textiles	2.0%	253,061	0.5%	13,430	0.0%	622	1.6%	267,113
Carpet	1.0%	125,287	0.3%	6,989	0.0%	0	0.8%	132,275
Remainder/Composite Organic	7.1%	888,038	0.6%	14,309	0.0%	0	5.4%	902,347
Inerts and Other	11.3%	1,418,799	1.6%	39,776	0.0%	310	8.7%	1,458,886
Concrete	0.7%	81,557	0.0%	0	0.0%	0	0.5%	81,557
Asphalt Paving	0.2%	31,303	0.0%	0	0.0%	0	0.2%	31,303
Asphalt Roofing	0.4%	49,313	0.0%	50	0.0%	0	0.3%	49,363
Clean Dimensional Lumber	0.5%	67,672	0.6%	15,264	0.0%	0	0.5%	82,936
Clean Engineered Wood	4.0%	500,082	0.7%	18,139	0.0%	0	3.1%	518,220
Clean Pallets & Crates	0.3%	35,839	0.0%	0	0.0%	0	0.2%	35,839
Other Wood Waste	2.0%	249,903	0.0%	177	0.0%	0	1.5%	250,080
Gypsum Board	0.3%	40,106	0.0%	556	0.0%	0	0.2%	40,662
Rock, Soil and Fines	1.2%	153,139	0.0%	0	0.0%	310	0.9%	153,449
Remainder/Composite Inerts and Other	1.7%	209,885	0.2%	5,591	0.0%	0	1.3%	215,476

	Dis	posed	Curbsic	de Recycle	Curbsid	e Organics	Curbside Overall	
Material	Est. %	Est. Tons	Est. %	Est. Tons	Est. %	Est. Tons	Est. %	Est. Tons
Household Hazardous Waste	0.2%	22,586	0.0%	816	0.0%	14	0.1%	23,415
Paint	0.1%	9,172	0.0%	0	0.0%	0	0.1%	9,172
Vehicle and Equipment Fluids	0.0%	938	0.0%	0	0.0%	0	0.0%	938
Used Oil	0.0%	56	0.0%	404	0.0%	0	0.0%	460
Batteries	0.0%	1,790	0.0%	304	0.0%	14	0.0%	2,108
Mercury-Containing Items - Not Lamps	0.0%	20	0.0%	0	0.0%	0	0.0%	20
Lamps - Fluorescent and LED	0.0%	660	0.0%	80	0.0%	0	0.0%	740
Remainder/Composite Household Hazardous	0.1%	9,951	0.0%	27	0.0%	0	0.1%	9,978
Special Waste	1.7%	219,007	0.3%	7,215	0.0%	0	1.4%	226,222
Ash	0.3%	33,007	0.0%	0	0.0%	0	0.2%	33,007
Treated Medical Waste	0.0%	4,939	0.0%	347	0.0%	0	0.0%	5,286
Bulky Items	1.3%	158,435	0.2%	4,788	0.0%	0	1.0%	163,222
Tires	0.0%	2,702	0.1%	1,383	0.0%	0	0.0%	4,086
Remainder/Composite Special Waste	0.2%	19,923	0.0%	698	0.0%	0	0.1%	20,621
Mixed Residue	0.8%	100,847	0.1%	3,577	0.0%	0	0.6%	104,424
Totals	100.0%	12,532,786	100.0%	2,449,337	100.0%	1,715,909	100.0%	16,698,032

Percentages for material types may not total 100% due to rounding.

Tons are estimates for businesses and apartments statewide with curbside diversion

# **Appendix F: Other Analysis Tables**

	Statewide Employment*	% of Statewide Employment	Rank by Employment
Services - Professional, Technical, & Financial	2,141,914	15%	1
Services - Management, Administrative, Support, & Social	2,034,556	14%	2
Medical & Health	1,491,950	10%	3
Education	1,317,936	9%	4
Restaurants	1,197,110	8%	5
Retail Trade - All Other	1,137,123	8%	6
Not Elsewhere Classified	1,077,373	7%	7
Manufacturing - All Other	846,906	6%	8
Public Administration	802,458	5%	9
Durable Wholesale & Trucking	641,600	4%	10
Manufacturing - Food & Nondurable Wholesale	456,830	3%	11
Retail Trade - Food & Beverage Stores	344,256	2%	12
Arts, Entertainment, & Recreation	324,080	2%	13
Services - Repair & Personal	300,627	2%	14
Manufacturing - Electronic Equipment	290,224	2%	15
Hotels & Lodging	222,871	2%	16
Overall Commercial	14,627,814	100%	

Table 172. Statewide Employment Rankings, by Group

\*Employment based on 2013 data provided by CalRecycle

	Tons Disposed	% of Comm. Disposal	Rank by Tons Disposed
Services - Professional, Technical, & Financial	3,994,643	24%	1
Restaurants	2,876,653	17%	2
Retail Trade - All Other	2,433,989	15%	3
Services - Management, Administrative, Support, & Social	1,514,667	9%	4
Medical & Health	1,003,316	6%	5
Arts, Entertainment, & Recreation	829,661	5%	6
Manufacturing - Food & Nondurable Wholesale	582,486	4%	7
Education	562,442	3%	8
Not Elsewhere Classified	538,858	3%	9
Retail Trade - Food & Beverage Stores	417,791	3%	10
Hotels & Lodging	384,327	2%	11
Manufacturing - All Other	384,292	2%	12
Durable Wholesale & Trucking	381,767	2%	13
Services - Repair & Personal	281,371	2%	14
Public Administration	259,137	2%	15
Manufacturing - Electronic Equipment	91,265	1%	16
Overall Commercial	16,536,664	100%	

# Table 173. Tons Disposed Rankings, by Group

	Tons Diverted	% of Comm. Diversion	Rank by Tons Diverted
Retail Trade - Food & Beverage Stores	1,868,403	20%	1
Durable Wholesale & Trucking	1,538,803	16%	2
Services - Management, Administrative, Support, & Social	1,417,462	15%	3
Services - Professional, Technical, & Financial	949,869	10%	4
Manufacturing - All Other	885,586	9%	5
Not Elsewhere Classified	750,291	8%	6
Restaurants	617,826	7%	7
Retail Trade - All Other	306,012	3%	8
Manufacturing - Food & Nondurable Wholesale	261,646	3%	9
Services - Repair & Personal	170,866	2%	10
Arts, Entertainment, & Recreation	168,036	2%	11
Manufacturing - Electronic Equipment	125,666	1%	12
Education	97,926	1%	13
Hotels & Lodging	93,712	1%	14
Medical & Health	93,629	1%	15
Public Administration	50,354	1%	16
Overall Commercial	9,396,087	100%	

# Table 174. Tons Diverted Rankings, by Group

	Tons Generated	% of Comm. Generation	Rank by Tons Generated
Services - Professional, Technical, & Financial	4,944,512	19%	1
Restaurants	3,494,479	13%	2
Services - Management, Administrative, Support, & Social	2,932,129	11%	3
Retail Trade - All Other	2,740,001	11%	4
Retail Trade - Food & Beverage Stores	2,286,193	9%	5
Durable Wholesale & Trucking	1,920,570	7%	6
Not Elsewhere Classified	1,289,149	5%	7
Manufacturing - All Other	1,269,878	5%	8
Medical & Health	1,096,945	4%	9
Arts, Entertainment, & Recreation	997,697	4%	10
Manufacturing - Food & Nondurable Wholesale	844,131	3%	11
Education	660,368	3%	12
Hotels & Lodging	478,039	2%	13
Services - Repair & Personal	452,237	2%	14
Public Administration	309,491	1%	15
Manufacturing - Electronic Equipment	216,931	1%	16
Overall Commercial	25,932,751	100%	

# Table 175. Tons Generated Rankings, by Group

Group Number and Name		Disposed	Curbside Recycle	Curbside Organics	Other Diversion	Generation	Diversion Rate
Overall Commercial Sector		0.93	0.12	0.10	0.34	1.48	38%
1	Arts, Entertainment, & Recreation	1.94	0.12	0.02	0.23	2.30	16%
2	Durable Wholesale & Trucking	0.57	0.16	0.00	2.17	2.91	80%
3	Education	0.38	0.04	0.01	0.02	0.45	15%
4	Hotels & Lodging	1.40	0.19	0.01	0.16	1.76	20%
5	Manufacturing - Electronic Equipment	0.31	0.07	0.00	0.36	0.75	58%
6	Manufacturing - Food & Nondurable Wholesale	1.23	0.05	0.01	0.50	1.79	31%
7	Manufacturing - All Other	0.44	0.10	0.00	0.93	1.47	70%
8	Medical & Health	0.57	0.04	0.00	0.01	0.63	9%
9	Public Administration	0.30	0.04	0.00	0.02	0.37	17%
10	Restaurants	1.57	0.18	0.12	0.06	1.92	18%
11	Retail Trade - Food & Beverage Stores	0.94	0.11	0.10	3.94	5.08	82%
12	Retail Trade - All Other	1.74	0.08	0.00	0.14	1.96	11%
13	Services - Management, Administrative, Support, & Social	0.60	0.09	0.48	0.01	1.18	49%
14	Services - Professional, Technical, & Financial	1.61	0.30	0.08	0.04	2.02	20%
15	Services - Repair & Personal	0.85	0.13	0.21	0.17	1.36	37%
16	Not Elsewhere Classified	0.46	0.04	0.01	0.58	1.09	58%
17	Multifamily*	0.74	0.13	0.00		0.87	15%

# Table 176. Generation Rate Summary by Weight, by Group (TPEPY)Calculated with Total Employees Instead of Full Time Employees

\*Multifamily is reported in tons per unit per year

		Cubic Yards per Employee per Year			
Gro	up Number and Name	Disposed	Curbside Recycle	Curbside Organics	Curbside Total
Overall Commercial Sector		13.49	3.98	1.45	18.91
1	Arts, Entertainment, & Recreation	17.87	5.23	0.34	23.44
2	Durable Wholesale & Trucking	11.90	2.56	0.00	14.46
3	Education	6.15	2.19	0.15	8.48
4	Hotels & Lodging	18.92	4.39	0.19	23.49
5	Manufacturing - Electronic Equipment	7.02	2.89	0.00	9.91
6	Manufacturing - Food & Nondurable Wholesale	15.35	1.75	0.14	17.24
7	Manufacturing - All Other	10.17	3.11	0.00	13.29
8	Medical & Health	10.14	2.69	0.10	12.93
9	Public Administration	4.89	1.52	0.08	6.49
10	Restaurants	19.88	6.75	0.62	27.25
11	Retail Trade - Food & Beverage Stores	19.26	6.09	1.42	26.76
12	Retail Trade - All Other	24.99	5.78	0.00	30.76
13	Services - Management, Administrative, Support, & Social	10.65	2.54	7.85	21.04
14	Services - Professional, Technical, & Financial	17.59	7.11	1.49	26.19
15	Services - Repair & Personal	20.68	6.64	0.00	27.31
16	Not Elsewhere Classified	9.66	2.13	0.15	11.94
17	Multifamily*	15.50	5.09	0.04	20.63

# Table 177. Generation Rate Summary by Volume, by Group (YPEPY)Calculated with Total Employees Instead of Full Time Employees

\*Multifamily is reported in cubic yards per unit per year

# Appendix G: Recommendations for Future Studies

The project team spent nearly two years planning the study, executing the fieldwork, and evaluating the field data. Over the course of the project we learned that:

- Everything will take twice as long as expected.
- A firm commitment from the node facilities should be received before beginning recruitment. The project team spent many days chasing sort locations when node facilities backed out at the last minute.
- Field schedules should be flexible to ensure that each season's business recruitment is completed prior to beginning fieldwork.
- A process for handling the data analysis for generators with mixed-waste processing should be articulated prior to beginning fieldwork.
- Obtaining cooperation from the local haulers is critical. Accurate estimates of the collection schedule at each business increases the fieldwork efficiency. The hauler is the only entity with reasonably accurate collection information; the generator sites rarely know their collection schedule, much less the time of collection.
- Not every site will be able to provide complete quantity and composition data. Budget to make approximately 10 percent more site visits than the goal.
- 200 pounds is too large for generator waste samples. Many businesses were dropped from the recruitment process because it takes them several weeks to generate 200 pounds of disposed waste.
- Identity theft and privacy concerns will continue to make random business recruitment more and more difficult.
- Chains and large corporations are particularly difficult to recruit because of their corporate bureaucracy.
- Carefully define the waste streams so that it is clear what counts as curbside diversion and what counts as Other Diversion. A business that bales its cardboard, for example, falls into a gray area: Is it Curbside Recycle or Other Diversion?

Preparing for and addressing these items will help future studies run smoothly.

# **Appendix H: Health and Safety Plan**

Cascadia Consulting Group, Inc.'s health and safety plan is detailed below.

# 1. RESPONSIBILITY

The Cascadia Human Resources department (HR) has the responsibility for implementing and maintaining the Health and Safety Program for Cascadia Consulting Group, Inc. Cascadia supervisors and project managers are responsible for implementing and maintaining safe working practices in their work areas and for answering worker questions about the Health and Safety Plan. A copy of this Health and Safety Plan is provided to all Cascadia Consulting Group, Inc. employees on the intranet (under the HR tab) and reviewed with new employees during the onboarding process.

The Cascadia Consulting Group, Inc. Health and Safety Plan is not a static plan. As conditions and situations arise, this Health and Safety Plan will be updated and augmented in accordance with OSHA and MSHA standards.

# 2. COMPLIANCE

All workers, including supervisors, are responsible for complying with safe and healthful work practices. Our goal is to ensure that all Cascadia Consulting Group, Inc. workers understand and comply with these practices. To accomplish this, our procedures include informing workers of the provisions of our program via training of current staff and new staff, evaluating the ongoing safety performance of all workers, and providing additional training to workers whose safety performance may be deficient.

The employees of Cascadia Consulting Group, Inc. often perform their duties as visitors to disposal facilities. The procedures described in our program in no way supersede requirements which may already be in place at these facilities. Instead, this plan is designed to augment and work in conjunction with any site safety plans in place at these facilities. We follow all facility safety requirements that are more stringent than our own. When our safety procedures exceed those of our host, workers must follow our procedures, regardless of whether the host facility has any such requirements.

## 3. COMMUNICATION

Cascadia Consulting Group, Inc. is committed to providing a safe work environment for all of its workers. All supervisors and/or project managers are responsible for communicating with all workers about occupational safety and health in a form readily understood by all workers. Workers are encouraged to inform their supervisors and/or HR about workplace hazards without fear of reprisal. If you discover something that could cause injury or is unsafe, tell your manager or supervisor immediately.

Cascadia Consulting Group, Inc. routinely communicates with and instructs employees about general safe work practices and hazards unique to each employee's job assignment. Our overall communication system includes the following elements:

 New worker orientation, which includes a discussion of safety and health policies and procedures

- Worker training in the specific protocols of our field procedures
- Scheduled and "tailgate" safety meetings
- Posted or distributed safety information
- Periodic review of our Health and Safety Program

The employee's supervisor is responsible for ensuring that all field personnel have read and understood the master copy of this Health and Safety Plan document, and that all workers have received orientation and training in the safety protocols to be followed in conducting our work.

Each supervisor and project manager has the duty and responsibility to:

- Ensure that the procedures in this document are followed.
- Be familiar with local emergency services, and maintain a list of emergency phone numbers.
- Conduct "tailgate" health and safety meetings to notify workers of any changes in safety protocol.
- Inspect personal protective equipment and ensure proper use of such equipment.
- Monitor on-site hazards and early health warning signs (e.g., heat stress/stroke, dehydration, or fatigue) of site personnel.
- Stop unsafe operations and summon emergency services when needed.

The supervisor and/or project manager will brief workers on health and safety protocols particular to the host site. This will include emergency evacuation and rally point information to ensure that, in the event of an emergency, all Cascadia Consulting Group, Inc. workers will adhere to site-specific evacuation and management procedures.

### 4. HAZARD ASSESSMENT AND PREVENTION

We perform assessments of possible work hazards, and the procedures to work safely around them, when:

- New substances, processes, procedures, or equipment that present potential new hazards are introduced into our workplace.
- New, previously unidentified hazards are recognized.
- Workplace conditions warrant an assessment.
- Occupational injuries and illnesses occur.

On a daily basis, supervisors and/or project managers are to identify and evaluate workplace hazards that may be present at each work site. We routinely encounter the same day-to-day risks when we conduct our work. Yet, each facility is different and may present unique hazards that can affect us. These are some possible hazards that may occur during our work:

### Physical hazards:

- Cuts and punctures
- Lifting
- Slipping and falling
- Heat stress and fatigue
- Traffic or heavy equipment movement
- Noise exposure
- Animal and/or insect bites

### Airborne contaminants:

• Dust and windblown debris

### Chemical hazards:

- Liquid spills from containers
- Household and hazardous chemicals

### **Biological hazards:**

- Household hazardous wastes
- Medical wastes
- Items contaminated with blood/body fluid
- Hypodermic needles

### Vaccinations

Due to the nature of waste composition sampling, exposures to airborne pathogens and subcutaneous introduction of pathogens are possible. In accordance with OSHA regulations, Cascadia employees who will be performing work in which they may be exposed to airborne pathogens and subcutaneous introduction of pathogens will be offered tetanus and hepatitis B vaccines at the cost of Cascadia Consulting Group, Inc. An employee may decline to accept the vaccination by signing a statement acknowledging that: (1) he or she understands that he or she is at risk of acquiring the hepatitis B virus infection; (2) he or she has been given the opportunity to be vaccinated at no charge; and (3) he or she is declining the vaccination at the present time but

understands that if he or she continues to be at risk, he or she will still be able to receive the vaccination series at no charge.

## 5. ACCIDENT/EXPOSURE INVESTIGATIONS

Procedures for investigating workplace accidents and hazardous substance exposures include:

- Interviewing injured workers and witnesses.
- Examining the workplace for factors associated with the accident/exposure.
- Determining the cause of the accident/exposure.
- Taking corrective action to prevent the accident/exposure from reoccurring.
- Recording the findings and actions taken.

### 6. HAZARD CORRECTION

Timely corrective action will be taken to remedy an unsafe condition, practice or procedure. When an imminent hazard exists that cannot be immediately abated without endangering employee(s) and/or property, we will remove all exposed workers from the area.

### 7. TRAINING AND INSTRUCTION

All Cascadia Consulting Group, Inc. workers, including supervisors, shall have training and instruction on general and job-specific safety and health practices. Training and instruction is provided:

- To all new workers who will be performing fieldwork.
- To all workers given new job assignments for which training has not been previously provided.
- Whenever new substances, processes, procedures, or equipment are introduced to the workplace that present a new hazard.
- Whenever Cascadia Consulting Group, Inc. is made aware of a new or previously unrecognized hazard.
- To supervisors to familiarize them with the safety and health hazards to which workers may be exposed.
- To all workers with respect to hazards specific to each employee's job assignment.

Cascadia Consulting Group provides for its workers the proper safety equipment for performance of duties associated with waste sampling. These items include:

• Coveralls or protective outer wear (optional)

- Rubber gloves and liners (required)
- Lower back support apparatus (optional)
- Hearing protection (optional/based on site requirements)
- Safety glasses (optional/based on site requirements)
- Reflective safety vests (required)
- Hard hats and liners (required)
- Knee pads (optional)
- Tetanus and hepatitis B vaccinations (required, or sign waiver)

During the conduct of our fieldwork, the following personnel health and safety guidelines are to be followed:

- Be in good physical condition, maintain a current tetanus booster and hepatitis B shot, and not be oversensitive to odors and dust.
- Be able to communicate in English, and be able to read warning signs/labels.
- Routinely check personal protective equipment and work clothing for proper fit and condition; replace or repair defective items immediately.
- Always look at what you are picking up or sorting—the most effective way to prevent cuts and punctures is to see what you are handling. Use a small rake or shovel to move material around for sorting.
- Lift properly, and ask for assistance when lifting heavy or bulky items.
- Be on the lookout for slipping and tripping hazards.
- Do not attempt to identify unknown chemical substances in unlabeled containers; never sniff anything to see what it is.
- Wash hands and face before eating or drinking.
- Smoke only in designated areas.
- Consume plenty of fluids during hot days, and watch for signs of heat-related illness, both in yourself and your crewmates.
- Be aware of your surroundings and alert to the possibility of unexpected hazards.
- Alert your supervisor if you feel ill, overly fatigued, or injured.
- Treat even minor cuts and injuries immediately.