



To: Zero Waste Advisory Commission

From: Sam Angoori, P.E., Interim
Director Austin Resource
Recovery Department

Date: November 14, 2018

Subject: **Director's Monthly Report to the Zero Waste Advisory Commission**

Expansion of Household Hazardous Waste Program

ZWAC had asked for ARR to look into possible ways to expand the HHW Program, as it is not in the most convenient of locations for most of Austin's residents. Since opening six days per week, the program has increased participation from 17,925 customers and collecting 1,477,925 pounds in FY14, to the current pace of 30,750 customers and 1,898,460 pounds for FY18. While a 72% increase in participation is commendable, there are other options to explore to potentially expand the program further. Representatives from Travis County, Cedar Park, and local businesses have been contacted, and initial meetings have been scheduled for this month. Local churches have also shown interest in partnering with the City for a one-time collection event. Additionally, our current hazardous waste vendor is contacting their larger Austin-area customers with space and interest for such an event. As each of these items progress, we will give an update at future ZWAC meetings as to which opportunities may be more feasible.

- Another RRDOC with the same capabilities of the current facility, is planned at the new North Service Center.
- Work with our current vendor to look at the possibility of an off-site collection event. These can be expensive and the specifications for locations (especially in metropolitan areas) can be difficult to meet in regards to space and regulatory requirements.
 - *Staff is currently searching for sites that meet the requirements that we would have for an offsite collection that include enough space for hundreds of cars to queue, contractor setup, and considerations for neighboring residents and businesses. Any potential site will be visited by both City of Austin staff and the hazardous waste vendor to determine the logistical feasibility of each location. These events can cost in excess of \$80,000 per event.*
 - *The Travis County Expo Center has verbally agreed to a collection event in the future.*
 - *On Nov 7, ARR staff met with representatives from Cedar Park to discuss partnership on a future joint collection event. During this meeting, Cedar Park stated they would rather continue to host events directed solely toward Cedar Park residents, rather than a joint event. A shared permanent facility was discussed as a prospective possibility, although they are hesitant to commit to something that far in the future.*
 - *ACC has declined to host such an event.*
 - *Dell campuses have been contacted, and we are awaiting a response.*
- Look at other City properties that might be able to house a "scaled down" version of the current HHW Facility. Possibly a site that collects just Batteries, Oil, Paint, and Antifreeze.

- *Sites like Fleet Service Centers, or Austin Energy and Austin Water may serve as scaled down BOPA (Batteries, Oil, Paint, and Antifreeze) collection sites. These locations would need to have available space, and allow for security and traffic control. The benefit to these sites is how numerous and geographically widespread they are around Austin. Staff anticipates meeting with other departments to evaluate potential locations.*
- Work with Travis County to find alternative collection sites.
 - *Travis County has some sites that are outside the City Limits that serve as recycling collection stations, but would likely benefit Travis County residents more than Austin residents. A County site would require infrastructure such as storm shelters, lockers, and forklifts prior to operations commencing, costing approximately \$90,000*
- Look into a pilot for on-call home pick up of HHW in different areas of Austin.
 - *Staff has explored this option in the past; it would require at least 2 new vehicles, retrofitted to have the appropriate capacity and spill response equipment. This would require at least one additional FTE for each vehicle.*
- Interlocal agreements where we work with other municipalities and Austin residents may use their HHW facilities/programs. We will also explore this option during meetings with municipalities regarding a possible mobile collection event. These meetings are scheduled in the coming months.
 - *Residents from outside the City of Austin, but reside within Travis County, make up about 16% of the HHW's customers. This includes the cities of Pflugerville, and Manor, and Sunset Valley that do not have their own sites; these municipalities direct their residents to the City of Austin's HHW.*
 - *Other smaller surrounding municipalities have sites that accept HHW from residents, although on a limited schedule. It is our belief that utilizing this option would increase services to Austin residents, while having the lowest cost. Any cost sharing would mirror our own interlocal agreement with Travis County, so that COA would still pay for Austin residents' HHW, but avoid the cost of a new site and infrastructure. However, there have been some initial concerns from smaller municipalities regarding capacity, should Austin residents start utilizing these facilities.*

ARR Fleet Purchases FY 19

In 2018, Fleet Services entered into a Master Agreement which eliminates the need to go to Council each year and allows the City to order equipment on a reduced time table. Fleet Services entered into the Master Agreement in FY 18, with two, one-year options and allows for price increases each year.

Under the Master Agreement, ARR is scheduled to purchase the following types of equipment for FY 19. All units are replacements with the exception of the multi-pack vehicles that will be purchased for the planned Curbside Compost program expansion.

Litter Abatement			
Number of Units	Type	Area	Fuel
8	Multi-packs	Curbside Compost	Bio-Diesel
5	Street Sweepers	Street Sweeping	Bio-Diesel
1	9 Yard Rear Loader	Yard Trimmings	Bio-Diesel/Electric Hybrid
3	25 Yard Rear Loaders	Yard Trimmings	Bio-Diesel
1	25 Yard Rear Loader	Clean Austin Program	Bio-Diesel
1	Crane with 30-Yard Box	Clean Austin Program	Bio-Diesel
1	Crane with 30-Yard Box	Bulk Collection	Bio-Diesel

Collections			
Number of Units	Type	Area	Fuel
6	Automated Side Loaders	Garbage	Bio-Diesel
4	Automated Side Loaders	Recycle	Bio-Diesel
2	25-Yard Rear Loaders	Recycle	Bio-Diesel
1	13-Yard Rear Loaders	Recycle	Bio-Diesel

Diversion Facilities			
Number of Units	Type	Area	Fuel
1	Caterpillar Loader	Brush Grinding	Bio-Diesel

Total Units: 34

Expansion of Dead Animal Collection

On October 1, 2018 Austin Resource Recovery expanded the schedule for Dead Animal collection to seven days a week, 6:30 am -3 pm. Previously, collections occurred Monday-Saturday. With the increased growth of the city, ARR realized a need to expand service collection to meet operational needs. No additional resources were required for the collection expansion.

Universal Recycling Ordinance – Final Phase In

On October 1, 2018, the final phase of the Universal Recycling Ordinance (URO) went into effect. This means that all commercial and multifamily properties are required to provide access to recycling for employees and tenants, and all properties with a food permit must divert organic material. The final phase included just over 5,000 food-permitted businesses.

More than 85 percent of Austin’s trash and recycling comes from commercial businesses, multifamily properties and food service establishments. Of the materials sent to landfills, 37 percent is organic and could have been donated or composted. Consequently, the URO is a key component in the City’s strategy to reach Zero Waste by 2040.

The announcement of the final phase-in gathered media attention from all over the world – from the United Kingdom to Singapore to Beirut. It was trending on Twitter and got shout outs from well-known musicians during the ACL Music Festival. Austin’s policy is providing a framework for other communities as they look to minimize waste.

Businesses have options for organics diversion, including donating food to feed people, sending food scraps to local animal farms or ranches, developing customized solutions and composting, either on-site or with a private organic collection provider.

Austin Resource Recovery’s Business Outreach services offer free site-specific information, guidance and training. For help establishing or expanding recycling and/or diversion programs, business owners may visit AustinTexas.Gov/URO or email requests to: commercialrecycling@austintexas.gov.

Reuse Weekend

The City of Austin proclaimed October 18, 2018 as Reuse Day to demonstrate local commitment to the reuse sector and National Reuse Day, a nationally recognized day dedicated to encouraging the purchase, use, or donation of reusable, reclaimed and remanufactured products.

Austin Resource Recovery partnered with the Austin Eco Network to expand the National Reuse Day celebration for an entire weekend: from Friday, October 19 to Sunday, October 21. When Austinites donated at participating locations of the Austin Reuse Directory (AustinReuseDirectory.com), they received an “I Heart Reuse” sticker to be used for discounted shopping at those same locations.

The City also supports reuse through its Recycle and Reuse Drop-Off Center and the Austin Materials Marketplace. Reuse is an important component of Austin’s overall Zero Waste strategy, which sets a goal of 25,000 tons of diversion through reuse by 2030.

New Plastics Economy Global Commitment

Mayor Adler and the City of Austin joined the New Plastics Economy Global Commitment alongside 250 other organizations including many of the world’s largest packaging producers, brands, retailers and recyclers, as well as governments and non-governmental organizations (NGOs). The New Plastics Economy Global Commitment is led by the Ellen MacArthur Foundation, in collaboration with UN Environment, and was announced at the Our Ocean conference on October 29th. The Global Commitment aims to create ‘a new normal’ for plastic packaging.

The commitment’s targets include moving from single-use to reuse packaging models; innovation to ensure 100% of plastic packaging can be easily and safely reused, recycled, or composted by 2025; and significantly increasing the amounts of plastics reused or recycled and made into new packaging or products.

Joining this Global Commitment aligns with Austin’s Zero Waste goal and existing efforts to reduce plastic waste, including the #StillBringIt campaign encouraging use of reusable bags, programs to encourage voluntary prohibition of single use plastic products, accepting rigid plastics #1-7 in our curbside recycling program, offering free plastic film and foam recycling at the Recycle and Reuse Drop-off Center, facilitating business-to-business reuse through the Austin Materials Marketplace, and supporting circular economy businesses through the Recycling Economic Development Program. For more information visit newplasticseconomy.org.



ARR Solicitations Update
ZWAC Meeting Date: November 14, 2018

New ARR Solicitations are under Development (in alphabetical order):

1. **None**

Requests for Information (RFI) scheduled to be issued in the next 30 days:

1. **Master Plan Update:** Consultant to update the Austin Resource Recovery's Master Plan by conducting research, analyzing existing programs and data, conducting a gap analysis, conducting stakeholder feedback sessions, and incorporating community feedback and values in recommendations for policy and/or program development. New service, no existing contract.

ARR New Contracts for Review (in alphabetical order):

1. **None**

Definitions:

Request for Proposals (RFP): Formal request for a supplier to provide a solution and cost estimate to a complex need.

Invitation for Bid (IFB): Formal bidding documents inviting suppliers to submit pricing for goods or services.

Request for Quotation (RFQ): Informal request to suppliers to provide quotes on specific goods or services.

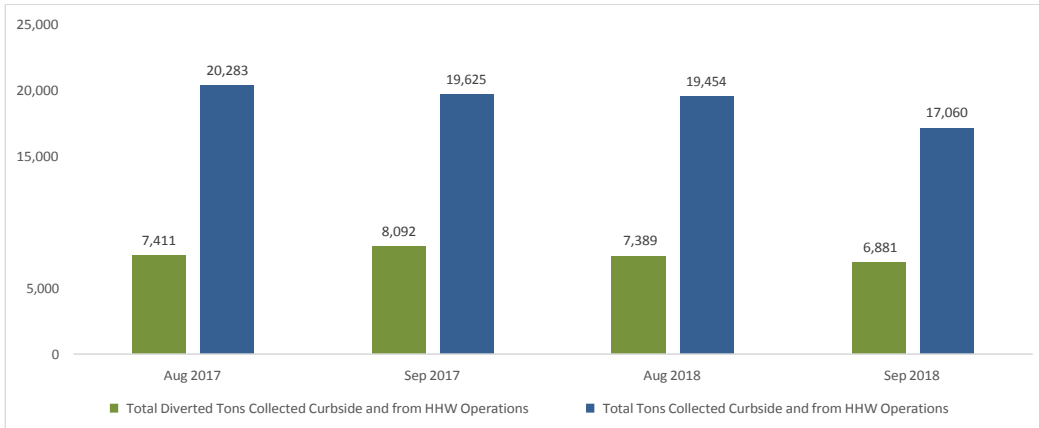
Request for Qualifications (RFQS): Formal solicitation used when qualifications are the main criteria for professional services.

Request for Information (RFI): Used to obtain industry input, feedback, or reactions from potential suppliers prior to issuing a solicitation.

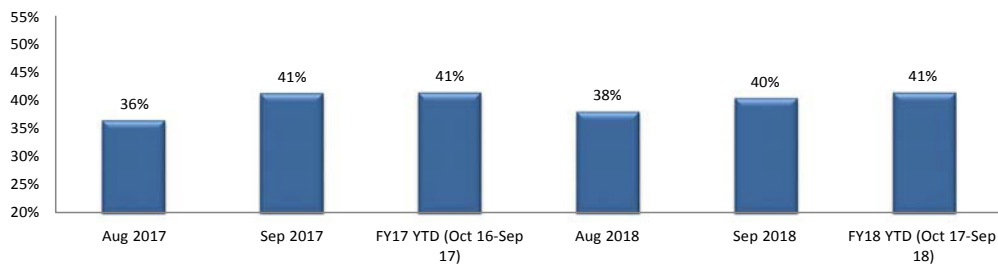
Austin Resource Recovery Curbside Collection and HHW Operations

		LAST FISCAL YEAR					CURRENT FISCAL YEAR			
		FY 2016	FY 2017	Aug 2017	Sep 2017	FY17 YTD (Oct 16-Sep 17)	Aug 2018	Sep 2018	FY18 YTD (Oct 17-Sep 18)	FY 2018 Goal
Description of Services										
Tons Disposed	Tons of curbside Trash	129,266	131,815	11,636	10,316	131,815	10,777	9,619	128,829	133,208
	Tons of Curbside Bulk Disposed	11,869	11,179	1,197	1,178	11,179	1,232	527	10,073	10,900
	HHW Operations Tons Disposed	468	471	39	39	471	56	33	528	476
	Total Disposed Tons Collected Curbside and from HHW Operations	141,603	143,465	12,872	11,533	143,465	12,065	10,179	139,430	144,584
	Estimated Tons of Curbside Recycling Residuals*	9,556	9,471	871	810	9,471	1,040	925	10,642	9,927
*Estimated tons of curbside recycling processed by vendors as residual - based on bi-annual sample route audit										
Tons Diverted	Tons of curbside recycling	58,879	58,705	5,080	4,730	58,705	4,972	4,514	58,723	60,000
	HHW Operations Tons recycled/reused	436	465	43	40	465	48	47	469	498
	Tons of Curbside Yard Trimmings	32,605	34,316	1,609	2,408	34,316	1,621	1,754	32,244	41,525
	Tons of Curbside Bulk Recycled	276	161	9	14	161	9	4	192	160
	Tons of Curbside Brush Collected	8,460	7,367	642	889	7,367	725	526	6,292	8,000
	Tons of Curbside Textiles Collected	N/A	245	12	11	245	15	10	159	171
	Tons of Carts Recycled	150	197	17	0	197	0	26	154	250
	Total Diverted Tons Collected Curbside and from HHW Operations	100,807	101,456	7,411	8,092	101,456	7,389	6,881	98,232	110,604
	Tons of Curbside Compost Collected**	4,123	5,069	304	350	5,069	1,132	1,179	14,414	20,221
***Tons of Curbside Compost Collected" is included in the "Tons of Yard Trimmings Collected"										
Total Tons Collected Curbside and from HHW Operations		242,409	244,921	20,283	19,625	244,921	19,454	17,060	237,662	255,188
Percent of Waste Stream Diverted by Curbside and HHW Operations		41.55%	41.32%	36.45%	41.20%	41.32%	37.98%	40.33%	41.33%	43.34%
NEW* - Estimated Percent of Curbside Collected Materials Diverted from Landfills by ARR		37.60%	37.51%	32.16%	37.05%	37.51%	32.56%	34.80%	36.81%	38.20%
Pounds of Trash collected per customer per pickup		25.83	26.09	27.57	24.38	26.09	24.65	22.07	24.84	25.89
Number of Trash and Recycling Customers		192,476	194,357	194,792	195,324	194,357	201,764	201,150	199,448	197,876
Pounds of Recycled materials collected per customer per pickup (every other week)		23.69	23.38	24.14	22.45	23.38	22.89	20.84	22.78	23.61
Pounds of Yard Trimmings collected per customer per week		6.56	6.83	3.82	5.72	6.83	3.73	4.05	6.25	8.17
Number of Yard Trimmings/Organics Customers		191,156	193,110	194,255	194,446	193,110	200,515	199,923	198,325	195,520
Number of PAYT pickups		52	52	4.33	4.33	52	4.33	4.33	52	52
Total tons of Dead Animals Collected from COA rights-of-way and the animal shelter		39	44	3	3	44	2	2	36	42

Austin Resource Recovery Curbside Collection and HHW Operations



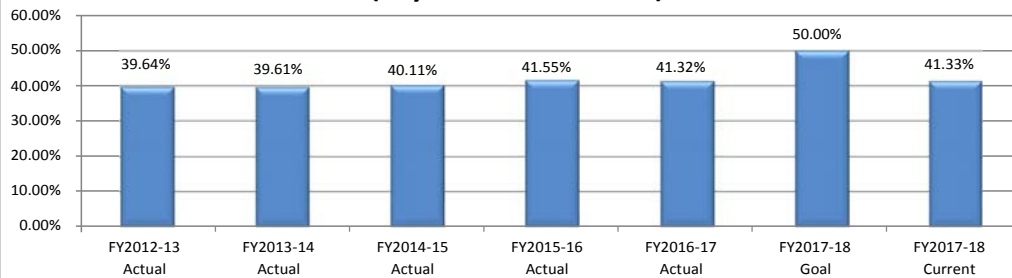
Percent of Waste Stream Diverted from Curbside and HHW Operations



Reporting Status and Diversion Results for All Categories of Waste Generation							
Category of Waste Generation	FY2012-13 Actual	FY2013-14 Actual	FY2014-15 Actual	FY2015-16 Actual	FY2016-17 Actual	FY2017-18 Goal	FY2017-18 Current
Residential Waste Diversion (city serviced accounts)	39.64%	39.61%	40.11%	41.55%	41.32%	50.00%	41.33%
Community Diversion Rate	*	*	*	42.02%	*	*	*

*As prescribed in the Austin Resource Recovery Master Plan, the Department will conduct a detailed waste assessment study every five years to determine progress toward our Zero Waste goal. The first such study was published in 2015 and is titled Austin's 2015 Community Diversion Study. The study focused on estimating diversion from both ARR-served properties and commercial properties. Commercial properties include retail businesses, food service establishments, professional offices, industrial properties, institutional facilities, government facilities, and multifamily properties five units and larger. According to Austin's 2015 Community Diversion Study, Residential Waste Diversion Rate (city serviced accounts) represents approximately 15% and the Community Diversion Rate (accounts serviced by private waste haulers) represents approximately 85% of the total citywide wastage.

Residential Waste Diversion (city serviced accounts)



Category of Waste Generation	CY 2015	CY 2016	CY 2017
Commercial Tons Landfilled**	1,062,012	1,152,661	1,708,484
Commercial Tons Recycled**	550,515	360,244	722,573
Commercial Organics Tons**	556,099	206,165	97,173

** Numbers reported here are compiled from self-reported data submitted by licensed private waste haulers via semi-annual tonnage reports required under Section 15-6-3 of the City Code on a calendar year basis and as such, ARR does not attest to the accuracy of these amounts. These numbers reflect data from 100-200 licensed haulers (number of haulers varies over time), and include haulers servicing dumpsters, roll-offs, construction and demolition debris, landscaping debris, and metal scrap. These numbers do not reflect all data sources included in Austin's 2015 Community Diversion Study.

Zero Waste Advisory Commission - October 15th, 2018
Single Stream Recycling Statistical Report
FY18: October 2017 - September 2018
Texas Disposal Systems (TDS) and Balcones Resources, Inc. (BRI)

Month and Year	Contractor	Tons Delivered	Contractor Payments			Net Value to the City	Landfill Cost Avoidance	
			Revenue	Processing Cost	Net Amount Due/(Owed)	\$ per ton value	Cost Per Ton	Total
October 2017	TDS	2,189.11	\$115,337	\$198,114	(\$82,777)	(\$37.81)	\$21.99	\$48,139
	BRI	2,619.00	\$68,017	\$194,521	(\$126,504)	(\$48.30)	\$21.99	\$57,592
	Total	4,808.11	\$183,354	\$392,635	(\$209,281)			\$105,730
November 2017	TDS	1,836.05	\$83,079	\$166,163	(\$83,084)	(\$45.25)	\$21.99	\$40,375
	BRI	3,135.81	\$75,579	\$224,469	(\$148,890)	(\$47.48)	\$21.99	\$68,956
	Total	4,971.86	\$158,658	\$390,632	(\$231,974)			\$109,331
December 2017	TDS	1,905.47	\$86,947	\$172,445	(\$85,498)	(\$44.87)	\$21.99	\$41,901
	BRI	3,076.03	\$77,502	\$221,181	(\$143,679)	(\$46.71)	\$21.99	\$67,642
	Total	4,981.50	\$164,449	\$393,626	(\$229,177)			\$109,543
January 2018	TDS	2,469.47	\$114,108	\$223,487	(\$109,379)	(\$44.29)	\$21.99	\$54,304
	BRI	3,051.51	\$77,835	\$224,382	(\$146,547)	(\$48.02)	\$21.99	\$67,103
	Total	5,520.98	\$191,943	\$447,869	(\$255,926)			\$121,406
February 2018	TDS	1,731.32	\$75,379	\$156,684	(\$81,305)	(\$46.96)	\$21.99	\$38,072
	BRI	2,573.31	\$62,284	\$191,825	(\$129,541)	(\$50.34)	\$21.99	\$56,587
	Total	4,304.63	\$137,663	\$348,509	(\$210,846)			\$94,659
March 2018	TDS	1,779.68	\$73,714	\$161,061	(\$87,347)	(\$49.08)	\$21.99	\$39,135
	BRI	3,209.71	\$69,386	\$228,534	(\$159,148)	(\$49.58)	\$21.99	\$70,582
	Total	4,989.39	\$143,100	\$389,595	(\$246,495)			\$109,717
April 2018	TDS	2,044.21	\$90,088	\$185,001	(\$94,913)	(\$46.43)	\$21.99	\$44,952
	BRI	2,706.52	\$57,099	\$199,685	(\$142,586)	(\$52.68)	\$21.99	\$59,516
	Total	4,750.73	\$147,187	\$384,686	(\$237,499)			\$104,469
May 2018	TDS	2,003.78	\$83,448	\$181,342	(\$97,894)	(\$48.85)	\$21.99	\$44,063
	BRI	3,272.99	\$61,180	\$232,014	(\$170,835)	(\$52.20)	\$21.99	\$71,973
	Total	5,276.77	\$144,628	\$413,357	(\$268,729)			\$116,036
June 2018	TDS	1,841.88	\$76,941	\$166,690	(\$89,749)	(\$48.73)	\$22.52	\$41,479
	BRI	2,908.47	\$61,463	\$211,600	(\$150,137)	(\$51.62)	\$22.52	\$65,499
	Total	4,750.35	\$138,403	\$378,290	(\$239,887)			\$106,978
July 2018	TDS	2,181.99	\$93,506	\$197,470	(\$103,965)	(\$47.65)	\$22.52	\$49,138
	BRI	2,647.37	\$57,551	\$196,195	(\$138,644)	(\$52.37)	\$22.52	\$59,619
	Total	4,829.36	\$151,056	\$393,665	(\$242,609)			\$108,757
August 2018	TDS	1,744.47	\$74,056	\$157,875	(\$83,818)	(\$48.05)	\$22.52	\$39,285
	BRI	3,227.14	\$67,785	\$229,492	(\$161,707)	(\$50.11)	\$22.52	\$72,675
	Total	4,971.61	\$141,841	\$387,367	(\$245,526)			\$111,961
September 2018	TDS	1,822.95	\$74,789	\$164,977	(\$90,188)	(\$49.47)	\$22.52	\$41,053
	BRI	2,668.91	\$55,392	\$197,465	(\$142,074)	(\$53.23)	\$22.52	\$60,104
	Total	4,491.86	\$130,180	\$362,442	(\$232,262)			\$101,157
FY18 Totals		58,647.15	\$1,832,463	\$4,682,672	(\$2,850,210)			\$1,299,744