From: Sent:			
To: City Clerk's Office			
Subject: Attachn	·		
Well, I	am pushing it to ask you to now use yet another version for the documents.		
I apolo	gize.		
Paul			
Paul Q	 uinn		
	06-515-9165 <u>FirstNonViolence@pm.me</u>		
Sent w	ith <u>Proton Mail</u> secure email.		
On Tues	day, April 15th, 2025 at 4:12 PM, First-Nonviolence < FirstNonViolence@pm.me > wrote:		
F	Please use these updated documents for the Council.		
S	Sorry for the inconvenience.		
F 	aul		
	Paul Quinn Cell: 206-515-9165		
	Aail: <u>FirstNonViolence@pm.me</u>		
S	Sent with <u>Proton Mail</u> secure email.		
C	n Tuesday, April 15th, 2025 at 4:01 PM, First-Nonviolence < FirstNonViolence@pm.me > wrote:		
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Have a good night.

Thank you, City of Tacoma | City Clerk's Office 253.591.5505



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SMART Disposal

Proof Of Concept Plan

Objective: To prove the feasibility of weighing single-family residence containers when they're emptied for disposal without, in any way, slowing down or delaying the garbage truck pickup time.

- Weighing each container can be done with reasonable accuracy.
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Loadman / Creative Microsystems, Inc. 15224 SE Renton Issaquah Road Renton, WA 98059

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Agenda item for the Mtg

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Sent: To:	Tuesday, April 15, 2025 4:12 PM City Clerk's Office
Subject:	Re: Public Comment Virtual Tonight - Docs Attached Take #2
Attachments	2025.04.15-Proof of Concept Plan.docx; 2025.04.15-Tacoma City Council 2 Min Talk (2).docx
Please use	these updated documents for the Council.
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Cell: 206-5	
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Cont With I	Total Mail
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Sent: Tuesday, April 15, 2025 4:01 PM

To: City Clerk's Office

Subject: Re: Public Comment Virtual Tonight

Attachments: 2025.04.15-Diversion Analysis & Handouts.pdf; 2025.04.15-Proof of Concept Plan.docx

Follow Up Flag: Follow up Flag Status: Flagged

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Handout #1 - Analysis of City Tonnage and Diversion Rates

City of Tacoma YTD Jul-24 % of % of YTD Jul-23 YTD Jul-24 Tonnage (total all types) Total Total Single-Family 62,696 42% 63,751 43% Commercial 88,196 58% 84,603 **57%** 150,891 100% 148,354 100% Total

Tonnage (by how disposed)	YTD Jul-23	% of Total
Garbage (landfill)	120,137	80%
Recycle	14,295	9%
Food Scraps / Yardwaste	16,459	11%
Total	150,891	100%

YTD Jul-24	% of Total
116,446	78%
13,589	9%
18,320	12%
148,354	100%

Diversion Rate	YTD Jul-23	
Single-Family	42%	
Commercial	5%	
% of tot. waste put in recycling & food scraps / yardwaste bins	20.4%	

YTD Jul-24	vs Prior YR
44%	1.6%
5%	-0.1%
21.5%	1.1%

Missed Opportunity^	YTD Jul-23
Tons of Recycle & Food Scraps /	90 402 tons
Yardwaste in Landfill	80,492 tons



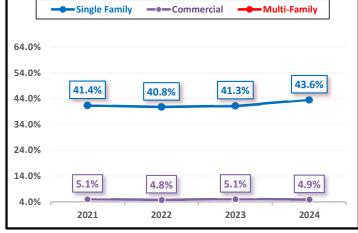
How Many Pickup Sites Do Not have a Recycle or a Food Scraps / Yardwaste Container

	Garbage Container	No Recycle Container
Single-Family	56,628	(642)
Commercial	4,643	(679)

No Food Scraps / Yardwaste Container	
	(2,356)
	(3,971)

TOTAL DIVERSION RATE 80.0% 70.0% 60.0% 40.0% 20.0% 20.0% 20.0% 20.0% 20.21 2022 2023 2024 2025 2026 2027 2028 2029 2030

DIVERSION RATES, NOT IMPROVING BY CATEGORY



Each month Tacoma sends to landfill 11146 tons that could have gone here





¾ of what's dumped in landfill could be diverted to recycling or compost^



[^] estimate based on King County 2022 Waste Characterization and Customer Survey; 2/3's of what is put in landfill could have been diverted

^{*} Roll-off tonnage data, if provided, are applied to primary-source category. Roll-off tonnage is typically generated by open-top dumpsters, at some businesses & apartments, and at sites of construction or home renovation.

Handout #2 - Recommended Actions to Improve City Diversion Rates

City of Tacoma

What We CAN do to Improve Diversion Rates NOW

CITYWIDE

- Include, in each newsletter sent to residents, the most current diversion statistics and tips to improve their rates of recycling and composting
- 2 Initiate a program to provide each household and business both a free indoor recycling container and a free countertop kitchen-scraps container (typically your disposal company will help defray costs)



Change pickup schedules to have garbage picked up every other week while retaining every week pickup for recycling and compost

SINGLE-FAMILY

- Pass a City Ordinance to require all 2356 remaining single-family homes to utilize a food scrap / yardwaste barrel
- Start a pilot with 100 residents where diversion advisors review weekly contents of trash, recycle, and compost containers and provide feedback to improve accuracy of material disposal

BUSINESS

- Pass a City Ordinance to require all businesses serving the public to make available a recycle container.

 This would include some of the 679 remaining businesses
- Require each business to work with the disposal company to assure all public-facing disposal containers match the colors used by residents. This would increase accuracy of disposal of materials.
- Pass a City Ordinance to require all businesses serving the public to make available a food scraps container.

 This would include some of the 3971 remaining businesses

MULTI-FAMILY

Pass a City Ordinance to require all 0 remaining multi-family locations to make available a food scrap / yardwaste container

What We CAN do to Improve Diversion Rates In the Near Future

In the next disposal contract or amendment, require this:

Require that each container picked up (a) be identified (using RFID tag or number already on container) and (b) be weighed before and after being dumped into the truck. This **SMART Disposal** program would facilitate improved diversion rates by pickup location. (this technology <u>already exists</u>, see handout #3)

Once in place, this program would help each person understand how they are doing in comparison to their neighbors (like PSE does now)

Handout #3 - SMART Disposal And Why We Need It City of Tacoma

Why should we make changes in landfill diversion now?

SMART Disposal, which weighs each container emptied by the disposal company, provides individual weight information to city residents and businesses, helping us move from a "toss and forget" mindset toward making better choices. We all know that feedback through measurement works because our water, electricity, and gas are all metered, helping us to moderate our use. We wouldn't want to pay for other people's use of water or power, yet we are now paying disposal fees based on container size and not weight. **This is not fair and fails to incentivize landfill diversion.** Would PSE ever try to base our energy bill on the size of our houses? Does the water district base charges on the size of the pipes entering our homes? It just makes sense that our disposal fees should be based on weight usage and not on container size. **SMART Disposal** effectively meters our actual use of the disposal utility, providing a basis for charges that are fairer.

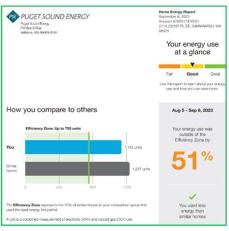
Why incentivize diverting waste from the landfill?

Landfill diversion is cheaper for haulers as they will be charged for less tonnage put in the landfill. These savings should be passed on to residents and businesses when they reduce trash and increase their recycling and composting. We should <u>reward</u> people for making better recycling and composting decisions.

How do we incentivize residents and businesses to divert from the landfill items which can be recycled or composted?

Let's provide each of us with information about how we're doing relative to comparable locations, just as PSE is already doing.







Is **SMART** Disposal even possible? Does the technology exist?

Yes! A company in Renton, WA, Loadman - Creative Microsystems, Inc., has the product right now.

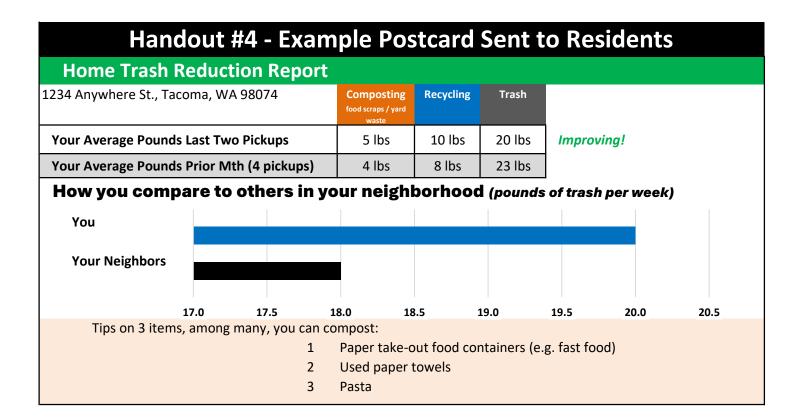
An article from WasteAvantage Magazine, titled, "Waste Haulers Get on Board With On-Board Weighing¹" shows that this approach is ready now. A

notable quote from this article: "Anything less than real-time feedback is inaccurate and prevents customers from making immediate changes."

SMART Disposal Benefits the City In Several Ways

- 1. Lowers landfill tonnage
- 2. Lowers greenhouse gas emissions
- 3. Lowers costs to residents and businesses
- 4. Lowers costs to disposal companies

¹ https://wasteadvantagemag.com/waste-haulers-get-on-board-with-on-board-weighing/





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