

Session #3

Tracking Progress



Session #3 – Tracking Progress

School Name: University of North Carolina at Chapel Hill

THE UNIVERSITY

at CHAPEL HILL

Setting: Public University in town of Chapel Hill Population (FTE): 38,738

Recycling Reports to: Business Operations -> Facilities Services

Programs/Tools Used : Excel



Session #3 – Tracking Progress

Metrics Reported: Total Waste, Recycling Rate, Compost Rate, Recovery Rate (Recycling + Compost)

Agencies/Orgs Report to: Sustainability Office, NC DENR, AASHE Stars

Most Recent Annual Recycling Rate: 41% (organics, fiber, commingled)

Comprehensive Diversion Rate: 47% (all diverted materials)

Per Capita: .28 tons (560 pounds) of waste/FTE



The Big Questions



...And what happens when you can't get the information you need?



Why?

To evaluate progress over time

Easy access to information for decision making

Communicate information internally and externally



What?

April	Year To Date (in tons)					
	14-15	13-14	% increase or decrease			
Trash	4,718	4,807	-2%			
Recycling*	3,241	4,277	-24%			
Compost	607	588	3%			
Total Waste	8,567	9,087	-6%			
% Recovered	44.9%	47.1%	-2.2%			



C/D = Construction & Demolition: scrap metal, pallets and clean wood waste, concrete and block, carpet, and ceiling tiles Containers = commingled bottles and cans (aluminum cans, glass bottles [green/blue, clear, brown, plastic bottles, steel cans]) Fiber = corrugated cardboard, office paper (white, office fiber), confidential paper, magazines and newspaper, hardback books and mixed paper Organic = food waste, used cooking oil, yard waste, trees, firewood, and sawdust (NOTE: some of these materials are recycled and some are composted)

COLLEGE & UNIVERSITY RECYCLING COALITION

Other = auto batteries, auto oil, brake cleaning fluid, transformer oil, freon, printer cartridges, fluorescent lights, tires and white goods Single Stream = combines Containers and Fiber into a single sort.





Who?

Departments: Grounds, EHS, Surplus, Central Receiving

Contractors: Waste Industries, Sonoco, Shimar Recycling Services



When?

Ongoing collection process

For UNC = Monthly



How?

Forms (Grounds, Surplus)





Emails (EHS, Dining Services)

Invoices (contract requirements)



How?

Excel spreadsheets and workbooks

Re-Trac (learning curve)



When the Data Doesn't Come Easy...

Relationships with individuals and departments

Following up with results and proving the reporting effort is worth it

Fostering communication and opportunities for collaboration



Session #3 – Tracking Progress

School Name: University of Virginia

Setting: Public, Suburban Campus

Population (FTE): 38,334



Recycling Reports to: Office for Sustainability>
Facilities Management – Operations > VPMB **Programs/Tools Used :** Excel



Session #3 – Tracking Progress

- Metrics Reported: Diversion Rate, Recycling Rate
- Agencies/Orgs Report to: AASHE STARS, VPMB, Recyclemania, Local Planning District Most Recent Annual Recycling Rate: 32% Comprehensive Diversion Rate: 53% Per Capita: 8.44 lbs/capita
 - COLLEGE & UNIVERSITY RECYCLING COALITION

The University recycled 32% MSW in 2014, with a total diversion rate of 53%



2013 Waste Profile



	MATERIAL TYPE	Includes:	Quantity (Tons)
	MSW	Typical Solid Waste to Landfill	3462
	CRMSW	Clinical/Research MSW to Landfill	4071
e 1	Paper	Office and Residential Paper Diverted	980
Scol	осс	Corrugated Cardboard Diverted	446
	Compost	Organic Food Waste Diverted	633
	Beverage Containers	Aluminum, Plastic, Glass Diverted	158
		TOTAL TONS (2013)	9750

	MATERIAL TYPE	Includes:	Quantity (Tons)
	MERCI	Unused Medical Supplies Diverted	39
	Chemical Waste	Unused Lab Chemicals/Pesticide/etc. Diverted	35
	Lamps & Ballasts	Used Light Bulbs & Ballasts Diverted	21
	Tires	Used Tires Diverted	9
	Oil	Used Cooking/Lubrication Oil Diverted	14
2	Batteries	Used Batteries Diverted	15
Scope	Surplus Office Supplies	R.O.S.E. Program Diverted	7
	E-Cycling	Used Electronics Diverted	92
	Metals	Scrap Metal, Film, Silver Chips Diverted	205
	Coal Ash	Fly Ash & Bottom Ash Diverted	4418
	Pallets	Used Pallets Diverted	121
	RMW	Regulated Medical Waste to Landfill	370
	CDD	Construction & Demolition Debris (apx. 10% to Landfill)	1486
		TOTAL TONS (2013)	6832

2013 Waste Profile



	Includes:	Quantity (Tons)
	Municipal Solid Waste	3462
Landfill	Clinical & Research Solid Waste	4071
Coal Ash		4418
Wood	Pallets, Construction Waste	1607
Paper		980
Cardboard		446
Compost		633
RMW	Regulated Medical Waste	370
Metals	Scrap Metal, Film, Silver Chips	205
Bottles & Cans	Aluminum, Plastic, Glass	158
	MERCI, Chemical Waste, Lamp/Ballasts/Tires/Oil/Batteries,	
OTHER	Surplus Office Supplies, e-cycling	233

Waste Audit 2013 Waste Profile

Metals Bottles & OTHER RMW Cans 1%_ 2%_ 1% 1% Compost_ 4% Cardboard _ 3% Paper 6% Classroom/Office 25% Landfill Wood 45% 10% Clinical/Research 54% Residential 11% Dining Coal Ash 10% 27%

2013 Landfill by Customer

Waste Audit

Clinical/Research		Dining		Classroom/O	Classroom/Office		Residence Halls	
	Pounds		Pounds		Pounds		Pounds	
Landfill	3565	Landfill	75	Landfill	2060	Landfill	2280	
Paper	261	Paper	7	Paper	152	Paper	46	
Cardboard	800	Cardboard	0	Cardboard	200	Cardboard	200	
Compost	0	Compost	92	Compost	190	Compost	148	
Metals	0	Metals	2	Metals	275	Metals	4	
Bottles & Cans	186	Bottles & Cans	4	Bottles & Cans	169	Bottles & Cans	106	
Other	97	Other	0	Other	13	Other	0	
Cardboard 16% Paper 5%	Landfill 73%	Compost 51%		Metals 9% Compost 6% Cardboard 7% Paper 5%	Par 29 Landfill 67%	Compost 5% Cardboard 7%	andfill 82%	

Waste Audit 2013 Waste Profile



Recycling Saves Money

	Price	Per Ton
	2013	2015
Landfill Trash	-\$156.85	-\$170.15
White Paper	\$161.25	\$180.00
Office Paper	\$83.75	\$100.50
Residential Paper Mix	\$18.15	\$20.00
Cardboard	\$68.25	\$36.00
Aluminum	\$1,020.00	\$1,380.00
Plastic	\$20.00	\$20.00
Glass	-\$28.43	-\$38.43
Steel Cans	\$239.00	\$0.00
Scrap Metal	\$113.33	\$3.33

Recycling Saves Money 2013 Waste Profile



Recycling Saves Money 2013 Waste Profile

Potential Savings From Diversion

Recycling Saves Money

Potential Savings From Diversion

				Metals - \$22kBottles & Cans - \$79k
		CY2013		
	Actual	All Landfill	Max Diversion	
Landfill Cost	-\$1,239,579	-\$1,519,327	-\$997,374	
Recycling Income	\$237,153	\$112,693	\$359,916	Cardboard -
				STATK
Cost to UVA	-\$1,002,426	-\$1,406,634	-\$637,458	Paper - \$72k
Cost Difference	\$0	-\$404,208	\$364,968	

Data Challenges:

- Large reduction in RMW has greatly increased our MSW.
- How do we incorporate the downstream MRF?
 - If we include "second-tier" diversion, do we include "second-tier" losses?
- Much of "net" revenue is lost to shredding costs?
- Can we include all CDD?
- Track all revenues by commodity?

Session #3 – Tracking Progress

School Name: American University

Setting: Private, Urban Campus

Population (FTE): 14,684

Zero Waste Reports to: Facilities Management Programs/Tools Used : Excel

Session #3 – Tracking Progress

- Metrics Reported: Diversion Rate, Recycling Rate
- **Agencies/Orgs Report to:** AASHE STARS, ACUPCC, LEED
- **Comprehensive Diversion Rate:** 56% ?
- **Diversion Per Capita:** 140lbs/person/yr ?
- Total Waste Per Capita: 250lbs/person/yr ?

Waste Audits

45% of our waste

Organic Waste

- Carbon Containing
- Anything **once living**!

ORGANIC WASTE

How does waste travel? How are our weights derived?

End Point: AD/Compost Facilities

Recycling Facilities

Purchasing

Consumer Housekeeping Dining

Hauler

Pest Control

Count everything you can count

Track your extra efforts (e.g. movein, moveout)

Food	Composted	Ongoing Consumables	Exact
Yard	Composted	Ongoing Consumables	Estimated
Construction Debris	Landfilled	Facility Alterations	Exact
Construction Debris	Recycled	Facility Alterations	Exact
Construction Debris	Recycled	Ongoing Consumables	Exact
Trash	Landfilled	Ongoing Consumables	Exact
Batteries	Recycled	Ongoing Consumables	Exact
Commingled	Recycled	Ongoing Consumables	Exact
Cardboard	Recycled	Ongoing Consumables	Exact
Carpet	Recycled	Facility Alterations	Exact
Cooking Oil	Recycled	Ongoing Consumables	Estimated
Electronic	Recycled	Durable Goods	Exact
Flourescent Lamps	Recycled	Durable Goods	Exact
Mattresses	Recycled	Facility Alterations	Exact
Paper	Recycled	Ongoing Consumables	Exact
Scrap Metal	Recycled	Ongoing Consumables	Exact
S Tires	Recycled	Durable Goods	Estimated
Used Fluids	Recycled	Durable Goods	Estimated
Vehicle Batteries	Recycled	Durable Goods	Estimated
Clothes	Reused	Durable Goods	Exact
Furniture	Reused	Durable Goods	Estimated

12	4	A	В		с	D	E	F	G	Н
-	2	Meta	Metal, Plastic, Glass (MPG) LEED Category Ongoing Consumables							
	3	Metal, Plastic, Glass are collected in toters throughout the campus. During RecycleMania 2011, cardboard, mixed paper, commingled was internally picked up and hauled to World Recycling as a pilot for moving recycling duties in-house.								
	4	Approach te 2014	Approach to Tracking 2013- 2014 Plastic (#1-7), Metal, Glass are collected from green metal recycling bins located in academic, administrative, and residential buildings. These bins are also lined with clear plastic bags and ARAMARK housekeeping collects the bins every day. The bags are transferred to toters in the loading docks nearest to the buildings and are picked up by ARAMARK Housekeeping for academic/residence staging areas and in- house FM Recycling Staff for Residential Areas. Materials are then moved to dedicated MPG open top at Osborn. MPG open top is picked up on call by Progressive Waste and sent to recycling. Progressive provides monthly weights to Zero Waste Coordinator for tracking.							
	5	Approach te 2011	o Tracking 2012-	2012-201 building to toters are colle differen	2012-2011: Plastic (#1-7), Metal, Glass are collected from green metal recycling bins located in academic, administrative, and residential buildings. These bins are also lined with clear plastic bags and ARAMARK housekeeping collects the bins every day. The bags are transferred to toters in the loading docks nearest to the buildings and are picked up by CWI every Monday, Wednesday, and Friday. Weights of how much are collected are provided by CWI on a monthly basis and sent to the Zero Waste Coordinator for tracking. Glass is reported into three					
	6	· 19	Invoice Location	1		I:\Sust	ainability\Operations\Was	te\Zero Was	te Data\CWI	
	8	· 20	Assumptions			l:\Sustainab	ility\Operations\Waste\Ze	ro Waste Dat	a\World Recycling	
• •	9	· 22	Notes		Name	Date		Comment		
· 1 · 1 · 1	.0 .1 .2	· 23 · 24 · 25								
· 1 · 1 · 1	.3	· 26	Description of	Vaterials	Diversion Method	Hauler or Destination	Pick-up Date	Fiscal Year	Amount Generated (Tons)	Amount Generated (Pounds)
· 1	6	+ 40		CWI Cans 10 0.41 820.0						820.00
· 1	.7	41		CWI Plastic 10 0.36 7 CWI Glass 10 0.37 7						720.00
· 1	8	43			FV10 Total 10 114 2280 0					2280.00
· 1	9	•	Summary	Monthly	SummaryFY	STARS Cardboard	Paper Commingled	Scrap Metal	Trash Food Ya	rd 🕂 : 📢
· 2	20	READY				· · ·				▣ ▣
· 2	21	Assumpti	ons							

American University

Monthly Tonage: Categorized Waste Streams

Year: 2014

	Buliding:	Account Number	Waste Strean 🕂	May 💌	June 🔻	July 🔻	Aug 🔻	Sept 🔽	Oct 🔻	No
	Central Receiving:	150012965-0019	Compost							
	Central Receiving:	150012965-0019	Compost Landfill							
	Mary Gradon	150012965-0030	Compost							
	Mary Gradon	150012965-0030	Compost Landfill							
	Sports Centr Trash	150012965-0019	Compost							
	Sports Centr Trash	150012965-0019	Compost Landfill							
	Letts	150012965-0002	Landfill							
	Centennial	150012965-0006	Landfill							
	Asbury:	150012965-0004	Landfill							
	McDowell Trash	150012965-0005	Landfill							
	Cassell	150012965-0033	Landfill							
	Katzen Trash	150012965-0024	Landfill							
	Mary Gradon Trasl	150012965-0030	Landfill							
)	Osborn Trash	150012965-0001	Landfill							
	Central Receiving:	150012965-0019	Cardboard Recycling							
2	Osborn	150012965-0001	MPG Recycling							
3	McDowell Recycle	150012965-0005	Paper Recycling							
ŀ	Monthly Total		12	0.00	0	entre de la Constantion (Constantion (Consta]	

Make it easy for haulers, try to track contamination/rejection

Next steps

- What % of our contaminated waste is discarded/rejected from facilities?
- Plastics not always recycled, compostables not always composted
- How can we derive "true" diversion %
- It's not all about the numbers, it's also the story

Connect With Us!

Trash

Irgani

Paper Cardboard

Metal Plastic

Glass

American University is committed to strive for zero waste sent to landfills and incineration by 2020.

Connect with us!

(202)-885-2351
 zerowaste@american.edu
 american.edu/zerowaste
 facebook.com/zerowasteau
 twitter.com/zerowasteau
 pintrest.com/zerowasteau
 youtube.com/zerowasteau
 instagram.com/zerowasteau

RECYCLE

Metal

Plastic Glass

Sustainability Program

Tracking at MUSC

Christine von Kolnitz Cooley, ACEM, CRP Medical University of South Carolina <u>vonkolnc@musc.edu</u>

843-792-4066

Tracking

Recycling Bins & Customers

- Mobile ASI Software on Intermec Unit
- Data fed to Veri-shred software
 - Receive & view service orders
 - Scan & track bins
 - Enter notes & volume
 - Create invoices

Medical University of South Carolina

Daily Run Sheet for Wednesday, 11/05/2014 -- Route T2 - TRUCK 2 (BOX)

Sequence: Route, Assigned Primary Address Order, Service Order, Assigned Bin Location Stop, Bin Type, Action 11/04/2014 12:52 PM

Page 1

Route Summary:	te Summary: 5 Customers 7 Addresses 143 Stops 213 Bins		Action to Take			
Notes:					22 (96) Repla 1 (1C) Tip 88 (23) Tip 66 (30) Tip 36 (CN) Tip	ce
Customer P	rimary Address		Bin Location	# Bir	Bin Description	Action to Ta
1) Customer: 98240 Medical University Hos Children's HospitalP Charleston, SC 29425	S/O No. AAAAC spital Authority-MUH GS	SEE Contact: Free A	d Miles	٥		
		LEH 204 code	Ind correct	code 2	(CN) 23 GAL CAN BIN	Tip
		EH 212 LAB		1	(CN) 23 GAL CAN BIN	Tip
		EH 218 F cyto	ngenetics	2	(CN) 23 GAL CAN BIN	Tip
		EH 218 molec	ular	2	(CN) 23 GAL CAN BIN	Tip
		EH 219		1	(CN) 23 GAL CAN BIN	Tip
		EH 224 LAB		1	(CN) 23 GAL CAN BIN	Tip
	101117333	K EH 314		2	(CN) 23 GAL CAN BIN	Tip
	(23)	>EH 319		2	(CN) 23-CAL CAN BIN 9	🔿 Тір
	0	EH 324		3	(CN) 23 GAL CAN BIN	Tip
		EH 329		1	(CN) 23 GAL CAN BIN	Tip
THEL	1	EH 433 "Trash	room"	1	(CN) 23 GAL CAN BIN	Tip
STI - USHOA	14083	EH 508 STAFF	LOUNGE	2	(CN) 23 GAL CAN BIN	Tip
		EH 512	EN 512B itakeou	tof 1	(1C) 1 cubic yard	Tip
	5	IZHOEH 512 KITOH	EN 154994 cont.	Ral 1	(CN) 23 GAL CAN BIN	Tip
16764 mit n	loce in a	EH 526E	: odc	1	(CN) 23 GAL CAN BIN	Tip
we 10201 6200	61	EH 620 (knock) Pharmacy 167.30	> 18	(CN) 23 GAL CAN BIN	Tip
102/1/0-10	cide	EH 6MRM (EH	629)	. 3	(CN) 23 GAL CAN BIN	Tip
		EH 7TH FL EL	EV F	1	(CN) 23 GAL CAN BIN	Tip
		EH 847 NICU	code	2	(CN) 23 GAL CAN BIN	Tip
0		EH 850 NICU i	n patient area at windows	2	(CN) 23 GAL CAN BIN	Tip
0 D IUDEE	PICH FH 17	70 EH 853 NICU		. 2	(CN) 23 GAL CAN BIN	Tip
. 17000	LA LA S		tal Maintenance Shon	1	(CN) 23 GAL CAN BIN	Tip

Mobile ASI

Mobile ASI

MyMobiler	
<u><u> </u></u>	ls
🔄 🖩 🖌 🖒 🏠 🖷 🖫 🖣	L 🤉 🏷
ASI Mobile 3.0	☑ 井 🕂 🖻 8:28
Back	Orders 🧊
Bin	+ -
Action	Tip
Material	batteries 💽
Capacity	Full
Weight	Quantity Total Weight
0.0 X	1.0 = 0.0
Service Site	Onsite (@ Customer)
Bin Type: CN - 23	GAL CAN BIN 0/1
Tree View List Vie	ew Scan
Save	Menu

Veri-Shred Invoicing

Medical University of South Carolina 97 Jonathan Lucas Street Charleston, SC 29425

AC Dulladara Tauna		94	94010-ACRUTLEDGETOWER				
Rutledge Tower		Inv	VOICE NO.:	0003405			
Charleston SC 29425			voice Date:	11/01/2014			
		Dr Te Pri	rms: int Date:	UPON RECEIPT 11/07/2014 # 405			
		Amount	Tax	Subtotal			
10/01/2014 - 10/31/2014	Services:	2.875.95	0	.00 2.875.95			
	Total Services:			2.875.95			
				0.120103099993333			

Date: 10/03/2014	W/O: N040209	S/O: AAAACQRC	Rate	Qty Units	Amount	Tax	Total Amount
AC-Rutledge Tower	23-23 GA	3.8500	6.000	23.10	0.00	23.10	
AC-Rutledge Tower	30-30 GA	3.8500	6.000	23.10	0.00	23.10	
AC-Rutledge Tower	96-96 GA	3.8500	1.000	3.85	0.00	3.85	
AC-Rutledge Tower	TT-TRUC	KTRIP	0.0000	1.000	0.00	0.00	0.00
			Work Orde	r Total:	50.05	0.00	50.05
Date: 10/02/2014	W/O: N040263	S/O: AAAACQQO	Rate	Qty Units	Amount	Tax	Total Amount
AC-Rutledge Tower	1C-1CUB	3.8500	1.000	3.85	0.00	3.85	
AC-Rutledge Tower	CN-23 G/	3.8500	45.000	173.25	0.00	173.25	
AC-Rutledge Tower	O1-OUTE	3.8500	1.000	3.85	0.00	3.85	
AC-Rutledge Tower	TT-TRUC	KTRIP	0.0000	1.000	0.00	0.00	0.00
			Work Orde	r Total:	180.95	0.00	180.95
Date: 10/01/2014	W/O: N040288	S/O: AAAACQMS	Rate	Qty Units	Amount	Tax	Total Amount
AC-Rutledge Tower	02-2 GAL BIN		3.8500	2.000	7.70	0.00	7.70
AC-Rutledge Tower	23-23 GAL BIN		3.8500	25.000	96.25	0.00	96.25
AC-Rutledge Tower	30-30 GA	L CONSOLE	3.8500	53.000	204.05	0.00	204.05
AC-Rutledge Tower	96-96 GA	L BIN	3.8500	7.000	26.95	0.00	26.95
AC-Rutledge Tower	TT-TRUC	K TRIP	0.0000	1.000	0.00	0.00	0.00
			Work Orde	r Total:	334.95	0.00	334.95
Date: 10/08/2014	W/O: N040629	S/O: AAAACQVG	Rate	Qty Units	Amount	Tax	Total Amoun
AC-Rutledge Tower	23-23 GA	L BIN	3.8500	27.000	103.95	0.00	103.95
AC-Rutledge Tower	30-30 GA	L CONSOLE	3.8500	54.000	207.90	0.00	207.90
AC-Rutledge Tower	96-96 GA	LBIN	3.8500	8.000	30.80	0.00	30.80
AC-Rutledge Tower	TT-TRUC	K TRIP	0.0000	1.000	0.00	0.00	0.00
			Work Orde	r Total:	342.65	0.00	342.65
Date: 10/10/2014	W/O: N040707	S/O: AAAACQZS	Rate	Qty Units	Amount	Tax	Total Amount
AC-Rutledge Tower	23-23 GA	LBIN	3.8500	6.000	23.10	0.00	23.10
AC-Rutledge Tower	30-30 GA	L CONSOLE	3.8500	6.000	23.10	0.00	23.10
AC-Rutledge Tower	96-96 GA	LBIN	3.8500	1.000	3.85	0.00	3.85
AC-Rutledge Tower	TT-TRUC	K TRIP	0.0000	1.000	0.00	0.00	0.00
			Work Orde	r Total:	50.05	0.00	50.05

- Monthly
- Could use Quick Books for accounts receivable

Stats

Recycling Stats

- Started tracking with excel in 1995
- Started using Re-Trac in 2006
- Use mostly scale weight numbers

Who We Report To

- -RM
- DHEC
- E & F Admin & VP's Office

What We Report

- Annual recycled rate
- monthly basic recycled rate (Paper & PGS)
- % scheduled service completed weekly

Re-Trac

Re-TRAC TM - A	Recycling and Solid Waste Data Management Tool		trac.com/EditTransaction_MUSC_Others.pm?s 🔎 – 🔒 🖒 🐼 Edit I
Home My Account Christine von Kolnitz Campus-wide Campus-wide Create Report View Reports Export Data Comport Network Composed	Help Logout MUSC > Campus-wide Edit Invoice - 2014/15 Search Transactions Dumpster: 1001 Michigan Ave - Front End - SW Dumpster: 1001 Michigan Ave - Front End - SW This dumpster does not have any department billing allocation. Financial data won't be saved. Invoice #:	Re-TRAC™ - A Re Home My Account H ③ Christine von Kolnitz ④ ③ Christine von Kolnitz ④ ③ Campus-wide ④ ④ Campus-wide ● ④ Create Report ● ④ View Reports ● ④ Demographic ● ● Institutional ● ● Financial ● ③ Hazardous Waste ● ● Solid Waste ● ③ Users Set as homepage	ecycling and Solid Waste Data Management Tool Ielp Logout MUSC > Campus-wide Other Record Input Form - 2014/15 Search Transactions Date: July VIV2014V Material: Office Fiber Weight: PoundsV Revenue: Submit Submit
		Last Visited	

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COLLEGE & UNIVERSITY RECYCLING COALITION

Work Orders

- AIM System with I-phones
- Send WO to phone
- Employee closes WO on phone real time
- Track where employee is by WO
- KPI Hrs per WO

Work Orders

- KPI % Billable
- Take action to reduce call backs
 - Stay on schedule
 - Track list of multiple calls
 - Add another bin
 - Increase schedule
 - Keep staff informed
 - Reward staff

Your Story Through Data

- EPA warm model for emissions

http://epa.gov/epawaste/conserve/tools/warm/ind

<u>ex.html</u>

→ 🛃 htt	p://epa.gov/e	paw 🔎	- 0	PA Resource	e Conservati	on Wa ×				ĥ	* \$	3	
Steps 1 and 2. Baseline and Alternative Scenarios									^				
			Baseli	ne Scenario			Alternative Scenario						
	Material	Tons Recycled	Tons Landfilled	Tons Combusted	Tons Composted	Tons Generated	Tons Source Reduced	Tons Recycled	Tons Landfilled	Tons Combusted	Tons Composte		
	Aluminum Cans				N/A	0					N/A		
	Aluminum Ingot				N/A	0					N/A		
	Steel Cans				N/A	0					N/A		
	Copper Wire				N/A	0					N/A		
	Glass				N/A	0					N/A		
	HDPE				N/A	0					N/A		
	LDPE	N/A			N/A	0		N/A			N/A		
	PET				N/A	0					N/A		
	LLDPE	N/A			N/A	0		N/A			N/A		
	PP	N/A			N/A	0		N/A			N/A		
	PS	N/A			N/A	0		N/A			N/A		
	PVC	N/A			N/A	0		N/A			N/A		
	PLA	N/A				0		N/A					
	Corrugated Containers				N/A	0					N/A		
	Magazines / Third-class mail				N/A	0					N/A		
	Newspaper				N/A	0					N/A		
	Office Paper				N/A	0					N/A		
	Phonebooks				N/A	0					N/A		
	Textbooks				N/A	0					N/A		
	Dimensional Lumber				N/A	0					N/A		
	Medium- density Fiberboard				N/A	0					N/A		
	Food Waste											~	

