



To: Zero Waste Advisory Commission

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

Date: October 10, 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*
 - *The HEB Center at Cedar Park has been contacted, and meetings have been scheduled in October*
 - *ACC has been contacted, and we are awaiting a response*
 - *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



ARR Solicitations Update
ZWAC Meeting Date: October 10, 2018

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

1. **Materials Exchange:** (RFP) – Contractor to utilize and manage an existing web-based database Materials Exchange program or design, develop, implement, and manage a new Materials Exchange program that is used by Austin area entities (e.g., businesses, contractors, schools, non-profits, manufacturers) as a tool and service to enable those entities to work together to match unwanted or underutilized by-products (new, used and reclaimed) as resources for new products and processes.
Current Contract
Documents: https://www.austintexas.gov/financeonline/contract_catalog/OCCViewMA.cfm?cd=MA&dd=1500&id=NA140000086

No Requests for Information (RFI) scheduled to be issued in the next 30 days:

ARR New Contracts for Review (in alphabetical order):

1. **Pump-Out, Hauling, Disposal, and Maintenance Services for Commercial Truck Wash Grit Traps, Septic Tanks, and Drain Fields** [IFB 1500 SLW1005](#): This contract is for pumping, hauling, disposal, and inspection services for the grit traps located at ARR's Kenneth Gardner Service Center (KGSC) at 4108 Todd Lane, Austin, TX, and one septic tank and two drain fields located at ARR's closed landfill at 10108 FM 812, Austin, TX 78719. Austin Resource Recovery recommends awarding to two bidders, Magna Flow Environmental and Wastewater Transport Services, LLC, line by line. The recommended contractors, Magna Flow Environmental and Wastewater Transport Services, LLC, were the only bidders on this solicitation that was sent out to all registered vendors under the assigned commodity. Both vendors satisfy all the requirements in accordance with the City's specifications. They have the staff, knowledge, and expertise to provide this service and support the City. If the contract is not secured, the City risks back up, odor issues, and health issues for City employees.
2. **Zero Waste Youth Education Program** [RFP 1500 MHJ3001](#): The Contractor will provide outreach and educational services for students from kindergarten through 12th grade. This contract will provide an interactive and educational outreach program that focuses on Zero Waste and sustainability, in support of the City's Zero Waste initiative. An evaluation team with expertise in this area evaluated the proposals and scored Keep Austin Beautiful as the best to provide these services based on personnel qualifications, sample materials and concept, success evaluation plan, and total cost. The current contract expired in

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.

July 2018. Austin Resource Recovery does not have the staff necessary to perform these services. For the past several years, local schools have utilized the zero waste curriculum to increase education and awareness about the City's zero waste goal and associated services. Educating students at all levels helps provide outreach not only to the students – but also their families – about curbside recycling, composting and more. Providing this curriculum for local schools is a strategic way to further educate the community about zero waste.

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.

Zero Waste Advisory Commission - September 17th, 2018

Single Stream Recycling Statistical Report

FY18: October 2017 - August 2018

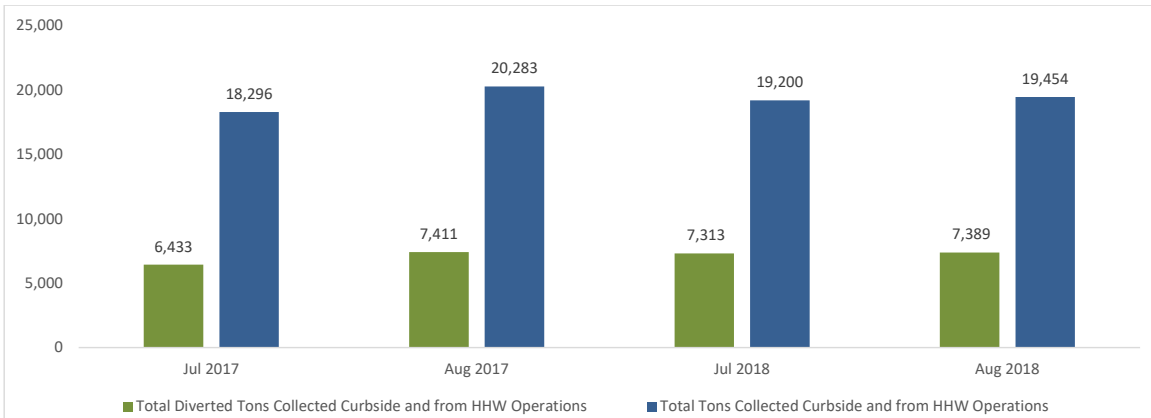
Texas Disposal Systems (TDS) and Balcones Resources, Inc. (BRI)

Month and Year	Contractor	Tons Delivered	Contractor Payments			Net Value to the City \$ per ton value	Landfill Cost Avoidance	
			Revenue	Processing Cost	Net Amount Due/(Owed)		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
FY18 Totals		54,155.29	\$1,702,282	\$4,320,230	(\$2,617,948)			\$1,198,587

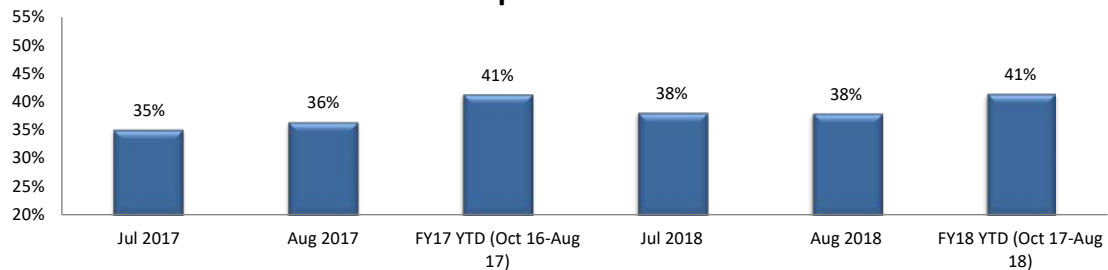
Austin Resource Recovery Curbside Collection and HHW Operations

		LAST FISCAL YEAR					CURRENT FISCAL YEAR			
Description of Services		FY 2016	FY 2017	Jul 2017	Aug 2017	FY17 YTD (Oct 16-Aug 17)	Jul 2018	Aug 2018	FY18 YTD (Oct 17-Aug 18)	FY 2018 Goal
Tons Disposed	Tons of curbside Trash	129,266	131,815	10,565	11,636	121,499	10,660	10,777	119,210	133,208
	Tons of Curbside Bulk Disposed	11,869	11,179	1,256	1,197	10,001	1,173	1,232	9,546	10,900
	HHW Operations Tons Disposed	468	471	42	39	431	53	56	494	476
	Total Disposed Tons Collected Curbside and from HHW Operations	141,603	143,465	11,863	12,872	131,931	11,886	12,065	129,251	144,584
	Estimated Tons of Curbside Recycling Residuals*	9,556	9,471	780	871	8,661	980	1,040	9,718	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	4,553	5,080	53,974	4,854	4,972	54,209	60,000
	HHW Operations Tons recycled/reused	436	465	44	43	425	47	48	422	498
	Tons of Curbside Yard Trimmings	32,605	34,316	1,322	1,609	31,908	1,869	1,621	30,490	41,525
	Tons of Curbside Bulk Recycled	276	161	25	9	147	22	9	188	160
	Tons of Curbside Brush Collected	8,460	7,367	474	642	6,478	504	725	5,766	8,000
	Tons of Curbside Textiles Collected	N/A	245	15	12	235	18	15	149	171
	Tons of Carts Recycled	150	197	0	17	197	0	0	128	250
	Total Diverted Tons Collected Curbside and from HHW Operations	100,807	101,456	6,433	7,411	93,364	7,313	7,389	91,351	110,604
	Tons of Curbside Compost Collected**	4,123	5,069	241	304	4,719	1,271	1,132	13,234	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	18,296	20,283	225,296	19,200	19,454	220,602	255,188
Percent of Waste Stream Diverted by Curbside and HHW Operations		41.55%	41.32%	35.11%	36.45%	41.33%	38.09%	37.98%	41.41%	43.34%
NEW* - Estimated Percent of Curbside Collected Materials Diverted from Landfills by ARR		37.60%	37.51%	30.80%	32.16%	37.55%	32.91%	32.56%	36.97%	38.20%
Pounds of Trash collected per customer per pickup		25.83	26.09	24.94	27.57	26.24	24.44	24.65	25.10	25.89
Number of Trash and Recycling Customers		192,476	194,357	195,538	194,792	194,269	201,356	201,764	199,293	197,876
Pounds of Recycled materials collected per customer per pickup (every other week)		23.69	23.38	21.65	24.14	23.47	22.39	22.89	22.96	23.61
Pounds of Yard Trimmings collected per customer per week		6.56	6.83	3.14	3.82	6.94	4.31	3.73	6.46	8.17
Number of Yard Trimmings/Organics Customers		191,156	193,110	194,168	194,255	192,989	200,125	200,515	198,179	195,520
Number of PAYT pickups		52	52	4.33	4.33	47.66	4.33	4.33	47.66	52
Total tons of Dead Animals Collected from COA rights of-way and the animal shelter		39	44	4	3	41	3	2	34	42

Austin Resource Recovery Curbside Collection and HHW Operations



Percent of Waste Stream Diverted from Curbside and HHW Operations



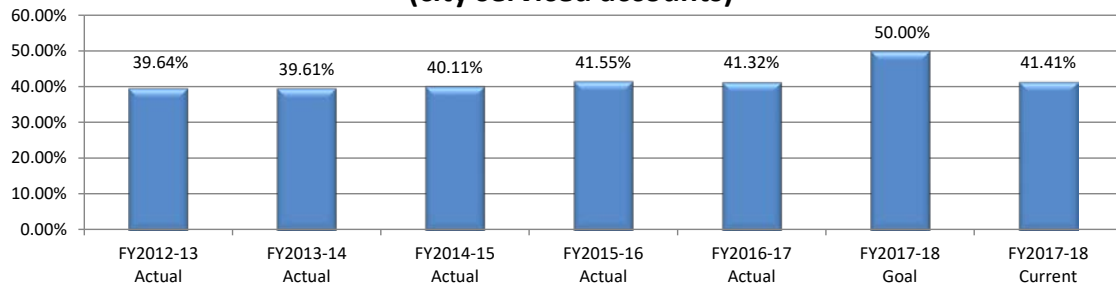
Reporting Status and Diversion Results for All Categories of Waste Generation

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%	41.41%
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-serviced 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.

**Numbers reported here are compiled from data submitted by private waste haulers via the semi-annual tonnage reports required under Section 15-6-3 of the City Code. Numbers reported for CY17 are as of 4/9/18, and corrections for past years are also pending.

Residential Waste Diversion (city serviced accounts)



Category of Waste Generation	CY 2013	CY 2014	CY 2015	CY 2016	CY 2017
Commercial Tons Landfilled**	Past data is currently being compiled				1,708,484
Commercial Tons Recycled**					722,573
Commercial Organics Tons**					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.