



SOLID WASTE MANAGEMENT PLAN UPDATE

PRESENTATION / DECEMBER 15, 2017

Presented by: James A. Skora





AGENDA

- Solid Waste Plan Schedule
- Chapter 1 – Introduction
- Chapter 2 – District Profile
- Chapter 3 – Waste Generation
- Chapter 4 – Waste Management
- Chapter 5 – Waste Reduction and Recycling
- Chapter 6 - Budget
- Certification of Draft Plan
- Next Steps



NEW SOLID WASTE PLAN SCHEDULE





NEW SOLID WASTE PLAN SCHEDULE

OEPA Schedule for New Plan	End Date
OEPA Published Start Date	9/24/2016
Draft Due	12/24/2017
Final Draft Due to OEPA	3/26/2019
Final Approval by OEPA	6/24/2019

Plan Development Tasks	Start Date	End Date	GT Meetings	Meetings with Policy Committee	Completed
Information Request to District	September 2016	September 2016			100%
Project Kick-Off, PC Introduction	September 2016	September 2016		September 16, 2016	100%
Plan Update Work Book	September 2016	December 2017			100%
Appendix A - Reference Year, Material Change	October 2016	January 2017	June 2017	January 20, 2017	100%
Appendix B - Inventory	October 2016	January 2017			100%
Appendix C - Population	October 2016	January 2017			100%
Appendix D - Disposal Data	October 2016	January 2017			100%
Appendix E - Res/Com Reference Year Recycling	October 2016	January 2017			100%
Appendix F - Industrial Reference Year Recycling	October 2016	January 2017		June 16, 2017	100%
Appendix G - Historical Waste Generation	October 2016	January 2017		100%	
Appendix H - Strategic Evaluation (13 Analysis)	January 2017	August 2017		100%	
Appendix I - Conclusions, Priorities and Programs	April 2017	August 2017		100%	
Appendix J - Goal 1 Demonstration	April 2017	October 2017		July 2017	September 15, 2017
Appendix K - Goal 2 Demonstration	April 2017	October 2017	100%		
Appendix L - Education Program Demonstration	April 2017	August 2017	100%		
Appendix M - Capacity Demonstration	October 2016	January 2017	100%		
Appendix N - Greenhouse Gas Emissions	May 2017	November 2017	November 17, 2017		100%
Appendix O - Financial Data	June 2017	November 2017			100%
Appendix P - Designation	August 2017	November 2017			100%
Appendix Q - District Rules	August 2017	November 2017		100%	
Appendix R - Survey Forms	August 2017	November 2017		100%	
Appendix S - Siting Criteria	August 2017	November 2017		100%	
Appendix T - Resolutions	August 2017	November 2017		0%	
Appendix U - Ratification Results	February 2019	April 2019	0%		
Appendix V - ORC Requirements	August 2017	November 2017	100%		
Section i - SWMD Information	March 2017	March 2017			100%
Chapter I: Introduction	August 2017	November 2017		December 15, 2017	100%
Chapter II: District Profile	September 2017	November 2017			100%
Chapter III: Waste Generation	September 2017	November 2017			100%
Chapter IV: Waste Management	September 2017	November 2017			100%
Chapter V: Waste Reduction and Recycling Programs	September 2017	December 2017			100%
Chapter VI: Budget	October 2017	December 2017			100%
Plan Approval					
Draft Plan Resolution from Policy Committee	December 2017	December 2017		December 15, 2017	0%
Ohio EPA 45-Day Comment Period	December 24, 2017	February 6, 2018			0%
Revise Plan Based on NBO Comments	February 2018	May 2018			0%
Meet with OEPA to Review Changes	June 2018	June 2018	June 2017		0%
Public Comment Period	September 2018	September 2018			0%
Public Hearing	October 2018	October 2018	October 2018		0%
Revise Plan Based on Public Comments	October 2018	October 2018			0%
Policy Committee Adopts Draft Plan	October 2018	October 2018		October 2018	0%
Ratification (90 Days)	November 2018	January 2019			0%
Policy Committee Certifies Ratification	February 2019	February 2019		February 2019	0%
Final Ohio EPA Review (90 Days)	March 26, 2019	June 24, 2019			0%
Plan Approval	6/24/2019				



CHAPTER REVIEW



CHAPTER I - INTRODUCTION

- Appendix A Summary
- Introduction
- District Overview
- Waste Reduction and Recycling Goals

Goal 1

•The SWMD shall ensure that there is adequate infrastructure to give residents and commercial businesses opportunities to recycle solid waste.

Goal 2

•The SWMD shall reduce and recycle at least 25 percent of the solid waste generated by the residential/commercial sector and at least 66 percent of the solid waste generated by the industrial sector.

Goal 3

•The SWMD shall provide the following required programs: a Web site; a comprehensive resource guide; an inventory of available infrastructure; and a speaker or presenter.

Goal 4

•The SWMD shall provide education, outreach, marketing and technical assistance regarding reduction, recycling, composting, reuse and other alternative waste management methods to identified target audiences using best practices.

Goal 5

•The SWMD shall provide strategies for managing scrap tires, yard waste, lead-acid batteries, household hazardous waste and obsolete/end-of-life electronic devices.

Goal 6

•The SWMD shall explore how to incorporate economic incentives into source reduction and recycling programs.

Goal 7

•The SWMD will use U.S. EPA's Waste Reduction Model (WARM) (or an equivalent model) to evaluate the impact of recycling programs on reducing greenhouse gas emissions.

Goal 8

•The SWMD has the option of providing programs to develop markets for recyclable materials and the use of recycled-content materials.

Goal 9

•The SWMD shall report annually to Ohio EPA regarding implementation of the SWMD's solid waste management plan.



CHAPTER II – DISTRICT PROFILE

- Appendix B and C Summary
- Profile of Political Subdivisions
- Population
- Profile of Waste Management Infrastructure
- Profile of Commercial and Institutional Sector
- Profile of Industrial Sector
- Other Characteristics

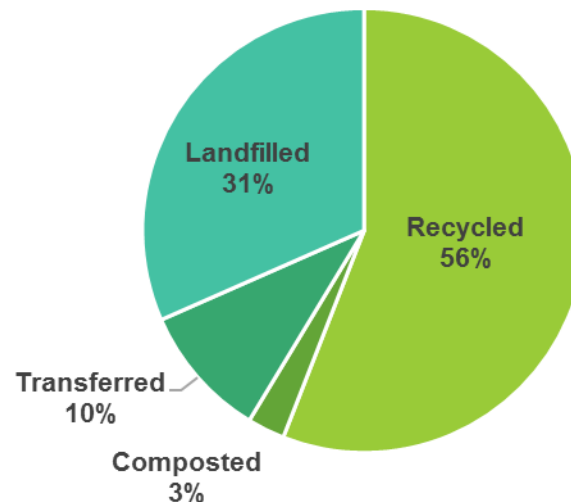


CHAPTER III – WASTE GENERATION

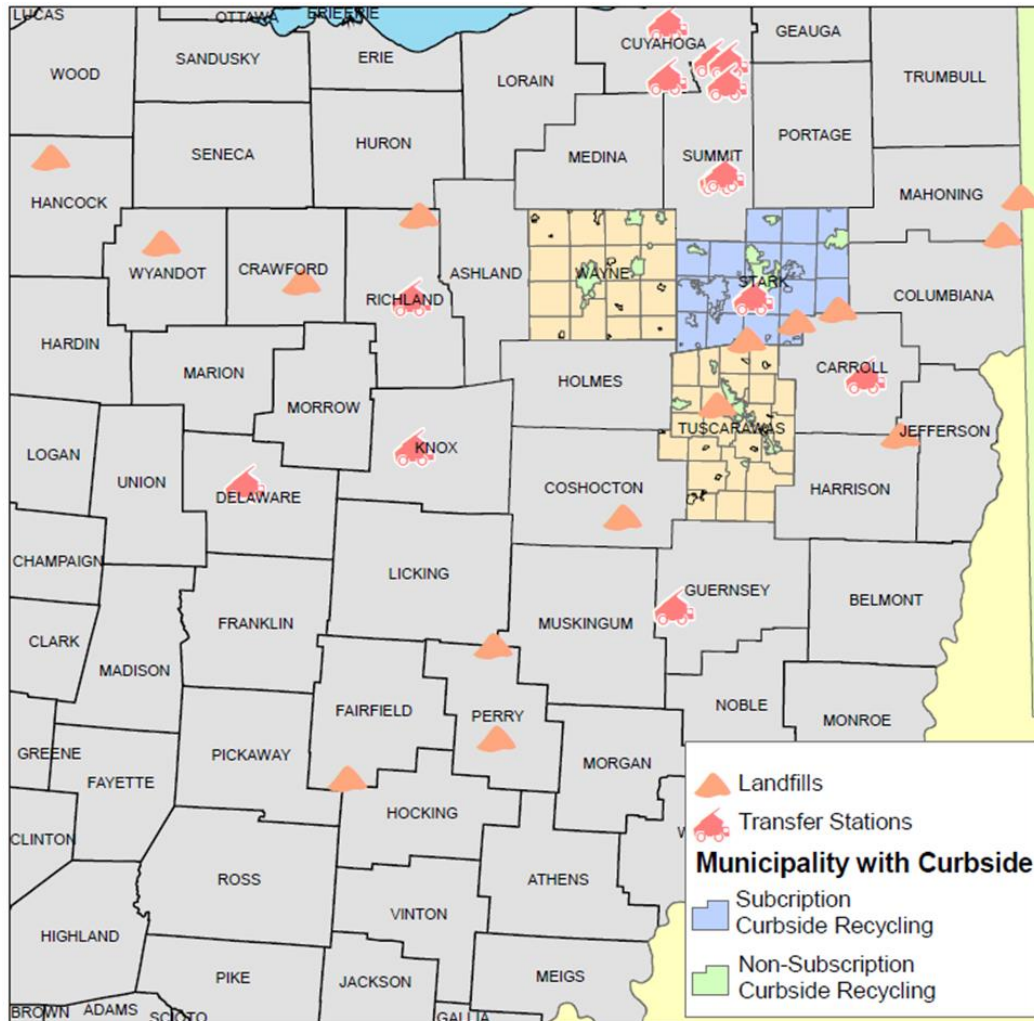
- Appendix D, E, F and G Summary
- Solid Waste Generation in Reference Year
- Historical Waste Generated
- Waste Generation Projections

CHAPTER IV – WASTE MANAGEMENT

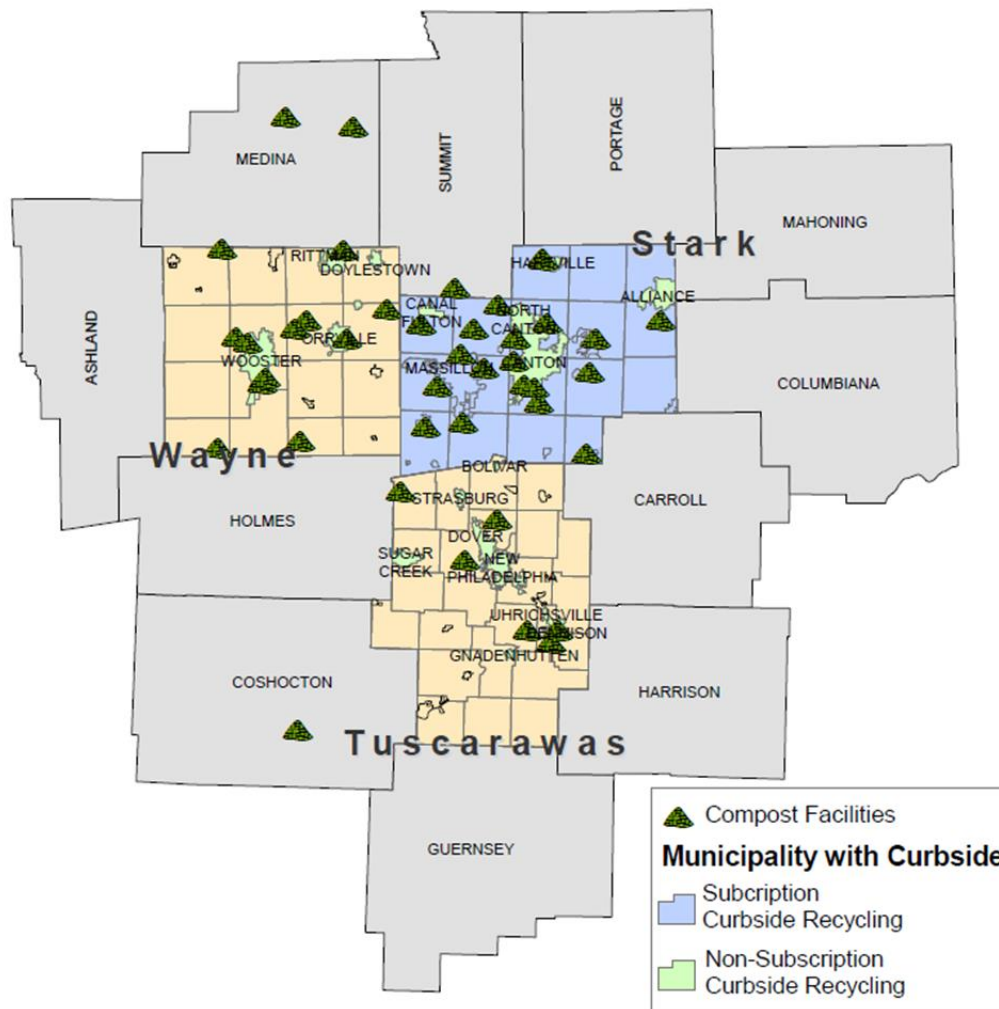
- Appendix M, N, P, Q Summary
- Waste Management Overview
- Profile of Waste Management Infrastructure
- Solid Waste Facilities Used in Reference Year
- Use of Solid Waste Facilities During Planning Period
- Designation



CHAPTER IV – WASTE MANAGEMENT



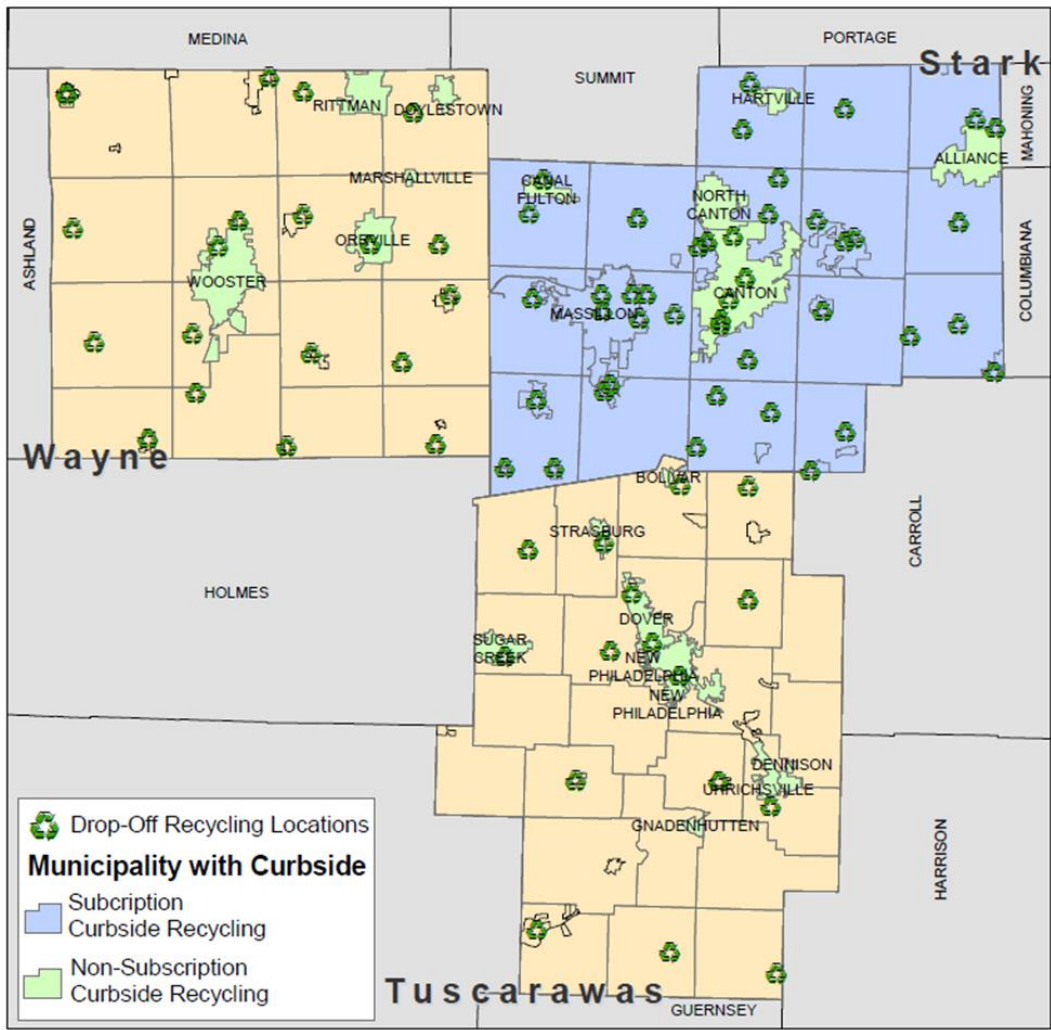
CHAPTER IV – WASTE MANAGEMENT



CHAPTER V – WASTE REDUCTION AND RECYCLING

- Appendix H, I, L, J, K Summary
- Program Evaluations and Priorities
- Program Descriptions
- Waste Reduction and Recycling Rates

CHAPTER V – WASTE REDUCTION AND RECYCLING



CHAPTER V – WASTE REDUCTION AND RECYCLING

Section in App. H	Program Category	Action	District Ranking
H-1	Drop-Offs	Create a map for the drop-offs located in the District and post it on the website.	5
		Work with political subdivisions to educate their residents about drop-off program.	4
	Curbside	Target political subdivisions for implementing curbside recycling programs if population is greater than 20,000.	5
		Work with political subdivisions to implement curbside recycling in other areas that are prime candidates based on factors other than population (such as housing density).	4
		Promote the grant funding available vs an incentive for political subdivisions to implement curbside recycling.	5
		Work with political subdivisions when contracts are nearing renewal time to make contract adjustments that will maximize recycling collected, such as adding a Pay-As-You-Throw element, increasing recycling container size, and/or requiring the hauler to provide ongoing education, such as a quarterly direct mailer to residents.	5
		Target at least two communities each year to work on improving recovery rates.	5
		Special Events: Increase District's presence at large events	4
	Residential Education		

CHAPTER V – WASTE REDUCTION AND RECYCLING

Section in App. H	Program Category	Action	District Ranking
H-4	Yard waste	Reduce yard waste program to fit within a \$300,000 per year budget	5
		Increase partnerships with private sector to increase yard waste drop-off locations that do not increase cost to District	5
		Evaluate the use of a yard waste grinder to reduce volumes to improve transportation efficiencies	5
		Improve existing yard waste sites such as implementing cameras, fencing and gates to reduce contamination (if sites are continued)	4
		Conduct a campaign to reduce informational commercial use of yard waste drop-off sites	4
		Conduct an education campaign for residential users of yard waste sites to reduce contamination	5
		Modify drop-off site programs to save money and improve program	5
		Recycle Makes \$ense Grant	Develop grant ton limits based on a scale to give incentive for higher performance
	Develop automated cart incentive option to grant		5
	H-6	HHW	Develop PAYT incentive option to grant
HHW collection increase presence in District			4
Conduct education campaign to inform residents on alternate local options for HHW materials			4
Update and send HHW guide or newsletter out annually			5
Expand HHW collection in District			4
Evaluate the option for a year-round permanent HHW facility central to the three-county area to supplement weekend collections		5	
Appliances, batteries, Metals	Increase promotion	4	

CHAPTER V – WASTE REDUCTION AND RECYCLING

Section in App. H	Program Category	Action	District Ranking
H-8	Well Monitoring	Reallocate some funds to another program since the \$25,000 currently budgeted for Well testing is typically not requested.	5
H-13	Education	Have a sheet in Newsletter that can be ripped out to hang in a home with useful facts, tips, following year dates, website, and contact information Website ability to track the visitor statistics.	4 5

CHAPTER V – WASTE REDUCTION AND RECYCLING

Year	Projected Tons Collected	Residential/ Commercial WRR ¹
2019	147,065	23%
2020	146,849	23%
2021	146,637	23%
2022	146,428	23%
2023	146,223	23%
2024	146,208	24%

¹ "WRR" means waste reduction and recycling rate.

Year	Projected Tons Collected	Industrial WRR ¹
2019	1,019,243	75%
2020	1,019,243	75%
2021	1,019,243	75%
2022	1,019,243	75%
2023	1,019,243	75%
2024	1,019,243	75%

¹ "WRR" means waste reduction and recycling rate.



CHAPTER VI - BUDGET

- Appendix O Summary
- Overview of District Budget
- Revenue
- Expenses
- Budget Summary
- Alternative Budget – Not Used
- Major Facility Project – Not Used

CHAPTER VI - BUDGET

	Year	Revenue	Expenses	Annual Surplus/Deficit	Balance
	2010			Ending Balance	\$2,111,295
	2011	\$3,200,527	\$2,728,230	\$472,297	\$2,583,592
	2012	\$3,568,789	\$2,399,946	\$1,168,843	\$3,752,435
	2013	\$3,963,599	\$2,812,270	\$1,151,330	\$4,903,764
	2014	\$4,145,676	\$2,829,716	\$1,315,960	\$6,219,725
	2015	\$3,582,515	\$4,057,690	-\$475,175	\$5,744,550
	2016	\$3,558,887	\$4,861,822	-\$1,302,935	\$4,441,615
	2017	\$3,653,607	\$4,664,286	-\$1,010,679	\$3,430,936
	2018	\$3,678,578	\$4,248,000	-\$569,422	\$2,861,514
X	2019	\$3,753,843	\$4,407,548	-\$653,705	\$2,207,809
First Year of Planning Period ..	2020	\$3,779,406	\$4,184,628	-\$405,223	\$1,802,586
	2021	\$3,806,578	\$4,527,911	-\$721,333	\$1,081,252
	2022	\$3,834,047	\$4,309,143	-\$475,095	\$606,157
	2023	\$3,861,818	\$4,370,655	-\$508,837	\$97,320
	2024	\$3,891,812	\$3,880,655	\$11,157	\$108,477
	2025	\$3,922,107	\$3,880,655	\$41,452	\$149,929
	2026	\$3,952,704	\$3,904,272	\$48,432	\$198,361
	2027	\$3,983,608	\$3,904,439	\$79,169	\$277,530
	2028	\$4,014,820	\$3,880,822	\$133,998	\$411,528



CERTIFICATION OF DRAFT PLAN





CERTIFICATION OF DRAFT PLAN

We as representatives of the Solid Waste Management Policy Committee (SWMPC) of the Stark-Tuscarawas-Wayne Joint Solid Waste Management District (District), do hereby certify that to the best of our knowledge and belief, the statements, demonstrations and all accompanying materials that comprise the draft District Solid Waste Management Plan Update, and the availability of and access to sufficient solid waste management facility capacity to meet the solid waste management needs of the District for the ten year period covered by the Plan Update are accurate and are in compliance with the requirements in the *District Solid Waste Management Plan Format*, revision 4.0.





NEXT STEPS





NEXT STEPS

- Ohio EPA NBAO Review (December 24, 2017 – February 6, 2018)
- Changes to Plan Based on NBAO Comments (February – May 2018)
- Public Comment Period
- Public Hearing
- Next Policy Committee Meeting Date for Plan (October 2018??)
- Ratification of Plan