SOLID WASTE DEPARTMENT

City Council Retreat Kody Petillo, Director April 6, 2023



Outline

- Current Operations
 - Overview of Current Operations/Waste to Landfill
 - Current Landfill Status
 - Data on community usage at 948A including non-Wacoans
 - Estimate on remaining timeline and efforts to extend timeline
 - Capacity remaining at 948A
- Future Operations
 - How new landfill and transfer station would positively impact waste flow in our region
 - Timelines, budgets, and key milestones
 - Rate impacts

Current Operations

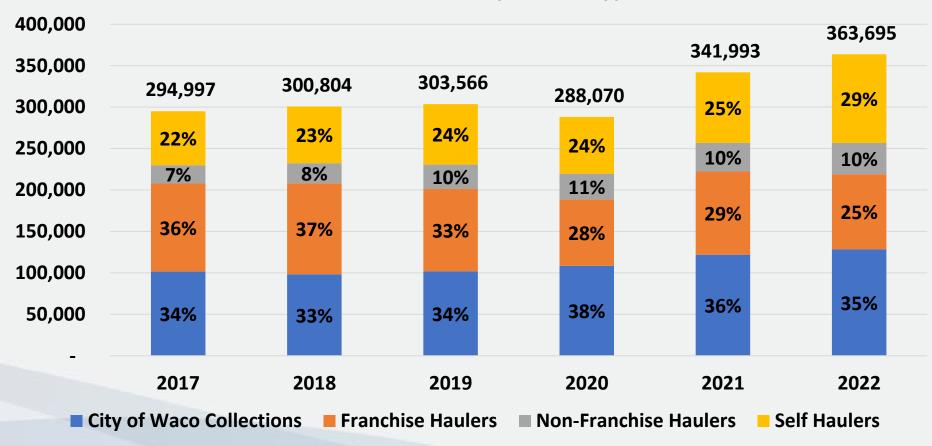


Current Solid Waste Operations



Usage of MSW 948A

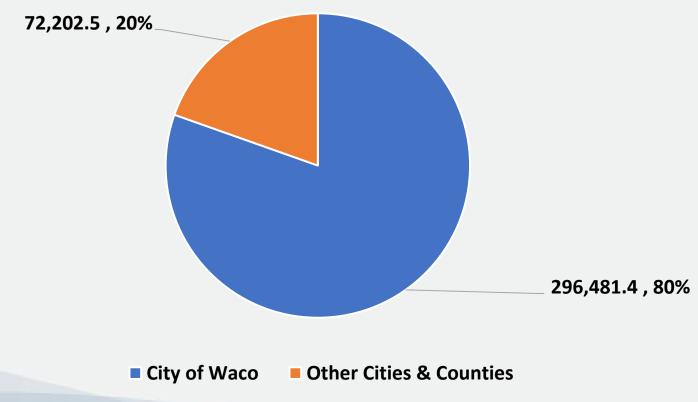
MSW 948A Tons by Hauler Type



The City of Waco does not have an exclusive franchise for commercial solid waste collections within the City of Waco.

Self Reported Usage of MSW 948A

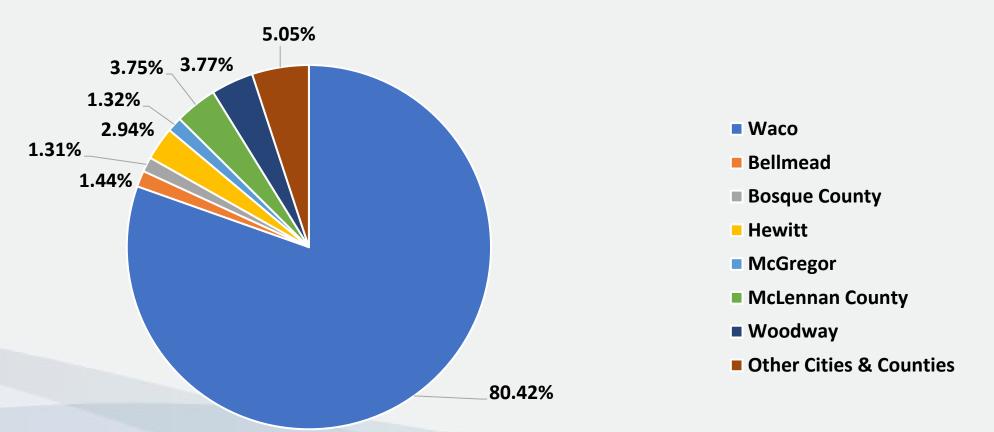
Usage of MSW 948A by City/County



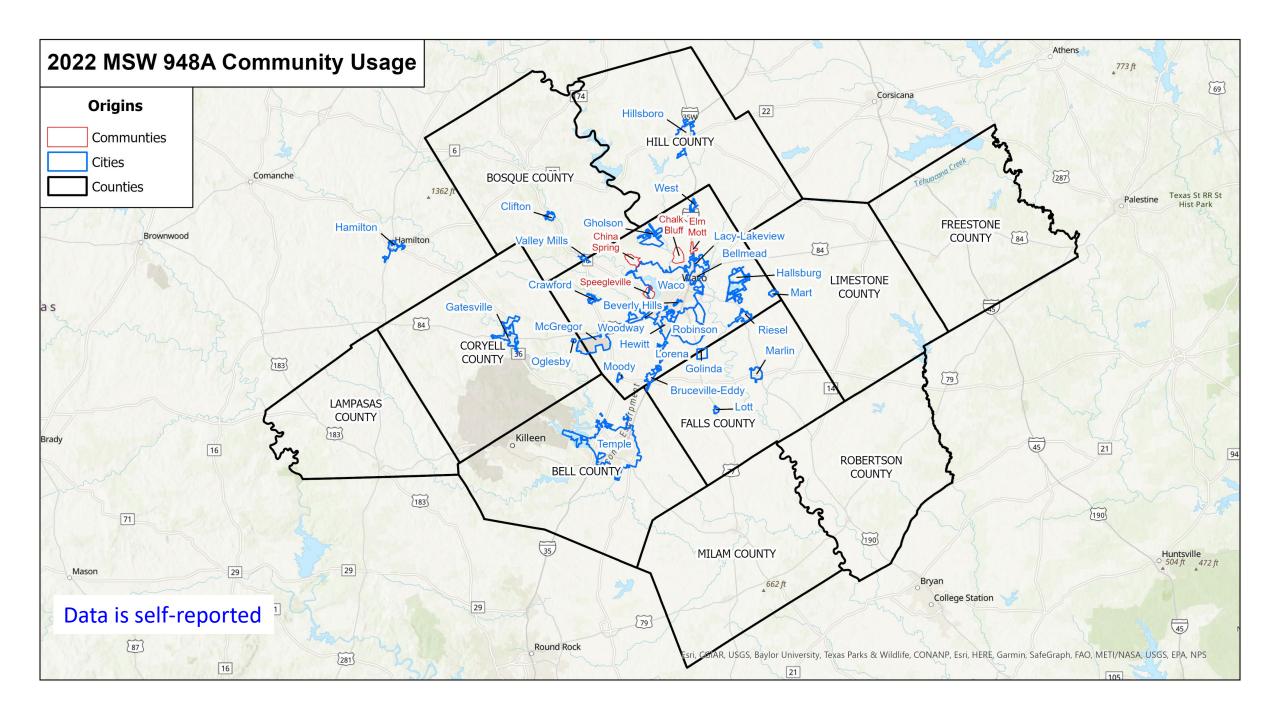
Note: Origin of waste is self-reported by haulers other than COW Solid Waste. Approximately 69% of waste not hauled by COW SW is *reportedly* from the City of Waco.

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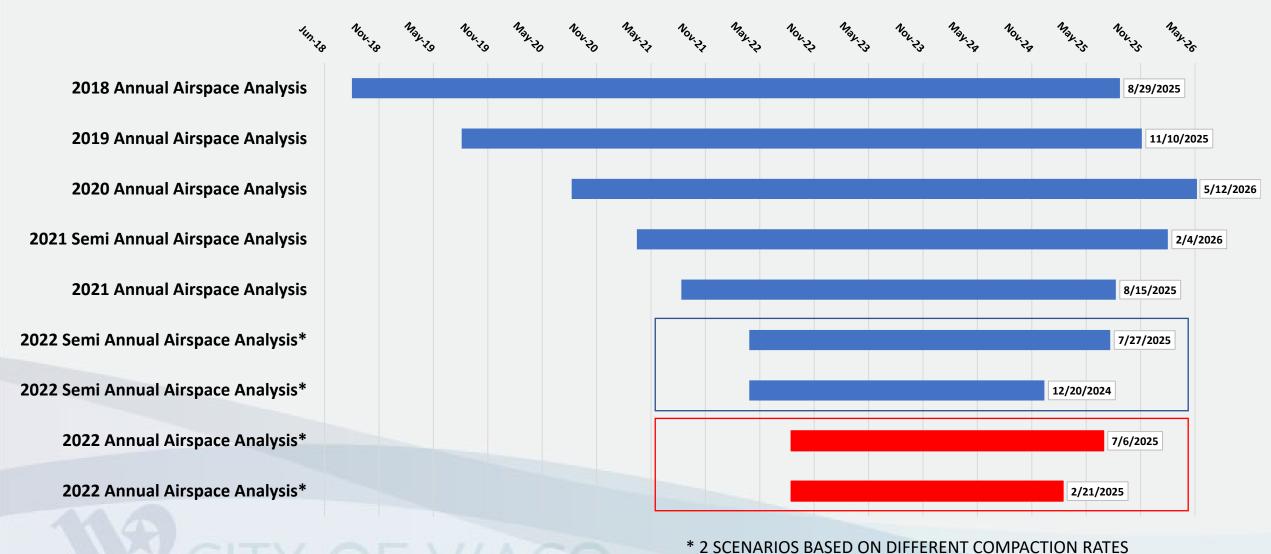
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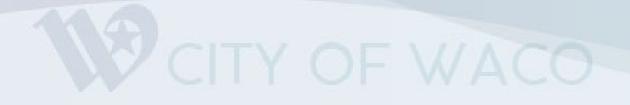
MSW 948A AIRSPACE CAPACITY



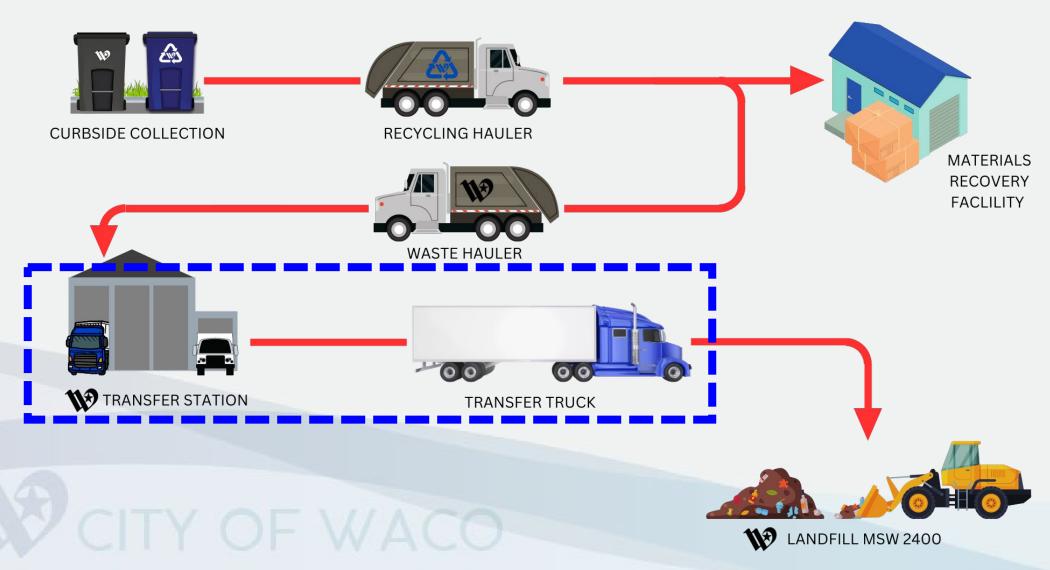
MSW 948A EFFORTS TO EXTEND LIFE

- Purchased large compactor in 2018 to improve compaction rate
- Replaced back-up compactor with larger compactor in 2022
- Increase in diversion
- Addition of mobile glass recycling and accepting styrofoam at Cobbs
- Increased fees to discourage construction and demolition material

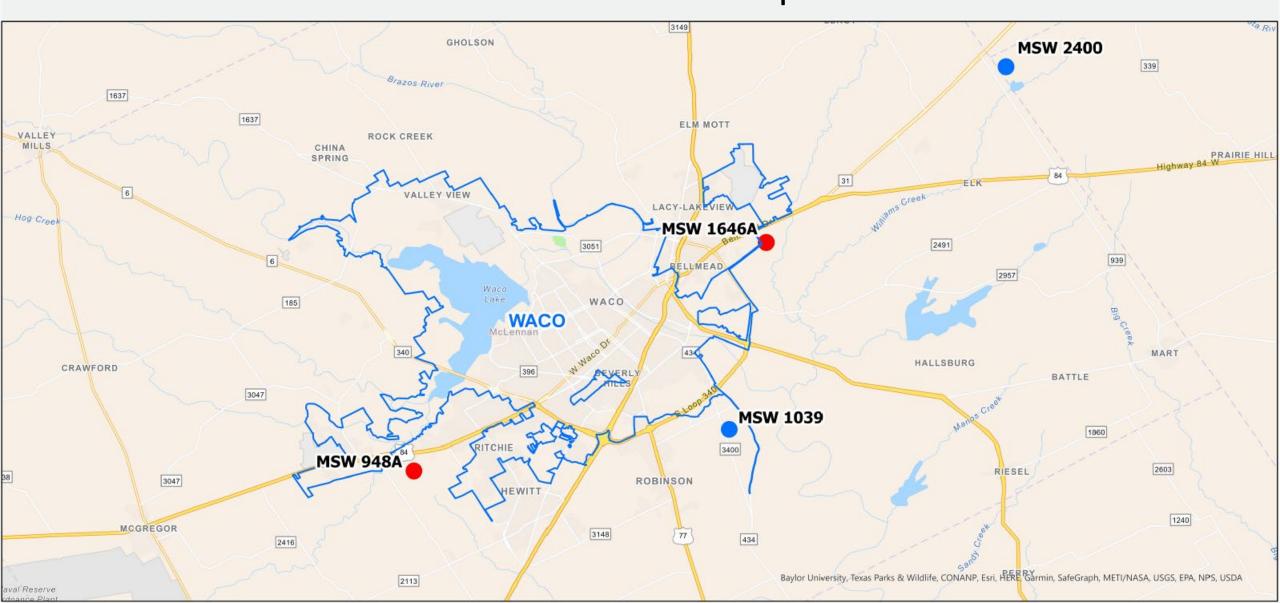
Future Operations



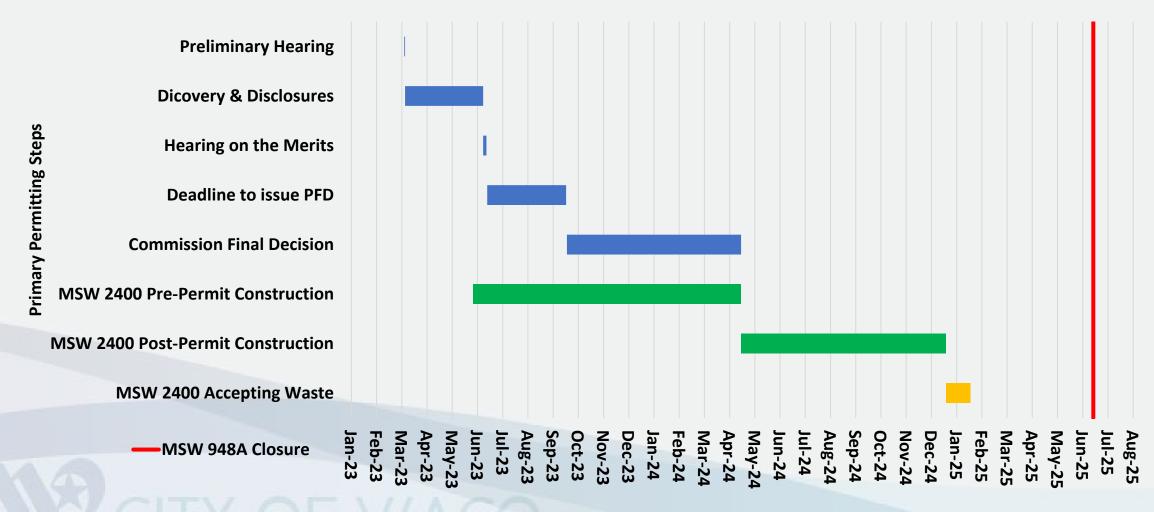
Future Solid Waste Operations



Future Solid Waste Operations



MSW 2400 Timeline & Key Milestones



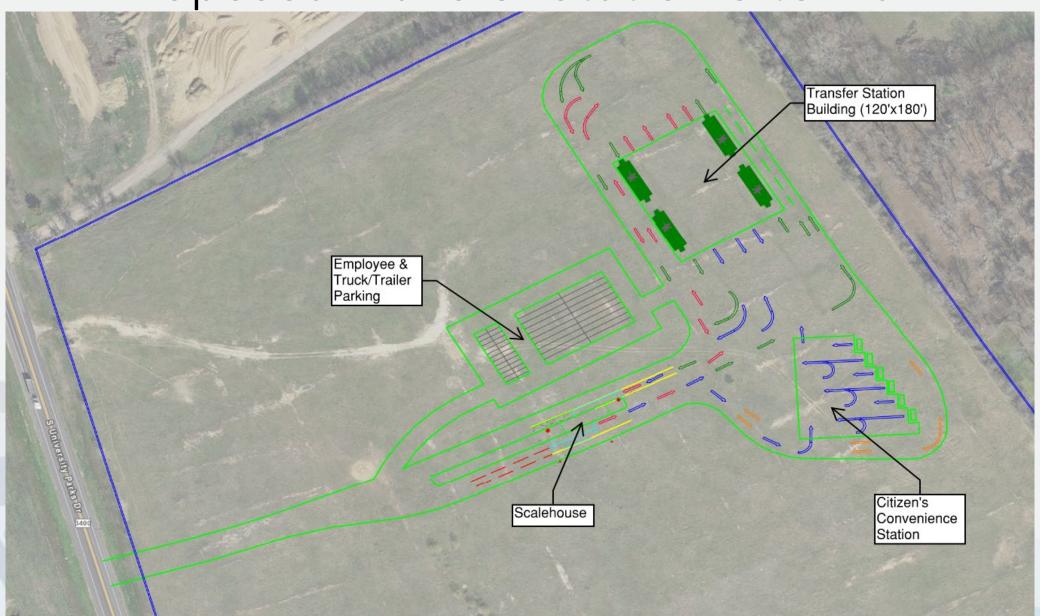
MSW 2400 Cost Estimates



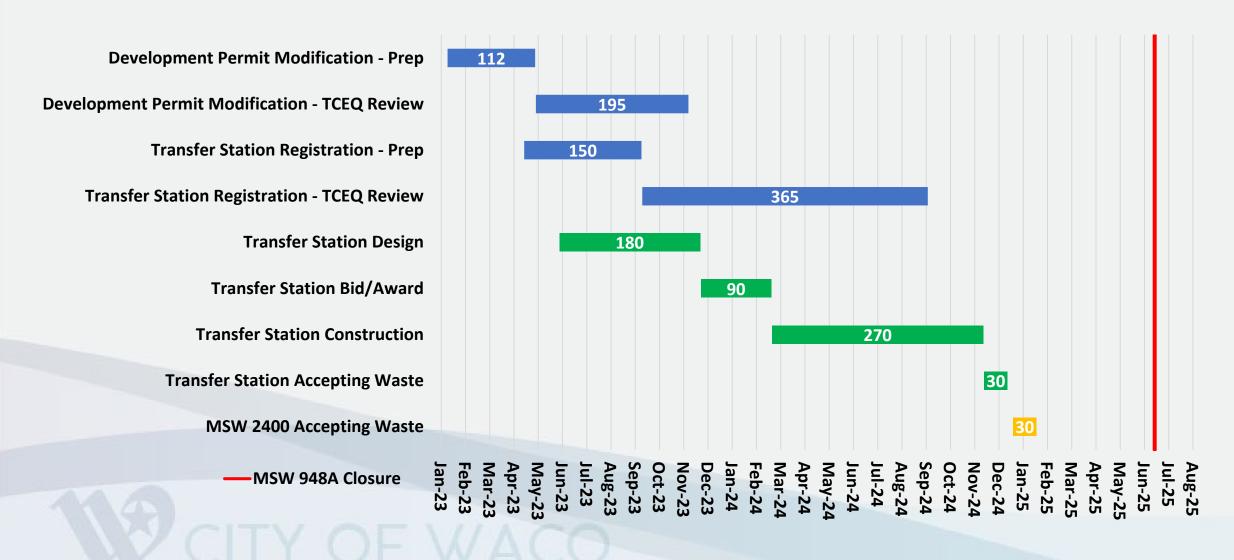
^{*}Current cost estimates are higher than anticipated. Evaluating alternative options.

^{**}Evaluating alternative options to reduce the cost of the administration building.

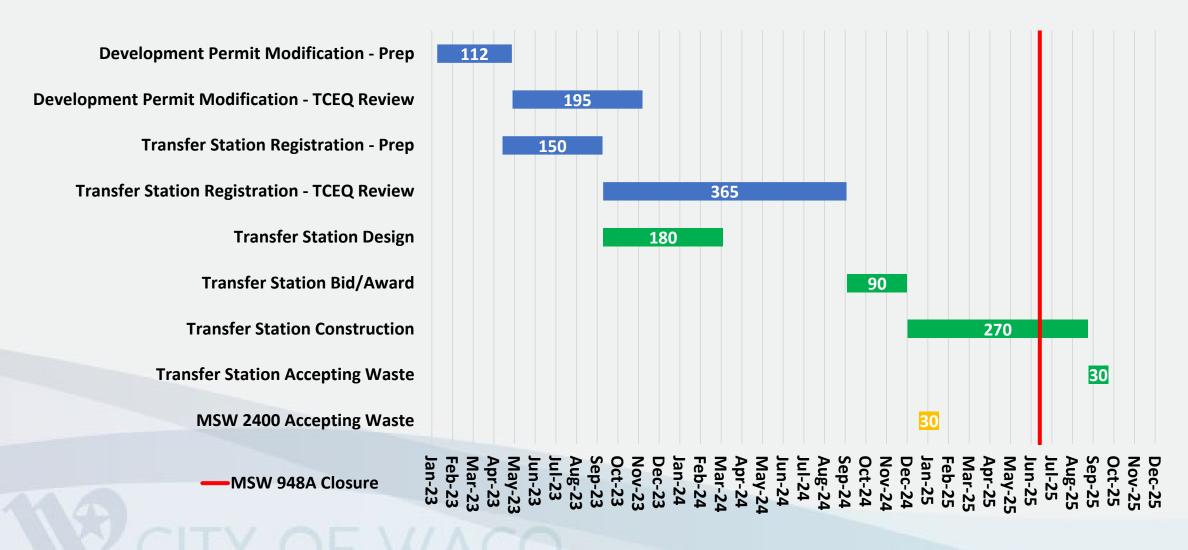
Proposed Transfer Station Site Plan



Proposed Transfer Station Schedule Pre-Registration Approval Construction



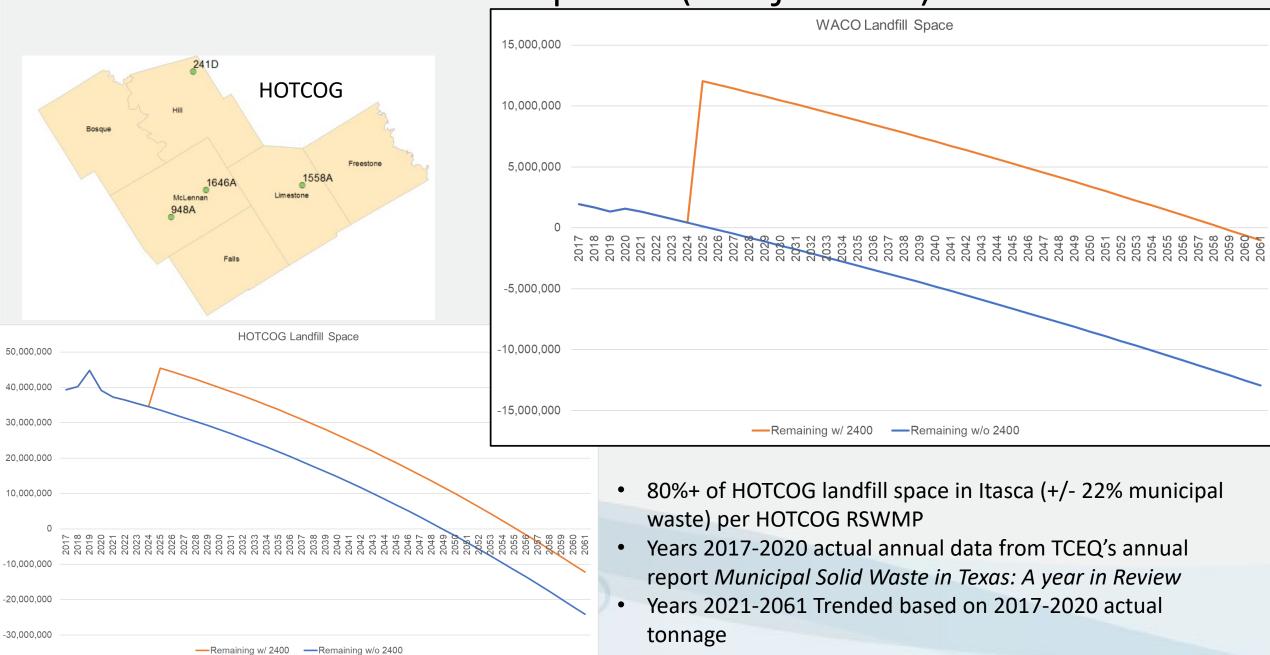
Proposed Transfer Station Schedule Post-Registration Approval Construction



Proposed Transfer Station Cost Estimate



Landfill Space (Projected)



Solid Waste Cost of Service Study

Line		Year 1	Year 2	Year 3	Year 4	Year 5
No.		FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
91	Indirect Costs					
92	HHW Collection	\$ 0.08	\$ 0.08	\$ 0.08	\$ 0.08	\$ 0.09
93	Alley Maintenance	\$ 0.45	\$ 0.46	\$ 0.47	\$ 0.49	\$ 0.51
94	Cobbs Center	\$ 0.97	\$ 1.35	\$ 1.40	\$ 1.52	\$ 1.58
95	Community Cleanups	\$ 0.12	\$ 0.12	\$ 0.13	\$ 0.13	\$ 0.14
96	Tire Collection Events	\$ 0.06	\$ 0.07	\$ 0.07	\$ 0.07	\$ 0.07
97	Container Maintenance	\$ 0.17	\$ 0.18	\$ 0.18	\$ 0.19	\$ 0.19
98	Admin - Automated Refuse	\$ 2.14	\$ 2.13	\$ 2.11	\$ 2.06	\$ 1.97
99	Admin - Automated Recycling	\$ 0.99	\$ 0.97	\$ 0.93	\$ 0.93	\$ 0.91
100	Admin - Semi-Auto Green Waste	\$ 0.93	\$ 0.91	\$ 0.87	\$ 0.88	\$ 0.86
101	Admin - Brush and Bulky	\$ 0.39	\$ 0.40	\$ 0.42	\$ 0.41	\$ 0.36
102	Total - Indirect Cost	\$ 6.30	\$ 6.66	\$ 6.66	\$ 6.76	\$ 6.68
103	Disposal Cost					
104	Monthly Capacity	20,366,294	20,722,684	21,033,532	21,296,453	21,509,421
105	\$/Gallon per Month	\$ 0.008	\$ 0.009	\$ 0.010	\$ 0.011	\$ 0.014
106	Monthly Disposal Cost					
107	90 gallon (1 cart, 1x week)	\$ 3.03	\$ 3.47	\$ 3.92	\$ 4.34	\$ 5.58
108	180 gallon (1 cart, 2x week)	\$ 6.06	\$ 6.94	\$ 7.84	\$ 8.68	\$ 11.16
109	180 gallon (2 carts, 1x week)	\$ 6.06	\$ 6.94	\$ 7.84	\$ 8.68	\$ 11.16
110	270 gallon (3 carts, 1x week)	\$ 9.09	\$ 10.41	\$ 11.76	\$ 13.03	\$ 16.75
111	360 gallon (2 carts, 2x week)	\$ 12.13	\$ 13.87	\$ 15.68	\$ 17.37	\$ 22.33
112	360 gallon (4 carts, 1x week)	\$ 12.13	\$ 13.87	\$ 15.68	\$ 17.37	\$ 22.33
113	450 gallon (5 carts, 1xweek)	\$ 15.16	\$ 17.34	\$ 19.60	\$ 21.71	\$ 27.91
114	540 gallon (3 carts, 2x week)	\$ 18.19	\$ 20.81	\$ 23.53	\$ 26.05	\$ 33.49
115	540 gallon (6 carts, 1x week)	\$ 18.19	\$ 20.81	\$ 23.53	\$ 26.05	\$ 33.49
116	720 gallon (4 carts, 2x week)	\$ 24.25	\$ 27.75	\$ 31.37	\$ 34.74	\$ 44.66
117	900 gallon (5 carts, 2x week)	\$ 30.32	\$ 34.69	\$ 39.21	\$ 43.42	\$ 55.82
118	1040 gallon (6 carts, 2x week)	\$ 35.03	\$ 40.08	\$ 45.31	\$ 50.18	\$ 64.50
119	Residential (Garbage + Recycling)					
120	Total Residential Cost (1st cart)	\$ 19.16	\$ 20.66	\$ 21.65	\$ 22.62	25.22
121	Total Residential (Additional Cart)	\$ 7.34	\$ 8.09	\$ 8.82	\$ 9.36	\$ 11.19

Annual average increase of 7.15% through FY2027 (\$1.41/month/year approximately). Actual rate lower due to landfill and commercial revenues (e.g. \$17.70 in FY23 and projected \$23.34 in FY27).

Residential Solid Waste Rate Comparison (FY23)

Monthly Residential Rate



Summary

- Current Operations
 - Annual Tonnage at 948a is increasing
 - Self-Haulers
 - COW
 - Life of 948a ends Jan 2025; efforts to extend offset by tonnage increases
- Future Operations
 - New landfill extends landfill capacity
 - Region: 6 years (skewed by high capacity but low MSW waste at Itasca)
 - Waco: 34 years
 - Transfer station to be complete by Jan. 2025 or Nov. 2025 depending on start of construction activities.
 - Reduces operational cost
 - Provides landfill flexibility
 - Residential rates will increase 7.15% each year until 2027 (\$1.41/month/year)
 - Monthly: \$17.70 (current) to \$23.34 by 2027