

SOLID WASTE AND RECYCLING MANAGEMENT PLAN



*Solid Waste Management Plan Update for
Perry County*

Meeting 2 – January 23, 2024



AGENDA

Speakers:

Tyler Carpenter

Greater Egypt

Environmental Planning Director

tylercarpenter@greateregyp.org

Kelsey Bowe

Greater Egypt

Environmental Planner

kelseybowe@greateregyp.org

Becky Tracy

Perry County Office of Waste Management

Waste Management Coordinator

BTracy@perrycountyiil.gov



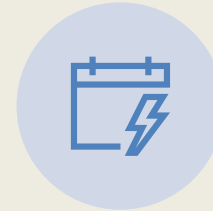
Welcome and
Introductions



Planning Review



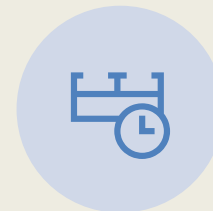
Planning
Process



Current Planning



Public Education
and Outreach



Future Planning
and Timeline

Solid Waste Recycling Act (415 ILCS 15)

- Provide incentives for decreased generation of municipal waste
- Require counties to develop comprehensive waste management plan
 - Emphasis on recycling and alternatives to landfills
- Encourage municipal recycling and source reductions
- Promote composting of yard waste

Solid Waste Minimum Requirements

1. A description of the origin, content and weight or volume of municipal waste currently generated within the county's boundaries, and the origin, content, and weight or volume of municipal waste that will be generated within the county's boundaries during the next 20 years, including an assessment of the primary variables affecting this estimate and the extent to which they can reasonably be expected to occur.
2. A description of the facilities where municipal waste is currently being processed or disposed of and the remaining available permitted capacity of such facilities.
3. A description of the facilities and programs that are proposed for the management of municipal waste generated within the county's boundaries during the next 20 years, including, but not limited to their size, expected cost and financing method.
4. An evaluation of the environmental, energy, life cycle cost and economic advantages and disadvantages of the proposed waste management facilities and programs.

Solid Waste Minimum Requirements

5. A description of the time schedule for the development and operation of each proposed facility or program.
6. The identity of potential sites within the county where each proposed waste processing, disposal and recycling program will be located or an explanation of how the sites will be chosen. For any facility outside the county that the county proposes to utilize, the plan shall explain the reasons for selecting such facility.
7. The identity of the governmental entity that will be responsible for implementing the plan on behalf of the county and explanation of the legal basis for the entity's authority to do so.
8. Any other information that the Agency may require. (d) Any county may delegate power to a municipality within the county or Municipal Joint Action Agency for the specific purpose of preparing the waste management plan or any portion thereof under this Act. (e) Counties may, by intergovernmental agreement, jointly create and administer their solid waste management plans, provided that such joint plans fulfill all the requirements of this Act. (Source: P.A. 86-228.)

Recycling Program Requirements

1. shall be implemented throughout the county and include a time schedule for implementation of the program.
2. shall provide for the designation of a recycling coordinator to administer the program.
3. shall be designed to recycle, by the end of the third and fifth years of the program, respectively 15% and 25% of the municipal waste generated in the county, **subject to the existence of a viable market for the recycled material**, based on measurements of recycling and waste generated in terms of weight. The determination of recycling rate shall not include: discarded motor vehicles, wastes used for clean fill or erosion control, or commercial, institutional or industrial machinery or equipment.
4. may provide for the construction and operation of one or more recycling centers by a unit of local government, or for contracting with other public or private entities for the operation of recycling centers.

Recycling Program Requirements

6. may require residents of the county to separate recyclable materials at the time of disposal or trash pick-up.
7. may make special provision for commercial and institutional establishments that implement their own specialized recycling programs, provided that such establishments annually provide written documentation to the county of the total number of tons of material recycled.
8. shall provide for separate collection and composting of leaves.
9. shall include public education and notification programs to foster understanding of and encourage compliance with the recycling program.

Recycling Program Requirements

10. shall include provisions for compliance, including incentives and penalties.
11. shall include provisions for (i) recycling the collected materials, (ii) identifying potential markets for at least 3 recyclable materials, and(iii) promoting the use of products made from recovered or recycled materials among businesses, newspapers and local governments in the county.
12. may provide for the payment of recycling diversion credits to public and private parties engaged in recycling activities.

PLANNING PROCESS/ REQUIREMENTS

County Coordinators

- Perry County – Becky Tracy, *Recycling Coordinator*

Advisory Committee

- City officials/ County officials
 - Perry County Office of Solid Waste
 - Du Quoin
 - Tamaroa
 - Pinckneyville
 - St. Johns
 - Cutler
 - Willisville

PLANNING PROCESS/ REQUIREMENTS




Participation Requirements

- All municipalities must participate in the planning process
- Participation can be met through:
 1. Meeting attendance
 2. Completed Waste/Recycling Questionnaire

PLANNING PROCESS

- Municipal Survey
- Results

**Perry County Solid Waste Management Plan
Questionnaire for municipalities**

Name of City/Village:

1) Does your municipality have scheduled trash pick-up? Yes No

If yes, Does the municipality run the program or do you contract with a private hauling company?

Municipality	Curbside Trash?	Curbside Recycling?	Yard Waste Pickup?	Electronic Recycling Events?	Clean-up/Dump Days
Du Quoin					
Cutler					
Pinckneyville					
St. Johns					
Tamaroa					
Willisville					

5) Does your municipality have electronic recycling events? Yes No

Frequency & locations:

PREVIOUS PLANNING EFFORTS

- *Perry County Solid Waste Plan – Year Unknown*
 - *Waste Description*
 - *Recycling Practices*
 - *Perry County Recycling Programs*

PREVIOUS PLANNING EFFORTS

	Implemented
	Uncertain
	Not Implemented

Component	Task	Implementation
Source Reduction	Comprehensive County-wide education/information programs should be implemented promoting source reduction and recycling.	
	Current activities and programs of citizen groups should be intensified and coordinated with other programs.	
	Commercial/institutional/industrial generators should seek technical assistance and perform waste audits so as to reduce their waste stream and increase recycling.	
	Source reduction (and recycling) programs should be established in all major County, municipal and school facilities.	
	County, municipalities and school districts should revise their procurement practices and specifications to promote source reduction and recycling.	

PREVIOUS PLANNING EFFORTS

Recycling	Comprehensive County-wide education/information programs should be implemented promoting recycling and source reduction.	
	Drop off recycling containers should be established at four to six locations throughout the County.	
	At some outlying drop-off locations it may also be desirable to set up MW dumpsters to serve self-haulers and thus minimize opportunities for contamination of the recyclable materials.	
	One or more mixed waste processing facilities ("dirty MRF's") should be established in the County to serve areas where curbside programs are not provided. Such facilities would also function as transfer stations. To facilitate material recovery, residents should be asked to put recyclable materials in blue bags.	
	An education/information program, promoting commercial/institutional/industrial recycling and source reduction, should be implemented throughout the County	
	Recycling (and source reduction) programs should be established in all major County, municipal, school and other local government facilities.	
	County, municipalities and school districts should revise their procurement practices and specifications to promote the re-use of recycled materials.	
	All business and institutions with more than 100 employees should be required to designate recycling coordinators and phase-in source separation of corrugated, paper and two or three other materials. Depending on program performance, smaller establishments can be phased-in in <i>the</i> future	
	Major shopping centers should designate recycling coordinators and be required to provide recycling opportunities for their tenants that result in source separation of corrugated, paper and two or three other materials	
	Haulers serving businesses and institutions should be required to collect the source separated materials and make arrangements for processing and marketing	

PREVIOUS PLANNING EFFORTS

Combustion	It does not appear that the development of a WTE facility is currently feasible or desirable in the Greater Egypt Region.	
	Incineration is a municipal waste disposal option not recommended at this time due to high development and life cycle costs and regulatory uncertainties.	
Landfill	Municipalities and haulers in the County should continue to utilize the Southern Illinois Regional and other County landfills unless other more economical or more convenient options become available.	
	County should support the development of new landfills or expansions in adjacent counties so as to provide long term capacity and more competitive market conditions, providing that such developments meet all current environmental and fiscal requirements.	

CURRENT
PLANNING

Plan
Outline

Introduction and County Background

Regional Plan Updates

Waste Generation and Composition

Materials Management

Public Education and Outreach

Management Recommendations

CURRENT PLANNING

Available Data and Information

- *Perry County Solid Waste Plan – Year Unknown*
- *Illinois Commodity/Waste Generation and Characterization Study (2015)*
- *Illinois Electronics Recycling Program Report, IEPA (2019)*
- *Illinois Materials Management Advisory Committee Report to the General Assembly (2021)*
- *Illinois Landfill Disposal Report, IEPA (2022, 2023)*
- *Hazardous Materials Emergency Planning Program, IEMA (ongoing)*

Waste Generation and Composition

- Material
- Sources
- Quantities
- Residential vs Commercial

CURRENT PLANNING

2021 Landfill Capacity

	Disposal Volume Reported (Gate cy)	Disposal Volume (Post-Compaction In-place cy)	Five-Year Average Disposal Volume (In-place cy)	Remaining Capacity Reported (In-place cy)	Lifetime Expectancy (Year)
Region 7: Southern Illinois					
Perry Ridge Landfill Inc.	237,875	228,726	183,364	11,147,038	61
Southern Illinois Regional Landfill Inc.	1,080,051	432,020	436,069	17,693,371	41
Sumner Landfill Inc.	203,054	92,297	94,490	2,715,307	29
West End Disposal Facility	283,513	141,757	139,833	12,059,699	86
Totals:	1,804,493	894,800	853,755	43,615,414	51

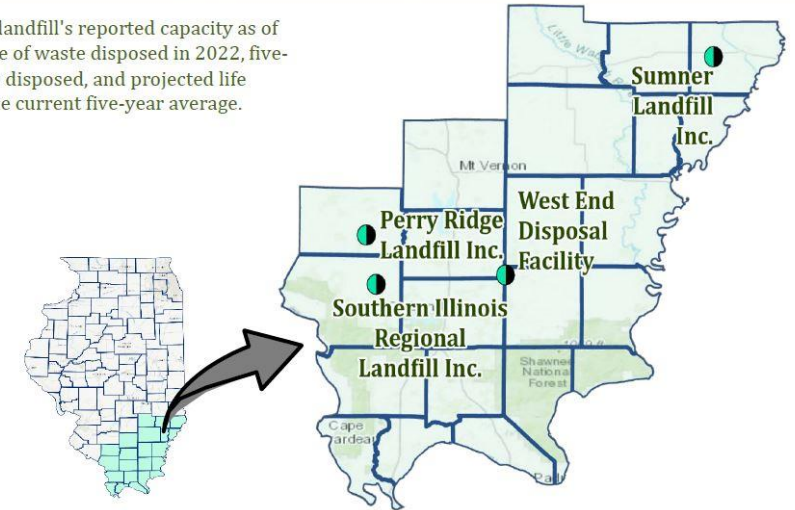
The table reflects each landfill's reported capacity as of January 1, 2022, volume of waste disposed in 2021, five-year average of volume disposed, and projected life expectancy based on the current five-year average.



2022 Landfill Capacity Information

	Disposal Volume Reported (Gate cy)	Disposal Volume (Post-Compaction In-place cy)	Five-Year Average Disposal Volume (In-place cy)	Remaining Capacity Reported (In-place cy)	Lifetime Expectancy (Year)
Region 7: Southern Illinois					
Perry Ridge Landfill Inc.	242,996	233,650	192,750	10,215,536	53
Southern Illinois Regional Landfill Inc.	1,064,017	425,607	442,357	15,595,041	35
Sumner Landfill Inc.	203,361	96,304	96,304	2,215,574	23
West End Disposal Facility	299,093	149,547	143,436	9,703,820	68
Totals:	1,809,467	901,240	874,847	37,729,971	42

The table reflects each landfill's reported capacity as of January 1, 2023, volume of waste disposed in 2022, five-year average of volume disposed, and projected life expectancy based on the current five-year average.



Illinois Commodity/Waste Generation and Characterization Study (2015)

Illinois Commodity/Waste Generation and Characterization Study (2015)

Perry County Municipal Solid Waste (MSW) Generation

	County Generation (lb/c/yr)	Total Generation (tons)		County Generation (lb/c/yr)	Total Generation (tons)
Paper	411.7	4,580	Metal		
Newsprint	64.7	720	Other Ferrous	51.2	570
High Grade Office Paper	24.3	270	Other Non-Ferrous	9.0	100
Magazines/Catalogs	27.9	310	Other Metal	16.2	180
Uncoated OCC/Kraft	101.6	1,130			
Boxboard	54.8	610	Organics	549.3	6,110
Mixed Paper - Recyclable	53.0	590	Yard Waste - Compostable	117.8	1,310
Compostable Paper	72.8	810	Yard Waste - Woody	23.4	260
Other Paper	12.6	140	Food Scraps	284.1	3,160
			Bottom Fines & Dirt	44.9	500
Beverage Containers	4.5	50	Diapers	36.9	410
Milk & Juice Cartons/Boxes - Coated	4.5	50	Other Organic	42.3	470
Plastic	282.3	3,140	Inorganics	177.1	1,970
#1 PET Bottles/Jars	16.2	180	Televisions	5.4	60
#1 Other PET Containers	4.5	50	Computer Monitors	3.6	40
#2 HDPE Bottles/Jars - Clear	8.1	90	Computer Equipment/Peripherals	7.2	80
#2 HDPE Bottles/Jars - Color	7.2	80	Electronic Equipment	14.4	160
#2 Other HDPE Containers	0.9	10	White Goods - Refrigerated	10.8	120
#6 Exp. Polystyrene Packaging	18.9	210	White Goods - Not refrigerated	23.4	260
#3-#7 Other - All	12.6	140	Lead-acid Batteries	18.0	200
Other Rigid Plastic Products	57.5	640	Other Household Batteries	4.5	50
Grocery & Merchandise Bags	9.9	110	Tires	26.1	290
Trash Bags	33.3	370	Household Bulky Items	62.9	700
Commercial & Industrial Film	28.8	320	Fluorescent Lights/Ballasts	0.9	10
Other Film	58.4	650			
Other Plastic	26.1	290	Textiles	93.5	1,040
			Carpet	24.3	270
Glass	85.4	950	Carpet Padding	6.3	70
Recyclable Glass Bottles & Jars	67.4	750	Clothing	39.6	440
Flat Glass	9.9	110	Other Textiles	23.4	260
Other Glass	8.1	90			
			Household Hazardous Waste	27.9	310
Metal	123.2	1,370	Construction and Demolition Debris (C&D)	459.4	5,110
Aluminum Beverage Containers	15.3	170			
Other Aluminum	9.0	100	Total MSW (tons)		24,630
Ferrous Containers (Tin Cans)	22.5	250	Total MSW (pounds/person/day)		6.07

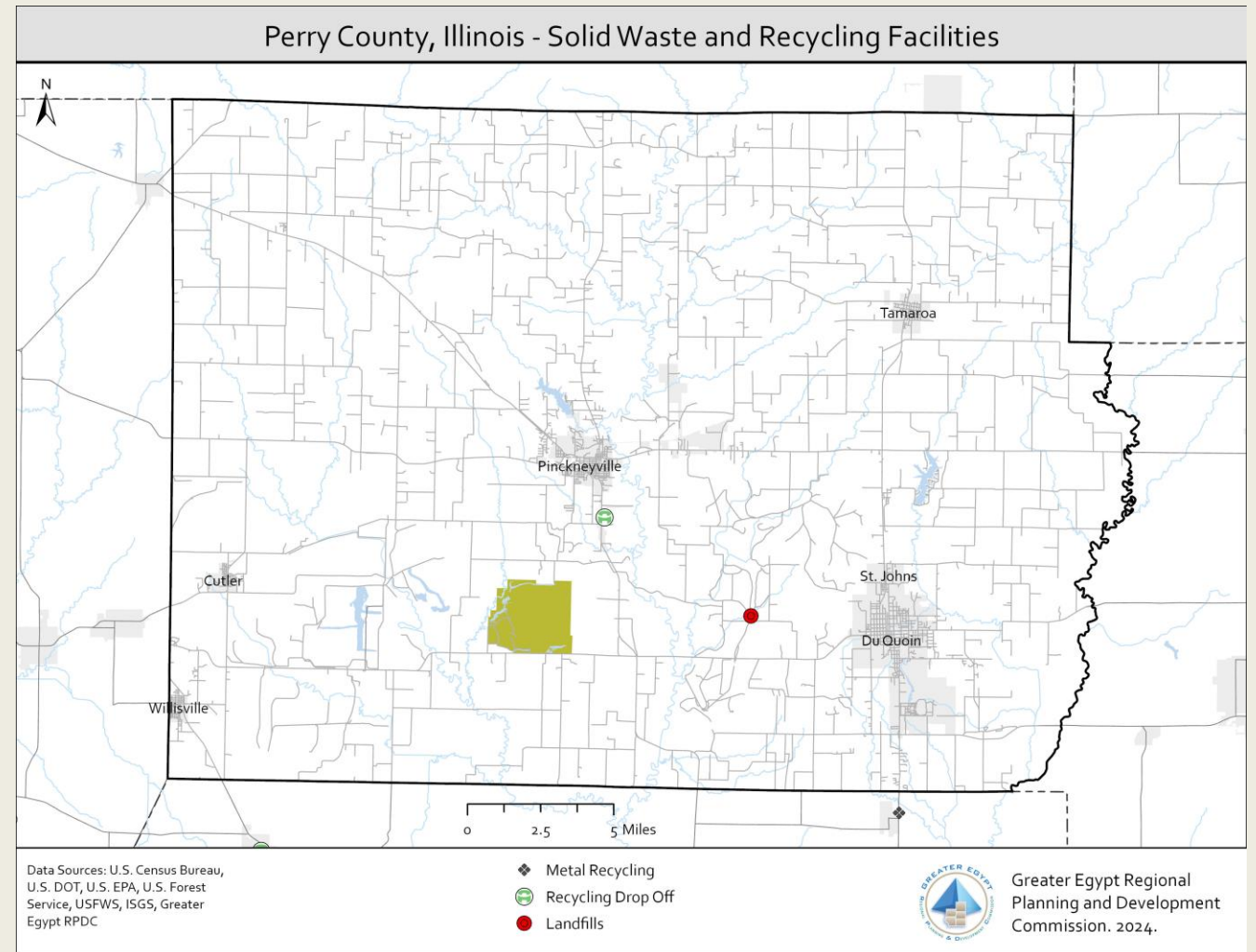
2014 population

22,247

CURRENT PLANNING

Infrastructure

- Composting
- Landfills
- Metal Recycling
- Recycling Center
- Tire Disposal
- Transfer Station



CURRENT PLANNING

Materials Management

- Minimize Waste
- Traditional Materials Recycling and Diversi
- Non-traditional Materials Management



CURRENT PLANNING

Management Recommendations

- Waste processing
- Disposal
- Recycling
- Composting
- Landfills
- Metal Recycling
- Recycling Center
- Tire Disposal
- Transfer Station
- Education and Outreach
- Surveys/ Data

PUBLIC EDUCATION AND OUTREACH



Information and Messaging

Align with county goals



Public Meetings

Involve public during the planning process



Waste Pickup Events

Coordinated by county/agency or collaborate with local businesses



School Programs

Assessment of school programs
Needs from schools/districts

FUTURE PLANNING AND TIMELINE



Return Solid Waste & Recycling
Surveys/Worksheets

April 1, 2024



Meeting 3

May 2024



Draft Release

June 2024



Final Review

August 2024

Thank you!

- <https://greateregypt.org/solid-waste-planning/>