



OTTAWA • SANDUSKY • SENECA
JOINT SOLID WASTE MANAGEMENT
DISTRICT



2017 – 2031
ADOPTED SOLID WASTE
MANAGEMENT PLAN UPDATE

August 17, 2016

Prepared by:



**OTTAWA-SANDUSKY-SENECA
JOINT SOLID WASTE MANAGEMENT DISTRICT**

2017 – 2031 ADOPTED PLAN UPDATE

Table of Contents

<u>Section</u>	<u>Page</u>
I. INTRODUCTION	I-1
A. Plan Approval Date, Counties in District, and Planning Period Length	I-1
B. Reason for Plan Submittal	I-1
C. Process to Determine Material Change in Circumstances and Amend the Plan	I-1
D. District Formation and Certification Statement.....	I-3
E. Policy Committee Members	I-4
F. Board of Directors	I-5
G. District Address and Phone Number.....	I-6
H. Technical Advisory Council and Other Subcommittees	I-6
I. Policy Committee Review of Plan Update.....	I-6
II. EXECUTIVE SUMMARY.....	II-1
A. Section I. Introduction	II-2
B. Section III. Inventories	II-4
C. Section IV. Reference Year Population, Waste Generation and Waste Reduction	II-5
D. Section V. Planning Period Projections and Strategies.....	II-7
E. Section VI. Methods of Management: Facilities and Programs to be Used	II-10
F. Section VII. Measurement of Progress Toward Waste Reduction Goals	II-12
G. Section VIII. Cost of Financing Plan Implementation	II-13
H. Section IX. District Rules	II-18
III. INVENTORIES	III-1
A. The Reference Year.....	III-1
B. Existing Solid Waste Landfills	III-1
C. Existing Incinerators and Resource Recovery Facilities	III-3
D. Existing Transfer Facilities	III-3
E. Existing Recycling and Household Hazardous Waste Collection Activities	III-4
F. Existing Composting/Yard Waste Management Facilities.....	III-10

<u>Section</u>	<u>Page</u>
G. Out-of-State Facilities Used by the District	III-11
H. Existing Open Dumps and Waste Tire Dumps.....	III-11
I. Ash, Foundry Sand, and Slag Disposal Sites	III-13
J. Map of Facilities and Sites	III-14
K. Existing Collection Systems – Haulers.....	III-15
IV. REFERENCE YEAR POPULATION, WASTE GENERATION AND WASTE REDUCTION	IV-1
A. Reference Year Population and Residential/Commercial Waste Generation	IV-1
B. Residential/Commercial Waste Generation	IV-1
C. Industrial Waste Generation	IV-2
D. Exempt Waste	IV-5
E. Total Waste Generation	IV-5
F. Reference Year Waste Reduction	IV-5
G. Existing Waste Reduction/Recycling Activities for the Residential, Commercial and Industrial Sectors	IV-10
H. Total Waste Generation: Historical Trends Plus Waste Reduction	IV-88
I. Reconciliation of Waste Generation.....	IV-91
J. Waste Composition.....	IV-93
V. PLANNING PERIOD PROJECTIONS AND STRATEGIES.....	V-1
A. Planning Period	V-1
B. Population Projections	V-1
C. Waste Generation Projections	V-2
D. Projections for Waste Stream Composition	V-7
E. Waste Reduction and Recycling Strategies through the Planning Period	V-7
VI. METHODS OF MANAGEMENT: FACILITIES AND PROGRAMS TO BE USED.....	VI-1
A. District Methods for Management of Solid Waste	VI-1
B. Demonstration of Access to Capacity	VI-5
C. Schedule for Facilities and Programs: New, Expansions, Closures, Continuations.....	VI-6
D. Identification and Designation of Facilities	VI-6
E. Authorization Statement to Designate	VI-7
F. Waiver Process for the Use of Undesignated Facilities	VI-7
G. Siting Strategy for Facilities	VI-8
H. Contingencies for Capacity Assurance and District Program Implementation	VI-10

<u>Section</u>	<u>Page</u>
VII. MEASUREMENT OF PROGRESS TOWARD WASTE REDUCTION GOALS.....	VII-1
A. Compliance with Goal #1	VII-1
B. Demonstration of Compliance with Goal #1	VII-1
C. Targets for Reduction and Recycling.....	VII-11
VIII. COST OF FINANCING PLAN IMPLEMENTATION.....	VIII-1
A. Funding Mechanisms.....	VIII-1
B. Cost of Plan Implementation.....	VIII-6
C. Funds Allocated from ORC 3734.57(B), ORC 3734.572 and ORC 3734.573.....	VIII-14
D. Contingent Funding	VIII-17
E. Summary of Costs and Revenues	VIII-18
IX. DISTRICT RULES.....	IX-1
A. Existing Rules	IX-1
B. Proposed Rules	IX-4
C. Rule Approval Process	IX-8

Appendices

Appendix A	Resolution for District Formation
Appendix B	Public Notices for Public Hearing and Public Comment
Appendix C	Resolutions and Certification Statements
Appendix D	Identification of Consultants Retained for Plan Preparation
Appendix E	District Maps
Appendix F	Industrial Sector Survey Results
Appendix G	Annual Surveys
Appendix H	Sample Designation/Host Community Agreements
Appendix I	Designation Waiver Resolution
Appendix J	February 8, 2016 Ohio EPA Letter to Sunny Farms Landfill

I. Introduction

A. Plan Approval Date, Counties in District, and Planning Period Length

1. Under current approved plan:

Date of Ohio EPA approval
or order to implement: September 16, 2010

Counties within district: Ottawa, Sandusky, and
Seneca

Years in planning period: 15

2. Plan to be implemented with approval of this document:

Counties within District: Ottawa, Sandusky, and
Seneca

Years in planning period: 15

Year 1 of the planning period: 2017

B. Reason for Plan Submittal

Mandatory five-year plan update.

C. Process to Determine Material Change in Circumstances and Amend the Plan

Ohio law [ORC Section 3734.56(D)] requires the District Plan to be updated when the Ottawa, Sandusky, Seneca Joint Solid Waste Management District (District) Board of Directors (Board) determines that there has been a material change in circumstances from the circumstances addressed in the approved District Plan. If a plan update is required due to a material change in circumstances, the plan update must address those portions of the plan that need to be modified due to the material change in circumstances.

In the event that a new or undesignated solid waste transfer, disposal, recycling or resource recovery facility is subsequently designated by the Board, or a new or undesignated facility is granted a waiver which permits the undesignated facility to accept solid waste generated within the District, and such designation or waiver is documented in a designation or waiver agreement, the Board may not determine that a material change in circumstances has occurred. The Board, as part of the consideration of its

assessment of a new or undesignated facility on the District Plan, may consider whether to change its tiered disposal fees, establish a generation fee or modify its contract fee.

In determining whether a material change in circumstances has occurred, the Board will consider the following:

- a. An assessment of changes in waste generation;
- b. Capacity availability for disposal, transfer, composting, and management of restricted waste streams;
- c. Strategies for waste reduction and/or recycling;
- d. Substantial changes in the availability of waste reduction and recycling opportunities available to District residents;
- e. The availability of revenues for Plan implementation;
- f. Procedures to be followed for Plan implementation;
- g. Timetable for implementation of programs and/or activities;
- h. Facility designations and the flow of waste (the addition or removal of a facility from the designated list is not a material change in circumstances); and
- i. Any other factor that the Board considers relevant.

The Determination Criteria will be evaluated on the basis of the District Policy Committee's annual review of the approved Plan, and/or information obtained through the District Staff's monitoring program. The staff monitoring program includes the following:

- a. Quarterly analysis of District revenues;
- b. Analysis of information acquired by District Staff for preparation of the District's Annual Report;
- c. Information acquired by District Staff through follow-up investigations of citizen complaints which indicate the existence of deviations from or noncompliance with the District Plan; and
- d. Analysis of information voluntarily provided to the District Staff by state or local officials and employees, or owners and operators of solid waste collection, disposal, transfer, recycling activities, or

resource recovery facilities, which indicate the existence of major deviations from and/or noncompliance with the District's Plan.

The Policy Committee or the District's Staff will immediately notify the Board of any reliable information that suggests that a change in circumstances has occurred that warrants the Board's consideration of whether a material change in circumstances has occurred.

Within 10 days from receipt of notification from the Policy Committee or the District Staff that there may be a material change in circumstances, the District's Board of Directors will request the District Staff to prepare a report which discusses the events or conditions that have changed as identified in the notice to the Board and apply the criteria listed in paragraph 1, above. The District Staff will prepare the report and submit it to the Board of Directors within 30 days of the Board's request. Within 10 days after the receipt of the District Staff's report, the Board will determine whether additional information is necessary for the Board to determine whether a material change has occurred. If the Board determines that additional information is required, the District Staff will revise its report to include such additional information and submit its revised report within 20 days from the Board's request for additional information.

Within 60 days after the Board's receipt of the District Staff's revised and final report, the Board will make a determination of whether the changed circumstances are material pursuant to the criteria listed in paragraph 1, above. The Board may obtain such additional information from sources other than the District Staff as the Board deems necessary and appropriate to assist the Board in its determination of whether a material change in circumstances has occurred.

Upon the Board's determination that a material change in circumstances has occurred, the Board shall notify the District Policy Committee and the Director of the Ohio Environmental Protection Agency, in writing, within 10 days of the Board's determination. The Board's notice to the Policy Committee shall request the District Policy Committee to prepare a draft amended solid waste plan, pursuant to ORC 3734.56 (D), that addresses those portions of the District's Plan that the Board has determined may be affected, directly or indirectly, by the material change in circumstances.

D. District Formation and Certification Statement

The District formed in March, 1989. A copy of the resolution to establish the District is submitted in Appendix A. All public notices in local newspapers publicizing hearings and comments on the *Plan Update* are included in Appendix B. A certification statement signed by members of the Board asserting that the contents of the *Plan Update* are true and accurate

is included in Appendix C. The certification statement was signed by a majority of the Board members for both the draft amended *Plan Update* and the ratified draft amended *Plan Update*. Appendix C also includes resolutions by the Board adopting the *Plan Update* prior to ratification and certifying that the *Plan Update* has been properly ratified. A list of all political jurisdictions in the District which voted on the *Plan Update* ratification, their populations, and the percentage of the population represented by the political jurisdictions which ratified the *Plan Update* is included in Appendix C.

E. Policy Committee Members

The Policy Committee for the District is comprised of seven members from each District county. These members will include:

The president of the board of county commissioners or their designee

The mayor, or a representative chosen to act on his/her behalf, of the largest city in each county

A member representing the townships within each county chosen by a majority of the boards of township trustees within the county

The health commissioner, or a representative appointed by the health commissioner to act on his/her behalf

Two public members representing the general interests of citizens who have no conflict of interest through affiliation with a waste management company or significant generator of solid wastes

One industrial representative to act on behalf of the industries located within that county

The following committee members are listed in accordance with the political jurisdictions and constituencies they represent:

Ottawa County	
Policy Committee Member	Representing
Jim Sass	<i>County Commissioner</i>
Tracy Colston	<i>Interests of the City of Port Clinton</i>
Vic Harder	<i>Interests of Townships</i>
Nancy Osborn	<i>Interest of the Health Department</i>
John Logsdon	<i>Interests of Industries</i>
James Warrick	<i>General Interests of Citizens</i>
Jan Gluth	<i>General Interests of Citizens</i>

Sandusky County	
Policy Committee Member	Representing
Dan Polter	<i>County Commissioners</i>
Jim Ellis	<i>Interests of the City of Fremont</i>
John Havens	<i>Interests of Townships</i>
Dave Pollick	<i>Interest of the Health Department</i>
Duke Fultz	<i>Interests of Industries</i>
Todd Warner	<i>General Interests of Citizens</i>
Donald Elswick	<i>General Interests of Citizens</i>

Seneca County	
Policy Committee Member	Representing
Holly Stacy	<i>County Commissioners</i>
Aaron Montz	<i>Interests of the City of Tiffin</i>
Gwen Stallard	<i>Interests of Industries</i>
Laura Wallrabenstein	<i>Interest of the Health Department</i>
Jason Painter	<i>Interests of Townships</i>
Leanne Smith	<i>General Interests of Citizens</i>
Paul Harrison	<i>General Interests of Citizens</i>

F. Board of Directors

The following board members are listed according to the counties they represent:

Commissioner	County
Steve Arndt	Ottawa
Jo Ellen Regal	
Jim Sass	

Commissioner	County
Charlie Schwochow	Sandusky
Dan Polter	
Terry Thatcher	
Holly Stacy	Seneca
Jeff Wagner	
Fred Zoeller	

G. District Address and Phone Number

Address: OSS Joint Solid Waste Management District (Main Office)
 1875 East State Street
 Fremont, OH 43420

Contact: Mr. Tim Wasserman
 Executive Director

Phone: (419) 334-7222
 Toll Free: (888) 850-7224
 Fax: (419) 334-8626
 Email: tw@recycleoss.org

H. Technical Advisory Council and Other Subcommittees

The District did not establish a Technical Advisory Committee during the preparation of the *Plan Update*.

I. Policy Committee Review of Plan Update

The Policy Committee shall annually review implementation of the *Plan Update* under section 3734.55 of the Ohio Revised Code and report its findings and recommendations regarding implementation of the plan to the District’s Board of Directors.

II. Executive Summary

The Ottawa, Sandusky, Seneca Joint Solid Waste Management District (District) is required by Section 3734.54 of the Ohio Revised Code (ORC) to periodically update its solid waste management plan (*Plan Update*). This *Plan Update* will cover a fifteen year planning period beginning in 2017 and ending in 2031. This *Plan Update* includes a description of District programs and projections for solid waste generation, recycling and disposal for fifteen years. It also identifies the District’s strategies for managing the District’s facilities and programs and provides an assessment on achieving statewide recycling and waste reduction goals. This *Plan Update* follows Ohio EPA’s Format version 3.0. The Format requires specific narrative information and data tables. There are nine major sections to the Plan Format.

Section I

- Includes basic information about the District and an important section on determining when material changes would require an amendment to the *Plan Update*.

Section II

- An Executive Summary which includes brief narrative descriptions of each section in the *Plan Update*.

Section III

- Includes an inventory of facilities, activities, and haulers used by the District in the reference year (2013).

Section IV

- Includes the reference year statistics for the *Plan Update* including population data, waste generation and waste reduction estimates for the residential/commercial sector and the industrial sector.

Section V

- Includes projections of population, waste generation and waste reduction for each year of the planning period.

Section VI

- Includes the District’s management of facilities and programs to be used by the District throughout the planning period.

Section VII

- Presents how the District meets the state waste reduction and recycling goals.

Section VIII

- Includes a presentation of the financial resources of the District necessary to implement this Plan.

Section IX

- District rules proposed, approved and authorized for adoption are presented by the District

This Executive Summary provides an overview of each section of the *Plan Update*.

A. Section I. Introduction

The District was formed in March of 1989. The District is comprised of the following counties: Ottawa, Sandusky and Seneca. The District includes all incorporated and unincorporated territory within the member political subdivisions.

Board of Directors of the Ottawa, Sandusky, Seneca Joint Solid Waste Management District

The Board of Directors governs the District and is responsible for implementing the solid waste plan developed by the Policy Committee. The following board members are listed according to the counties they represent:

Commissioner	County
Steve Arndt	Ottawa
Jo Ellen Regal	
Jim Sass	
Charlie Schwochow	Sandusky
Dan Polter	
Terry Thatcher	
Holly Stacy	Seneca
Jeff Wagner	
Fred Zoeller	

Policy Committee Members

The Policy Committee prepares the solid waste management plan, monitors implementation of the Plan and adjusts the District fees as appropriate. The following Policy Committee members are listed in accordance with the political jurisdictions and constituencies they represent:

Ottawa County	
Policy Committee Member	Representing
Jim Sass	<i>County Commissioner</i>
Tracy Colston	<i>Interests of the City of Port Clinton</i>
Vic Harder	<i>Interests of Townships</i>
Nancy Osborn	<i>Interest of the Health Department</i>
John Logsdon	<i>Interests of Industries</i>
James Warrick	<i>General Interests of Citizens</i>
Jan Gluth	<i>General Interests of Citizens</i>

Sandusky County	
Policy Committee Member	Representing
Dan Polter	<i>County Commissioners</i>
Jim Ellis	<i>Interests of the City of Fremont</i>
John Havens	<i>Interests of Townships</i>
Dave Pollick	<i>Interest of the Health Department</i>
Duke Fultz	<i>Interests of Industries</i>
Todd Warner	<i>General Interests of Citizens</i>
Donald Elswick	<i>General Interests of Citizens</i>

Seneca County	
Policy Committee Member	Representing
Holly Stacy	<i>County Commissioners</i>
Aaron Montz	<i>Interests of the City of Tiffin</i>
Gwen Stallard	<i>Interests of Industries</i>
Laura Wallrabenstein	<i>Interest of the Health Department</i>
Jason Painter	<i>Interests of Townships</i>
Leanne Smith	<i>General Interests of Citizens</i>
Paul Harrison	<i>General Interests of Citizens</i>

The current Plan, based on a reference year of 2007, was approved by Ohio EPA on September 16, 2010, and includes a fifteen year planning period from 2010 to 2024. This *Plan Update* uses a reference year of 2013 and includes a fifteen year planning period from 2017 to 2031.

Process to Determine Material Change in Circumstances and Amend the Plan

Section I of the *Plan Update* outlines the process which will be used by the District to determine when a material change in circumstance has occurred. If a material change in circumstances occurs, a plan amendment is required by Ohio law (ORC Section 3734.56 (D)). The District plan must be updated "...when the board of county commissioners...or board of directors...determines that circumstances materially changed from those addressed in the approved initial or amended plan of the district...."

A material change in circumstances shall be defined as a change that adversely affects the ability of the Board to implement the Solid Waste Plan. The criteria used to make the determination of material change are as follows:

Criteria to Determine Material Change in Circumstances



In accordance with ORC 3734.56(D), the *Plan Update* must be revised if the Board has determined that “circumstances materially changed from those addressed in the approved initial or amended plan of the district.” A material change in circumstances shall be defined as a change that adversely affects the ability of the Board to: (1) assure waste disposal capacity during the planning period; (2) maintain compliance with applicable waste reduction or access goals; or (3) adequately finance implementation of the *Plan Update*. This process is described in detail in Section I of this *Plan Update*.

B. Section III. Inventories

Section III provides an inventory of facilities, programs and activities that operated during the reference year (2013) of the *Plan Update*. Inventories include the following:

- Landfills
- Transfer Facilities
- Incinerators and Waste-to-Energy Facilities
- Recycling Programs
- Collection Programs
- Composting Facilities and Programs
- Open Dumps and Waste Tire Dumps
- Ash, Slag and Foundry Sand Disposal Sites
- Solid Waste Haulers

C. Section IV. Reference Year Population, Waste Generation and Waste Reduction

1. Reference Year Population

The 2013 District population estimate of 157,165 was calculated using the Ohio Development Services Agency (ODSA) Office of Research document, *2013 Population Estimates by County, City, Village & Township*, May 2014. Based upon requirements in Ohio law, population adjustments were made for political subdivisions located partially within the District and partially within surrounding solid waste districts. The District's total adjusted 2013 population was 164,743 residents.

2. Waste Generation

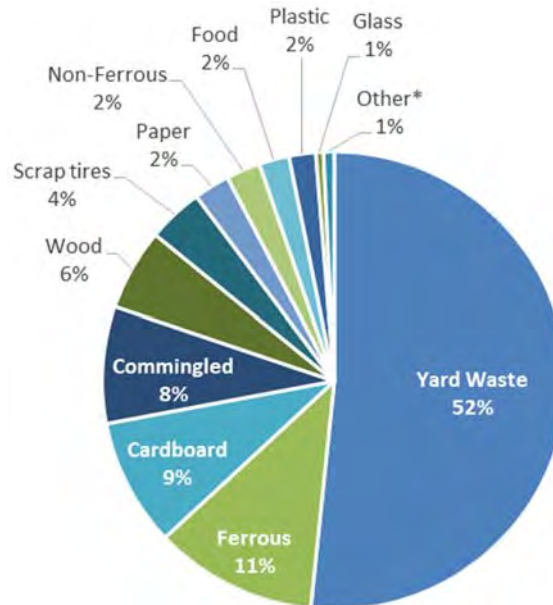
Overall, District residents, businesses, and industry generated 338,155 tons, which is a generation rate of 11.25 pounds per person per day. The residential/commercial sector generated 165,332 tons or 5.50 pounds per person per day, which includes disposal, recycling, and yard waste composting. The industrial sector generated 136,916 tons or approximately 4.55 pounds per person per day. Exempt waste generation was 35,906 tons or approximately 1.19 pounds per person per day.

3. Reference Year Waste Reduction

The residential/commercial sector reduced approximately 42,143 tons of materials in 2013. Residential/commercial waste reduction includes residential recycling activities such as curbside and drop-off collection; District sponsored special collection; commercial recycling completed by commercial entities operating within the District; and composting.

The following graph depicts the residential and commercial waste reduction totals as a percentage for 2013:

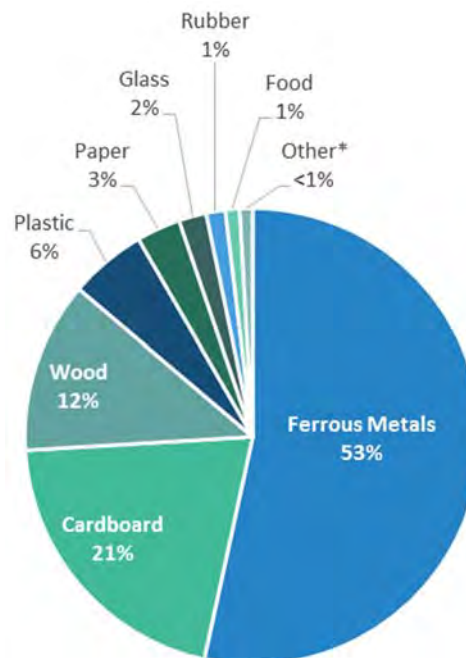
2013 Residential/Commercial Waste Reduction



**Other recycling comprised of HHW, electronics, batteries, appliances, used oil, textiles, and waste reduction via incineration.*

The industrial sector recycled approximately 95,045 tons of materials in 2013. The following graph depicts the industrial waste reduction totals as a percentage for 2013.

2013 Industrial Waste Reduction



**Other includes non-ferrous metals, non-exempt foundry sand, appliances, waste reduction via incineration, miscellaneous materials, and tires.*

Section IV provides descriptions and details of each reduction/recycling program or activity available to the residential/commercial and industrial sectors during 2013, and an analysis of the strengths and challenges of each program.

D. Section V. Planning Period Projections and Strategies

Section V details (1) population projections for the District, during the planning period (2017-2031); (2) projections and estimates for solid waste generation; (3) projected recycling rates for the planning period; and (4) existing District programs and activities that are assumed to be continuing will be presented and analyzed.

1. Population Projections

The District anticipates the population to decrease annually throughout the planning period. Population is expected to decrease by 8,813 residents or 5.41% from 2017 to 2031. The District is projected to start the planning period in 2017 with a population of 162,804 and end in 2031 with a total population of 153,992.

2. Waste Generation Projections

Residential/Commercial Sector

The total residential/commercial waste generation for 2013 (which includes recycling/reduction plus disposal) was 165,332 tons. Overall waste generation is projected to initially decrease from 2013 to 2016, then increase throughout the remainder of the planning period.

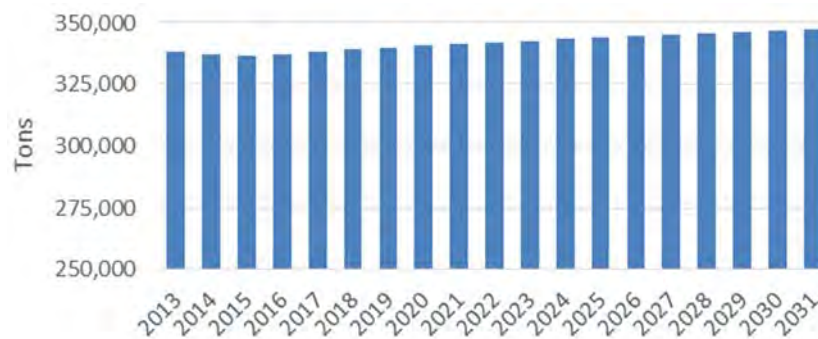
Industrial Sector

The District projects industrial waste will increase from 136,916 tons in the reference year to 138,192 tons in 2031, a 0.93% increase. The top ten manufacturing plants in the District, in terms of total tons generated, have been in operation for more than 5 years, and the District is not aware of any discussions or plans to close any of the facilities. Industrial sector activities in the District are relatively mature and stable, which supports the modestly increasing projections.

Total Waste Generation

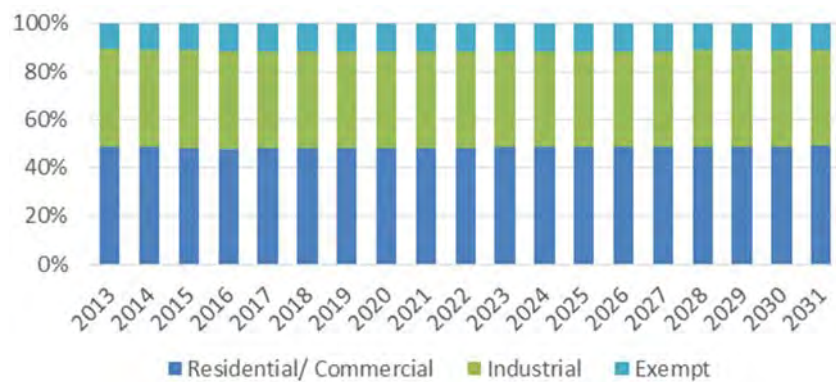
The total waste generation in the 2013 reference year was 338,155 tons. The following figure presents the District’s total waste generation projections throughout the planning period.

Total District Waste Generation (2013 – 2031)



The following figure depicts the waste generation per sector as a percentage of the total waste generation.

District Total Waste Generation (2013 – 2031)



3. Waste Reduction and Recycling Strategies through the Planning Period

The following table summarizes the District strategies for meeting the goals established in the 1995 State Plan throughout the planning period:

Program	Program #	1995 State Plan Goals						
		#1	#2	#3	#4	#5	#6	#7
Curbside Recycling	OSS-1	✓	✓					
Drop-Off Recycling	OSS-2	✓	✓					
Yard Waste Management	OSS-3	✓	✓	✓	✓			
Household Hazardous Waste Management	OSS-4	✓	✓		✓	✓		
Scrap Tire Collection	OSS-5	✓	✓		✓	✓		
Lead-Acid Battery Management	OSS-6	✓	✓		✓	✓		
Appliance Collection	OSS-7	✓	✓			✓		
Electronics Collection	OSS-8	✓	✓		✓	✓		
Material Recovery Facilities	OSS-9	✓	✓		✓			
Recycling Market Development Grant	OSS-10							✓
Competitive Funding	OSS-11							✓
City and Village Funding (CVF)	OSS-12							✓
Education and Awareness	OSS-13			✓	✓			
Commercial/Industrial Technical Assistance	OSS-14			✓	✓			
Litter Collection	OSS-15				✓			
Beach and River Clean-Ups	OSS-16				✓			
Adopt-a-Road	OSS-17							
Container Loan	OSS-18	✓	✓		✓			
Health Department Financial Support	OSS-19							
Needle Disposal Campaign	OSS-20							
Medication Take-Back	OSS-21							
Disaster Debris Management	OSS-22							
Strategic Planning	OSS-23							
Number of Strategies Per Goal		10	10	3	11	5	0	4

Residential/Commercial/Industrial Waste Reduction/Recycling and Education Strategies

The District anticipates that residential/commercial recycling will increase from 42,143 tons in 2013 to 47,668 tons in 2031. The implementation of the City of Tiffin's curbside program most heavily impacts the increase in overall residential/commercial sector recycling. The District anticipates that industrial recycling will increase from 95,045 tons in 2013 to 98,526 tons in 2031.

This *Plan Update* continues the existing programs listed in Section IV, and includes a number of expanded initiatives for these programs in order to address the challenges identified in Section IV. Specific changes to existing programs and details of new initiatives are presented in Section V.

E. Section VI. Methods of Management: Facilities and Programs to be Used

Section VI presents the District's methods for managing solid waste. It includes management methods, a siting strategy, and a demonstration of capacity for the planning period 2017 – 2031.

1. District Methods for Management of Solid Waste

The District will manage the projected waste through recycling, yard waste composting, incineration, the use of transfer stations, and landfilling. In Table VI-1, the total tons landfilled in 2013 (200,966 tons) was calculated by subtracting recycling, yard waste composting, and the volume of waste reduced by incineration. The District projects a need of 193,776 tons of landfill capacity in 2017 and 201,245 tons in 2031.

2. Demonstration of Access to Capacity

During 2013, three in-district, 10 out-of-district, and three out-of-state landfills managed 200,966 tons of solid waste generated by District residents, businesses and industries.

Regional Capacity Analysis

The District's assessment of regional landfill capacity demonstrates there is sufficient permitted capacity available to manage the District's solid waste until December 31, 2031.

The District projects an average need of approximately 197,848 tons or 296,772 cubic yards of landfill capacity annually throughout the planning period.

The landfills used by the District in 2013 had sufficient permitted airspace to dispose of an estimated 316,197,457 tons of solid waste. The Port Clinton Landfill and Sunny Farms Landfill, which are both located within the District, each have enough permitted capacity to manage the entirety of the waste generated within the District from the reference year to the end of the planning period. Overall, the

landfills used by the District in 2013 had an average remaining lifespan of more than 42 years.

3. Identification and Designation of Facilities

Through designation agreements, the District currently has designated the following facilities as the only facilities to which municipal solid waste generated in the District may be taken:

Designated Facilities - ORC 343.14	
Port Clinton Landfill, Inc.	Ottawa County, OH
Sunny Farms Landfill	Seneca County, OH
Crawford County Sanitary Landfill	Crawford County, OH
Erie County Landfill	Erie County, OH
Evergreen Recycling & Disposal Facility	Wood County, OH
Hancock County Landfill	Hancock County, OH
Huron County Transfer Station	Huron County, OH
Wood County Landfill	Wood County, OH
County Environmental Landfill of Wyandot	Wyandot County, OH

4. Siting Strategy for Facilities

While the District does not intend to site new facilities, a siting strategy has been developed to assist in the identification of sites for a District facility if the need arises. Should the District elect to own or operate a solid waste facility, or should another entity propose a facility, the siting strategy listed in Section VI will be utilized to determine an appropriate location, or confirm the selected location for a solid waste facility.

5. Contingencies for Capacity Assurance and District Program Implementation

The District will implement the contingency plan outlined in Section VI of the *Plan Update* if there is an interruption in composting, recycling, transfer facility or landfill capacity for a period of time that would be detrimental to the health and safety of District residents.

F. Section VII. Measurement of Progress Toward Waste Reduction Goals

The Ohio EPA 1995 State Plan establishes seven goals solid waste management districts (SWMDs) are required to achieve. Districts must demonstrate compliance with Goal #1 or Goal #2 in Section VII of the *Plan Update*. Goals #1 and #2 are as follows:

Goal #	Description
#1	Ensure the availability of reduction, recycling and minimization alternatives for municipal solid waste by ensuring 90% of residents have access to curbside and drop-off programs. The District must also demonstrate that there are adequate opportunities for industrial businesses to recycle.
#2	Reduce and/or recycle at least 25% of the total waste generated by the residential/commercial sector and 50% of the total waste generated by the industrial sector.

1. Compliance with Goal #1

The District will continue to comply with Goal #1: Access to Waste Management Opportunities. The District shall provide access to recycling and waste minimization opportunities for municipal solid waste to its residents and businesses.

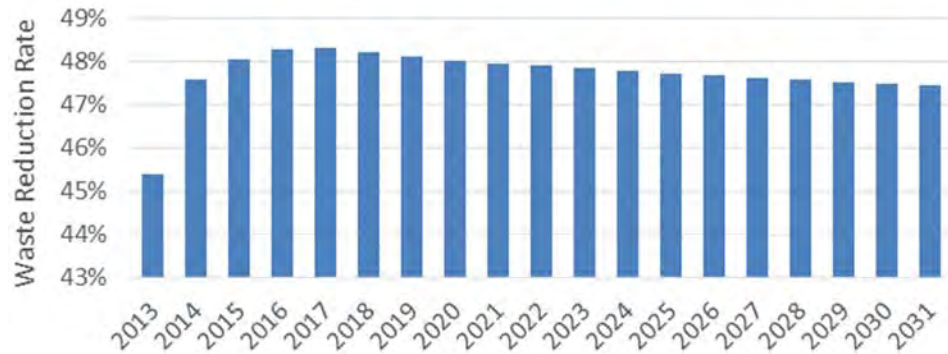
In the 2013 reference year and the first year of the planning period (2017), the District will exceed the 90% access goal.

This section also covers recycling access for commercial businesses and financial incentives to increase recycling in the District.

2. Targets for Reduction and Recycling

Overall, the District's annual waste reduction rate for the reference year (2013) was 45%. The waste reduction rate is expected to increase to 47% by the end of the planning period. The following figure shows the expected waste reduction/recycling percentage throughout the planning period.

**District Total Waste Reduction/Recycling Percentage
(2013 – 2031)**



G. Section VIII. Cost of Financing Plan Implementation

This section of the Plan provides actual and projected information on the District’s revenues and expenditures.

1. Funding Mechanisms

a. District Disposal Fees

The District has a flat \$1.50 per ton disposal fee for solid waste generated and disposed within the solid waste management district, a \$3.00 per ton disposal fee for solid waste generated outside the solid waste management district but within Ohio and disposed within the solid waste management district, and \$1.50 per ton disposal fee for solid waste generated outside of Ohio and disposed within the solid waste management district.

The District received \$1,088,838, \$1,137,74 and \$928,856 in revenue from disposal fees in 2013, 2014 and 2015, respectively. The loss of over \$208,000 (138,000 tons) in disposal fee revenues comes from the out-of-state tier fees collected. The District evaluated why this loss occurred. The following analysis shows that a significant change in solid waste vs. construction demolition debris (CDD) categorization has occurred from 2014 to 2015 at the Sunny Farms Landfill:

2014	68% Solid Waste	32% CDD
2015	44% Solid Waste	56% CDD (Through Sept.)

The characterization of solid waste and CDD has been an issue in the past. The District and Ohio EPA have evaluated

the incoming materials that Sunny Farms accepts and has determined that more than 60% of the receipts are classified as unidentifiable. According to Ohio EPA, if incoming materials are unidentifiable, then they are considered solid waste and not CDD.

In 2015, in a two-month period, the characterization of incoming materials to the Sunny Farms Landfill went from 62% solid waste and 38% CDD to 35% solid waste and 65% CDD. The District notified Ohio EPA of this situation. In February of 2016, Ohio EPA notified Sunny Farms Landfill that, over a 3-day period, Sunny Farms had incorrectly characterized 45 loads of material accepted at the landfill (See Appendix J). A total of 1,174.42 tons needed to be reclassified from CDD to solid waste. The District extrapolated the 4-day sample above to an annual total of 101,783 tons (\$152,674 in fee revenue) of mischaracterized materials. The District assumes this issue will be resolved between Ohio EPA and Sunny Farms in the same manner as in the past.

For the purposes of this *Plan Update*, the District assumes that the loss in out-of-state revenue will be resolved in 2016 and an additional 101,783 tons (or more) of solid waste that was previously characterized as CDD will yield additional fee revenue for the District.

Based on the discussion above, the District anticipated that \$1,085,724 would be received in disposal fees for 2016.

b. Generation Fee

The District does not have a generation fee.

c. Host Community Fees

Sunny Farms Landfill entered into an agreement with the District to begin paying a host community fee of \$0.25 per ton on out-of-state waste accepted at the landfill in 2014. The fee increases to \$0.50 per ton of out-of-state waste beginning in 2015. In 2014, \$130,523 in host community fees and in 2015 \$199,315 (Table VIII-3). In 2017, the District anticipates that host community fees will generate \$276,407 in revenue. Revenue from these fees are anticipated to increase 1% annually, ending in 2031 with \$304,834 in host community fees.

d. Designation Fees

In accordance with ORC 343.022, the District has negotiated fees by contracting with out-of-district landfills and transfer stations. The District charges a fee of \$1.50 per ton for solid waste accepted by out-of-district landfills and transfer stations. In 2013, designation fees totaled \$89,228. In 2014, designation fees were \$81,091 and in 2015 \$63,250. Designation fee revenue is projected to remain flat throughout the planning period.

e. Reimbursements

Reimbursements include money from over payments on invoices to contractors, rebates from purchases, revenue from the electronic collection program, revenue from scrap tire program and other minor miscellaneous revenue. Reimbursements from 2013 to 2015 averaged \$28,925 (minus grant revenue). Reimbursements can vary from year to year, so the District projected a conservative flat total of \$206,000 annually from 2016 to 2031.

f. Grants

Grants include money from received from grant funded projects. In grant funding, the District received \$62,500 in 2013, \$62,500 in 2014, and \$112,500 in 2015. Grant funding can vary from year to year and is not guaranteed therefore the District did not project any grant funding after 2016.

g. Interest

Interest revenue comes from the carryover balance the District maintains.

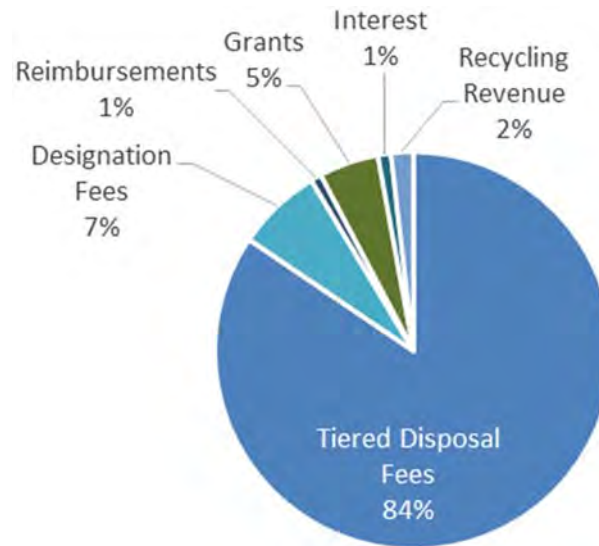
h. Recycling Revenue

Recycling revenue includes income from the District's recycling facility due to the sale of commodities. Actual revenue for 2013, 2014 and 2015 is listed in Table VIII-3. In 2015, recycling markets were very weak. Recycling markets are projected to improve; however, in an effort to estimate revenue conservatively, the District is projecting a flat \$30,000 annually in revenue, which is slightly less than the recycling revenue from 2014.

i. Total District Revenues

Actual revenue for 2013, 2014 and 2015 is listed in Table VIII-3. In 2015, recycling markets were very weak. Total revenues are anticipated to increase from \$1,499,776 in 2017 to \$1,745,440 in 2031.

Percentage of Revenue Generated in 2013 by Type of Funding Mechanism



2. Cost of Plan Implementation

A detailed breakdown of each administrative and programmatic expenditure is presented in Table VIII-5. Expenditures in 2017 are projected to be \$1.60 million. Throughout the planning period, expenditures are projected to range from \$1.60 to \$1.87 million annually.

3. Contingent Funding

The District, Policy Committee, and Board of Directors do not consider funding to be an issue of concern during this planning period. The Policy Committee would consider establishing a generation fee or other funding options if the District’s revenues and/or expenses were creating budgetary shortfalls in accordance with the guidelines in the material change of circumstances.

4. Summary of Costs and Revenues

A summary of District revenues and expenditures for each year of the planning period is included in Table VIII-8. Revenue is projected

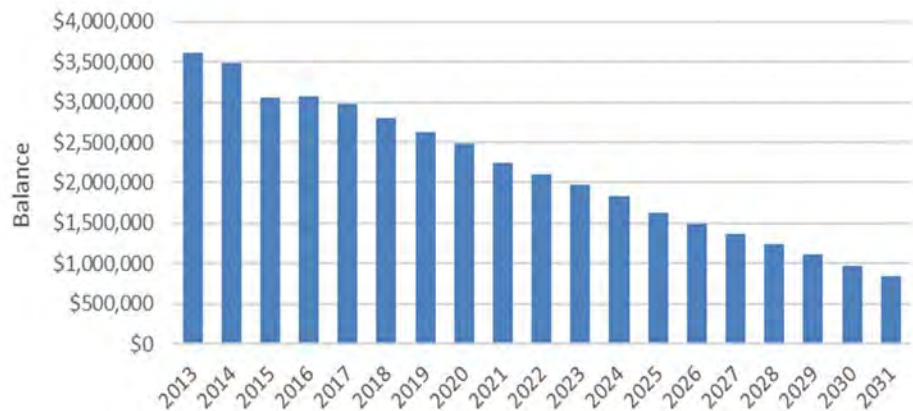
to increase from \$1,499,776 in 2017 to \$1,745,440 in 2031. Expenditures in 2017 are projected to be \$1.60 million. Throughout the planning period, expenditures are projected to range from \$1.60 to \$1.87 million annually.

District Revenue and Expenses (2013 – 2031)



The District is projected to begin the planning period with a carryover balance of \$3,070,385 and conclude the planning period with a balance of approximately \$849,836. Each year of the planning period is projected to have ample funding for each of the programs. The following figure presents the District’s ending balance from 2013 to 2031.

2013 – 2031 District Fund Balance



H. Section IX. District Rules (ORC Section 3734.53(C))

1. Existing Rules

The District maintains the authority to adopt rules consistent with the solid waste management plan adopted by the District in accordance and pursuant to Section 3734.53 (C)(1) through (C)(4) of the Revised Code. Rules adopted by the District are summarized in this section and include:

- Rule 2006-01 – Definitions
- Rule 2006-02 – Inspections of Materials Disposed in Solid Waste Landfills Located within the Jurisdiction of the Ottawa-Sandusky-Seneca Joint Solid Waste Management District.

2. Proposed Rules

At the time that this *Plan Update* was developed, the District was not proposing any new rules; however, the Policy Committee and Board of Directors may jointly develop additional District Rules or revise current rules as necessary.

**Table ES-1
General Information**

District Name: Ottawa-Sandusky-Seneca County Solid Waste Management District	
District ID: (for OEPA use only)	Reference Year: 2013
Plan Status (underline one)	
D RD DR	Approved (date) / / OI (date) / / DA
Reason for Plan Submittal: Mandatory five year update	

Abbreviations: D=draft; RD=ratified draft, DR=draft revised, OI=ordered to be implemented, DA=draft amended

**Table ES-2
District/Coordinator/Office**

Name:	Mr. Tim Wasserman		
Address:	1875 E. State Street		
City:	Fremont	State: Ohio	Zip: 43420
Phone:	(419) 334-7222		
	Fax: (419) 334-8626		

Table ES-3
Plan Data Summary

Plan Data		Reference Year 2013	2021 (Year 5)	2026 (Year 10)	2031 (Year 15)
Population		164,743	160,677	157,313	153,992
Generation	Industrial	136,916	137,503	137,847	138,192
	Residential/Commercial	165,332	164,711	167,477	170,026
	Exempt	35,906	39,221	39,221	39,221
Total Generation (tons)		338,155	341,435	344,545	347,439
Waste Reduction	Industrial Source Reduction	516	524	529	535
	Industrial Recycling	94,529	96,053	97,017	97,991
	Res/Comm Source Reduction	0.29	0.29	0.28	0.27
	Res/Comm Recycling	20,385	21,124	20,771	20,421
	Yard Waste Composting	21,758	27,247	27,247	27,247
Total Waste Reduction (tons)		137,188	144,948	145,564	146,194
Disposal	In-District Landfills	136,376	133,336	157,170	159,170
	Out-of-District Landfills	64,338	62,904	41,562	41,823
	Out-of-State Landfills	252	247	250	253
Total Landfill (tons)		200,966	196,486	198,981	201,245
Waste Reduction Rate	Industrial	69.4%	70.2%	70.8%	71.3%
	Residential/Commercial	25.5%	29.4%	28.7%	28.0%

Source(s) of information: Tables IV-1, IV-5, IV-6, V-2, V-3, V-4, V-6, and VI-4A

**Table ES-4
Existing Disposal Facilities**

Name	County	District Tons	Total Tons	Years Left
In-District Landfills				
Port Clinton Landfill	Ottawa	74,967	89,440	99.40
Materion Brush Landfill	Ottawa	6,532	5,980	21.00
Sunny Farms Landfill	Seneca	54,877	980,980	23.00
Out-of-District Landfills				
Crawford County Sanitary Landfill	Crawford	22,360	189,020	10.50
Erie County Sanitary Landfill	Erie	7,446	124,020	32.00
Hancock County Sanitary Landfill	Hancock	469	110,500	34.50
Noble Road Landfill	Richland	1	833,560	9.90
Wood County Landfill	Wood	212	129,740	12.90
Evergreen Recycling & Disposal Facility	Wood	20,743	174,980	42.30
County Environmental Landfill of Wyandot	Wyandot	12,812	161,720	150.90
American Landfill	Stark	10	950,820	65.60
Carbon Limestone	Mahoning	0.05	873,600	58.70
Beech Hollow Landfill	Jackson	286	388,180	47.10
Out-of-State Landfills				
National Serv-All Landfill	Allen (IN)	31	515,303	30.02
Southside Landfill	Marion (IN)	220	637,613	28.30
Newton County Landfill	Newton (IN)	1	1,811,603	20.65
Total/Average		200,966	7,977,058	42.92

Source(s) of information: 2013 Ohio Facility Data Report Tables, Table III-1, and Table VI-4A

III. Inventories [ORC Section 3734-53(A)(1)-(4)]

This section of the *Plan Update* provides a review of the solid waste management system during the 2013 reference year. The reference year is the year used for data collection for solid waste programs, facilities and activities in the *Plan Update*. Projections developed in later sections in this *Plan Update* are based on the reference year inventories. Tables providing the narrative for Section III can be found at the end of this section.

This section of the *Plan Update* describes the facilities used to process solid waste. Information regarding collection, waste reduction, recycling and composting are presented for the reference year.

A. The Reference Year

The reference year for this *Plan Update* is 2013. All of the survey data and information presented in this *Plan Update* are based on 2013 data unless otherwise noted.

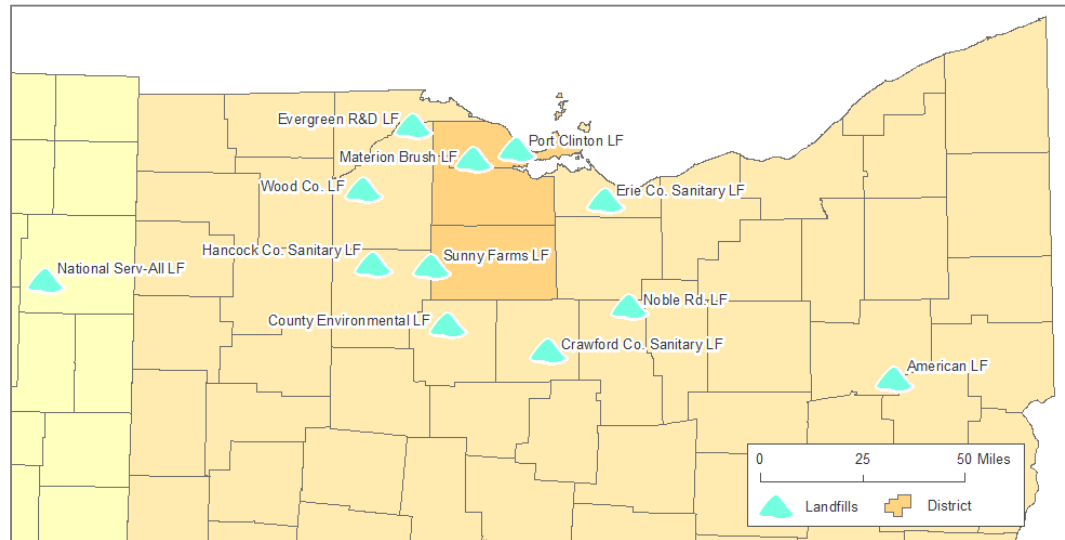
B. Existing Solid Waste Landfills

Table III-1, "Landfills Used by the District", presents a list of the landfill facilities where residential, commercial, industrial and exempt wastes were delivered directly to landfills for disposal. This table also includes the total amount of District-generated solid waste that was delivered to transfer facilities prior to being sent to a landfill.

Three in-district, eight out-of-district, and one out-of-state landfill provided disposal capacity for District waste. One of the in-district landfills was a captive industrial solid waste landfill exclusively used by one privately-owned industry. Approximately 201,482 tons of solid and exempt waste were disposed by District residents, commercial businesses, and industries during 2013. Approximately 199,594 tons was directly hauled to landfills out of the total tons landfilled. Transfer stations managed approximately 0.6% of the District's disposed waste before being landfilled.

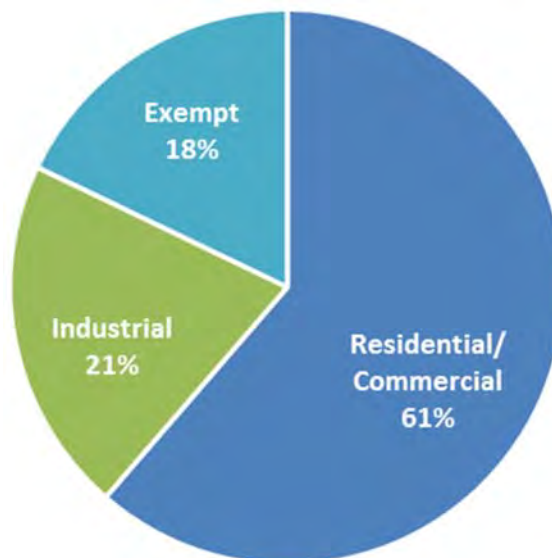
In-district landfills managed 136,376 tons or approximately 68% of the District's directly hauled solid waste and overall waste disposed in landfills during 2013. The eight out-of-district landfills managed 63,187 tons or approximately 32% of the District's directly hauled solid waste, which was approximately 31% of the overall waste disposed in landfills. One out-of-state landfill in Indiana was used to manage a negligible quantity (31 tons) of waste. The following figure presents the landfills used to manage directly-hauled District waste during the reference year.

2013 Landfills Used to Manage Directly-Hauled District Waste



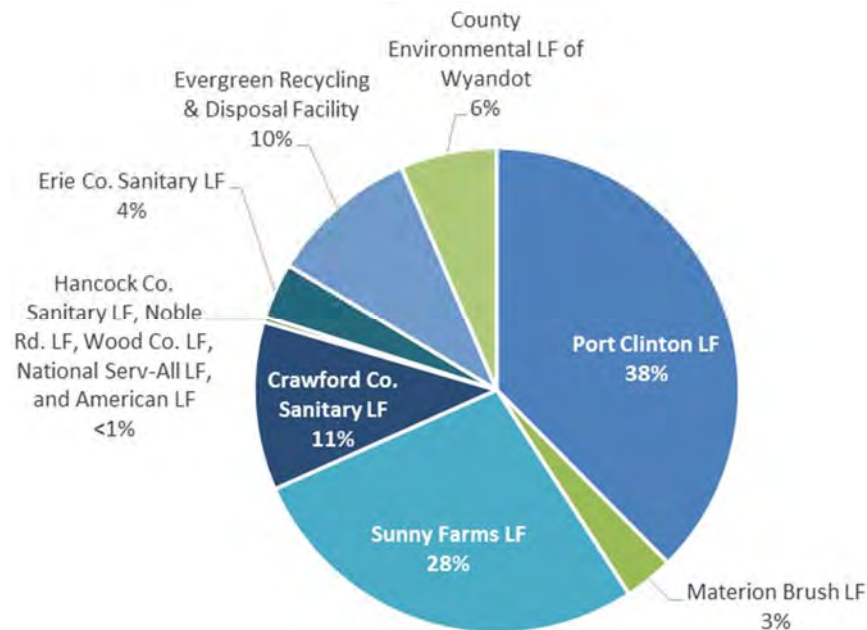
A substantial portion (18%) of the solid waste landfilled in 2013 was exempt waste. Exempt waste is fly ash, bottom ash, foundry sand, slag, or construction and demolition debris which is not subject to solid waste district fees. The following figure displays the waste tonnage landfilled by each sector during the reference year.

2013 Waste Tonnage Landfilled by Sector



The following figure shows the percentage of directly hauled waste received by each landfill:

**District Waste Received at Landfills via Direct-Hauling:
Percent by Facility**



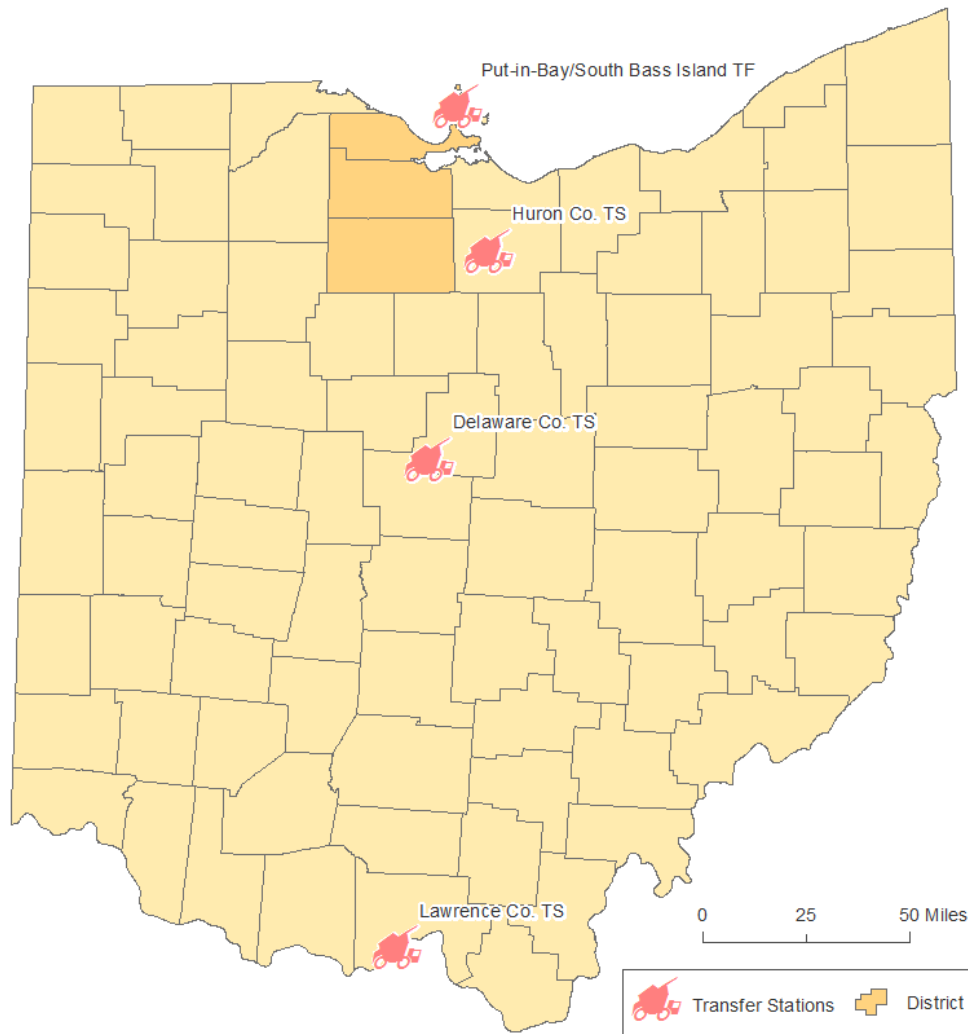
C. Existing Incinerators and Resource Recovery Facilities

Table III-2, “Solid Waste Incinerators and Waste-to-Energy Facilities Used by the District,” presents information on incinerators and waste-to-energy facilities used to manage District waste. In 2013, the District used four facilities of this nature to manage 737 tons of waste. Two facilities were categorized as medical waste processing facilities and two of the facilities were categorized at waste-to-energy facilities. One of the facilities was located outside the District in Ohio and the remaining three facilities were located in Indiana.

D. Existing Transfer Facilities

Table III-3, “Solid Waste Transfer Facilities Used by the District,” presents the transfer stations used in 2013. Transfer stations managed a negligible portion (0.6%) of District waste during the reference year. All transferred District waste was classified as residential/commercial sector waste. One in-district transfer station and three out-of-district transfer stations were used to manage 1,150 tons of waste. The following figure presents the locations of transfer stations used to manage District waste:

2013 Transfer Stations Used to Manage District Waste



E. Existing Recycling and Household Hazardous Waste Collection Activities

1. Curbside Recycling Activities

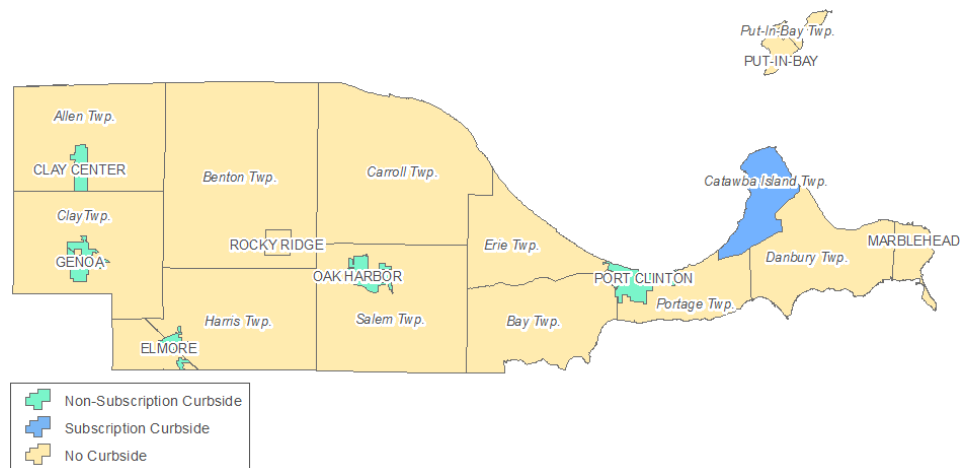
Table III-4, “Residential Curbside Recycling Activities Used by the District”, presents data for 11 political jurisdictions that operated curbside recycling programs in 2013. Eight of the curbside recycling programs were non-subscription. Three of the political jurisdictions that provided non-subscription curbside recycling also employed a pay-as-you-throw (PAYT) system for waste disposal. Three of the curbside program were subscription-based.

Some of the listings in Table III-4 differ from the information presented in the 2013 Annual District Report (ADR). The District

makes a concerted effort each year to obtain annual recycling program information from communities and service providers; occasionally, communities and service providers do not provide updated information to the District until after the ADR deadline. Information presented in this *Plan Update* should supersede the ADR and be considered the most accurate information available.

The following figure presents the locations where curbside recycling programs were available in Ottawa County:

2013 Ottawa County Curbside Recycling Programs

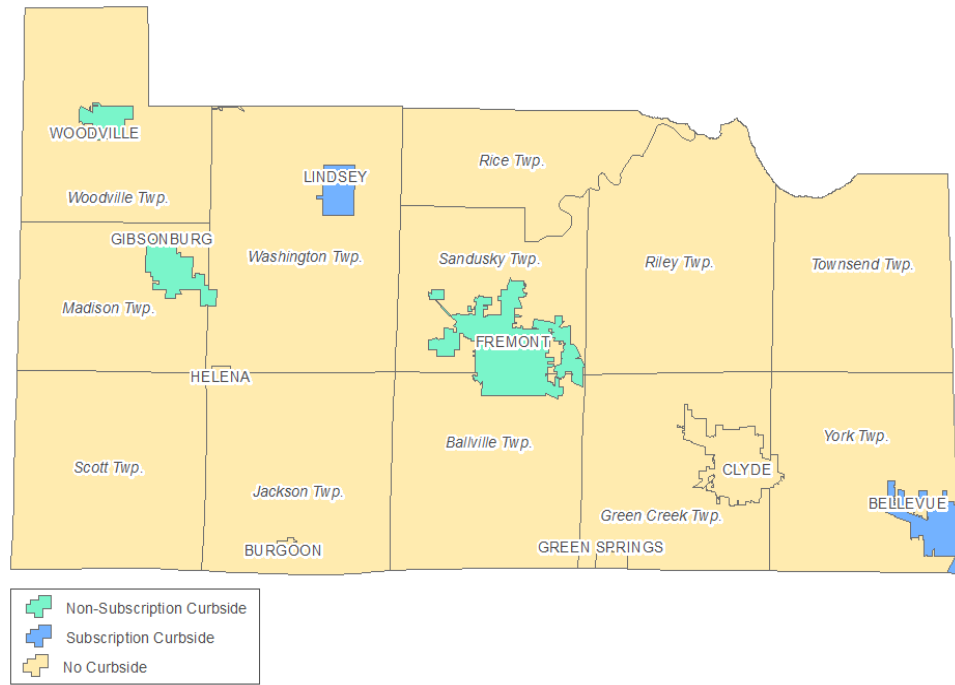


There were five non-subscription curbside recycling programs and one subscription-based curbside recycling program operating in Ottawa County during 2013.

There were no curbside programs operating during 2013 in Seneca County.

The following figure presents the locations where curbside recycling programs were available in Sandusky County:

2013 Sandusky County Curbside Recycling Programs



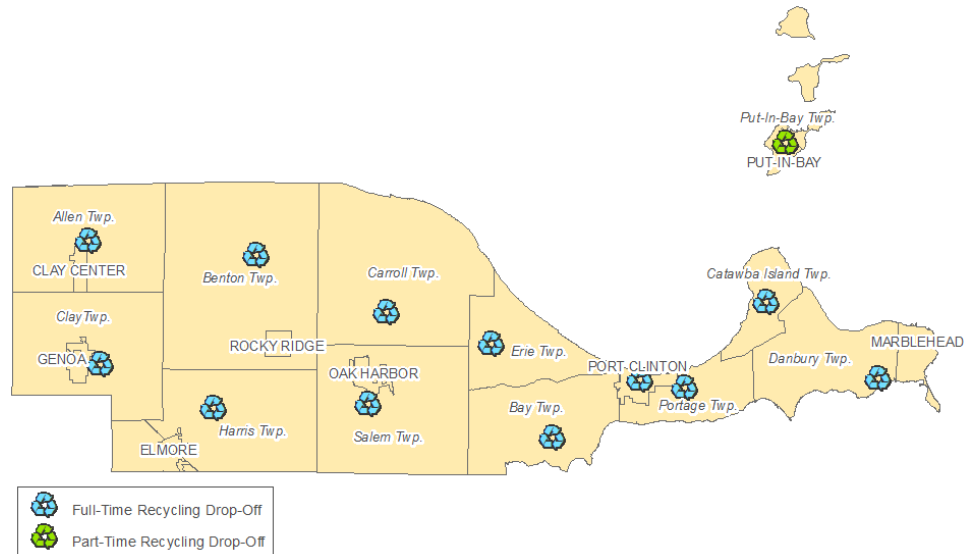
There were three non-subscription curbside recycling programs and two subscription-based curbside recycling program operating in Sandusky County during 2013.

2. Drop-Off Recycling Locations

Table III-5, “Drop-offs, Buybacks, Hauler Collection, Other Recycling Activities and HHW Collection Used by the District”, lists the drop-off recycling locations that operated during 2013. There were 41 full-time drop-offs and three part-time drop-offs that accepted aluminum cans, steel cans, glass bottles, plastics, newspaper, cardboard, magazines, office paper, and mixed paper. Full-time drop-offs were available at least 40 hours per week, while part-time drop-offs were available less than 40 hours per week. Five of the drop-off recycling sites listed in Table III-5 were inadvertently omitted from the 2013 Annual District Report, but did indeed operate during the reference year. These sites include: Townsend Township (Sandusky), Helena (Sandusky), CCC Recycling Center (Sandusky), Reed Township (Seneca), and Put-In-Bay (Ottawa).

The following figure presents the locations of drop-off centers in Ottawa County:

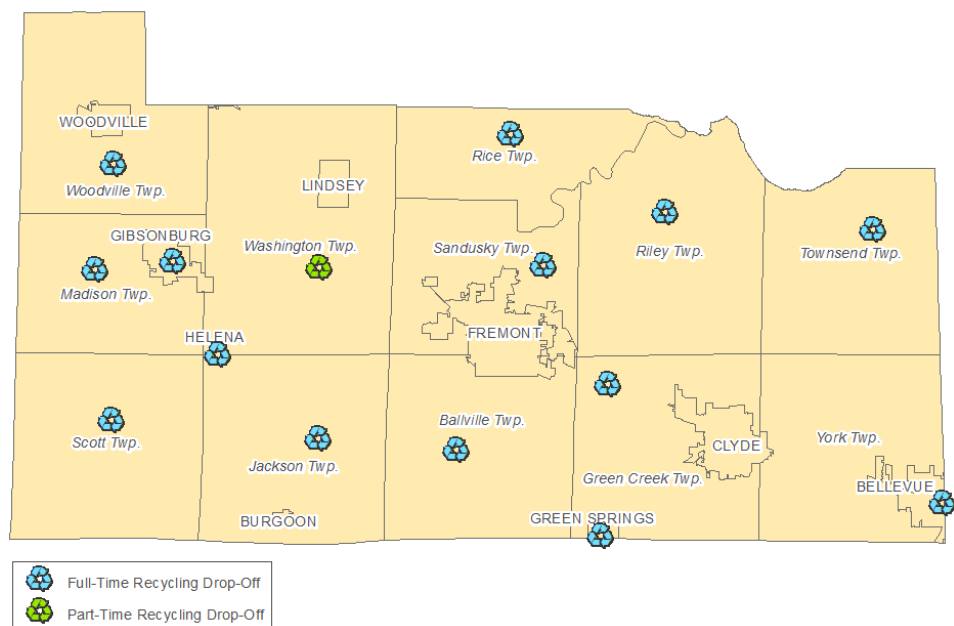
2013 Ottawa County Drop-Off Recycling Centers



A total of 12 full-time and 1 part-time drop-off recycling centers were located throughout Ottawa County during 2013.

The following figure presents the locations of drop-off centers in Sandusky County:

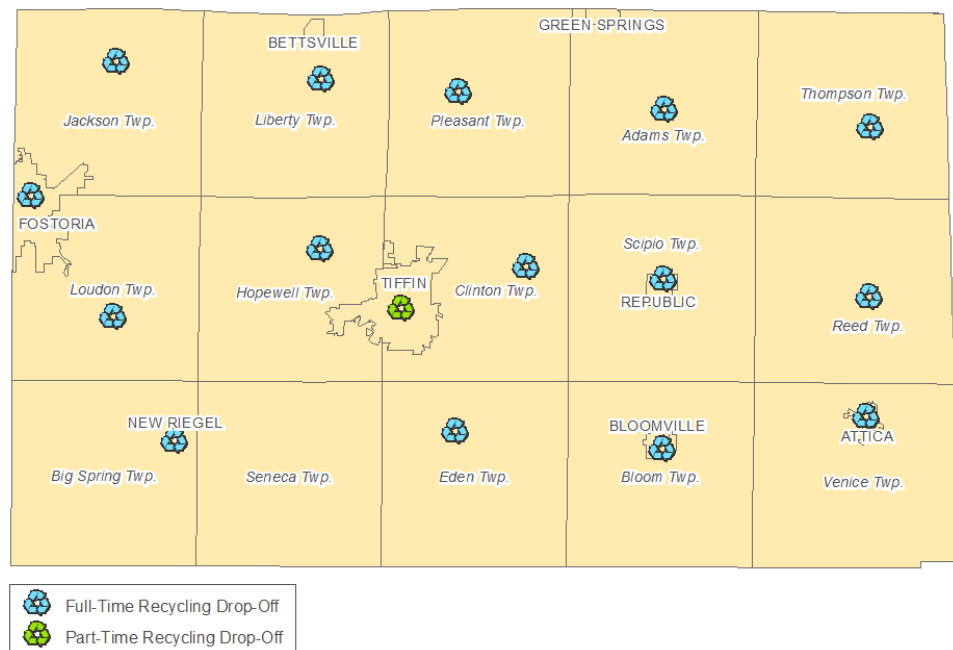
Sandusky County Drop-Off Recycling Centers



A total of 1 part-time and 14 full-time drop-off centers were located throughout Sandusky County in 2013.

The following figure presents the locations of drop-off centers in Seneca County:

Seneca County Drop-Off Recycling Centers



A total of 1 part-time and 15 full-time drop-off centers were located throughout Seneca County in 2013.

In addition to drop-offs, there were several other scrap dealers and recyclers that accepted materials from business and industry within the District. Most of the scrap dealers accepted aluminum, steel and other metals.

3. Brokers, Processors, and Buy-Back Centers

There were 42 brokers, processors, and buy-back centers that accepted materials generated within the District. These establishments were reported by generators on the District’s annual survey.

4. Commercial Box Stores

Ohio EPA annually collects recycling tonnage from a variety of commercial box stores throughout the state and publishes the tonnage by county. Examples of the stores include Walmart, Home

Depot, and Aldi’s. Commercial box stores located throughout the District reported recycling 1,513 tons of materials in 2013.

5. Tire Recyclers

Ohio EPA annually collects recycling tonnage from tire recyclers throughout the state and publishes the tonnage by county. Eight companies located in Ohio reported recycling 1,638 tons of tires from the District in 2013.

6. Hauler Recycling

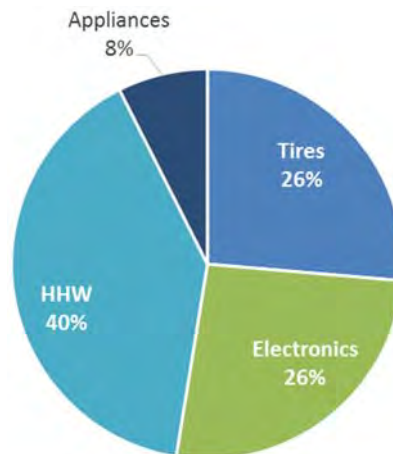
Six haulers that provided service to the District reported collecting 5,615 tons of materials in 2013.

7. Special District Collection Events

The District held special collection events for tires, electronics, HHW, and appliances during 2013. These events collected a total of 313 tons (see Table III-5). The largest portion of tonnage (40%) from the special collection events was HHW. Tires and electronics both made up 26%, and appliances represented the remaining 8% of tonnage collected.

The following figure presents the percentage of tons from each type of special collection event.

2013 District Special Collection Tonnage



The tonnage listed in Table III-5 was not adjusted for double counting; it is merely an inventory of the recycling activities that operated throughout the District in 2013. Section IV discusses the adjusted recycling totals for 2013.

F. Existing Composting/Yard Waste Management Facilities

Table III-6, "Composting/Yard Waste Management Activities Used by the District" includes fourteen in-district and four out-of-district compost facilities which were registered with Ohio EPA in 2013. The facilities located in the District were as follows:

Facility Class	Total Facilities Located in District
II	1
III	3
III/IV	1
IV	9

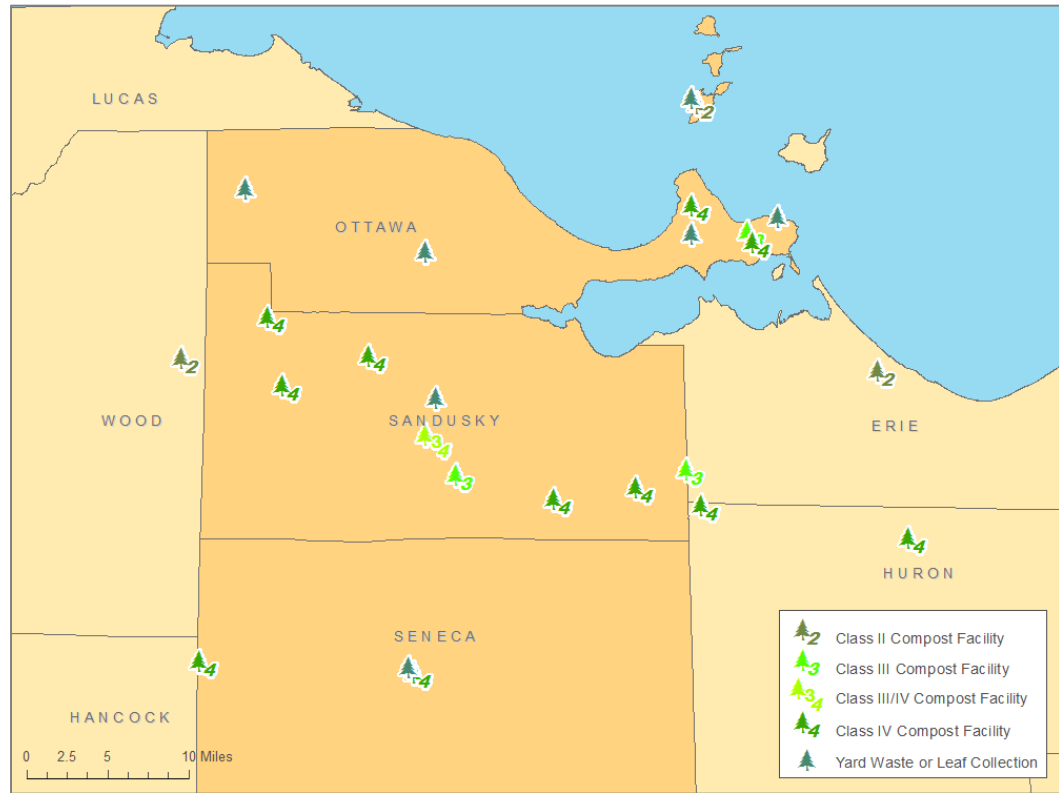
The majority of the facilities located within the District were Class IV compost facilities. Registered in-district compost facilities managed 12,353 tons of yard waste generated within the District. The out-of-district facilities reported receiving 2,850 tons of yard waste and 965 tons of food from the District. The total amount of yard waste and food waste composted by registered facilities was 16,167 tons.

Multiple political jurisdictions operated yard waste and leaf management programs. Political jurisdictions reported managing 6,555 tons of yard waste and leaves in 2013 via land application or by providing collected materials to residents for composting.

Food waste that was composted or donated was reported by a commercial box store and by haulers. A total of 852 tons of food waste was diverted from landfills in 2013.

The following figure presents the registered compost facilities and activities used to manage organic materials generated in the District during 2013.

Compost/Yard Waste Management Facilities/Activities



A total of 23,574 tons of organic material generated in the District during 2013 was diverted from landfills.

G. Out-of-State Facilities Used by the District

Table III-7, “Facilities Used by the District Which are Located Outside Ohio: Additional Data,” provides information on four Indiana-based solid waste facilities, including details about each facility’s address, owner, and operator.

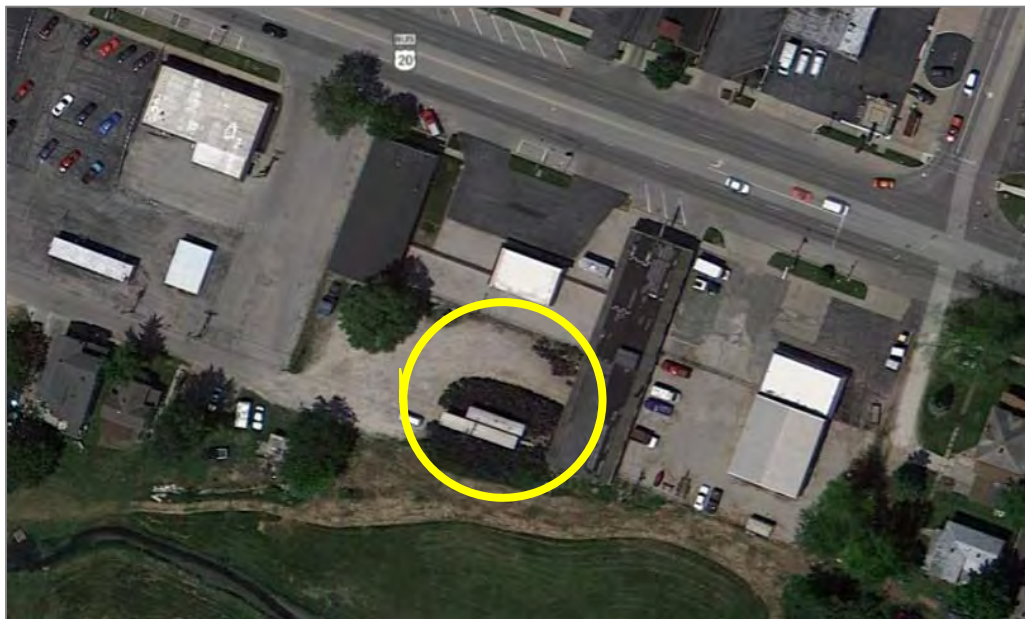
H. Existing Open Dumps and Waste Tire Dumps

The Seneca County Health District and Sandusky County Health Department have been authorized by the Ohio Environmental Protection Agency to administer Solid and Infectious Waste programs within their jurisdiction. No health departments in Ottawa County have been approved. Responsibilities of an Approved Health Department include taking appropriate actions to ensure compliance with applicable solid waste regulations. The Seneca County Health District and Sandusky County Health Department investigate open dumps and waste tire dumps and work with responsible parties and local agencies to abate solid waste-related nuisances and protect public and environmental health. Table III-8, “Open

Dumps and Waste Tire Dumps Located in the District,” includes details about each known open dump and waste tire dump located within the District. Two scrap tire dumps were located in Sandusky County and one open dump was located in Seneca County.

The following figure presents one of the scrap tire dumps (circled in yellow) in Sandusky County located at Nu-Tire & Retread Center in Fremont, Ohio. The site was reported in March of 2012 and is involved with Ohio EPA litigation.

Nu-Tire & Retread Center Scrap Tire Dump (Fremont, Ohio)



Source: Google Earth, 2015

An open dump located on a residential property in Seneca County is presented in the following figure. The property, which was reported in 2008, is littered with mixed solid waste, automobile parts, junk vehicles, and scrap tires. A consent order was issued by the Seneca County Court of Common Pleas for the purpose of cleaning up the property by October 1, 2015.

Seneca County Open Dump (5287 West TR 36, Kansas, Ohio)

Source: Google Earth, 2015

I. Ash, Foundry Sand and Slag Disposal Sites

Table III-9, "Ash, Foundry Sand, and Slag Disposal Sites Used by the District," includes the disposal sites known to be operating during the reference year. There were no known ash, foundry sand slag sites in or outside the District that managed these materials from District generators. There was one waste lime disposal site identified in Seneca County. The following figure presents an aerial view of the mining operation and waste lime disposal site located in Seneca County at Carmeuse Lime and Stone (Bettville, Ohio).

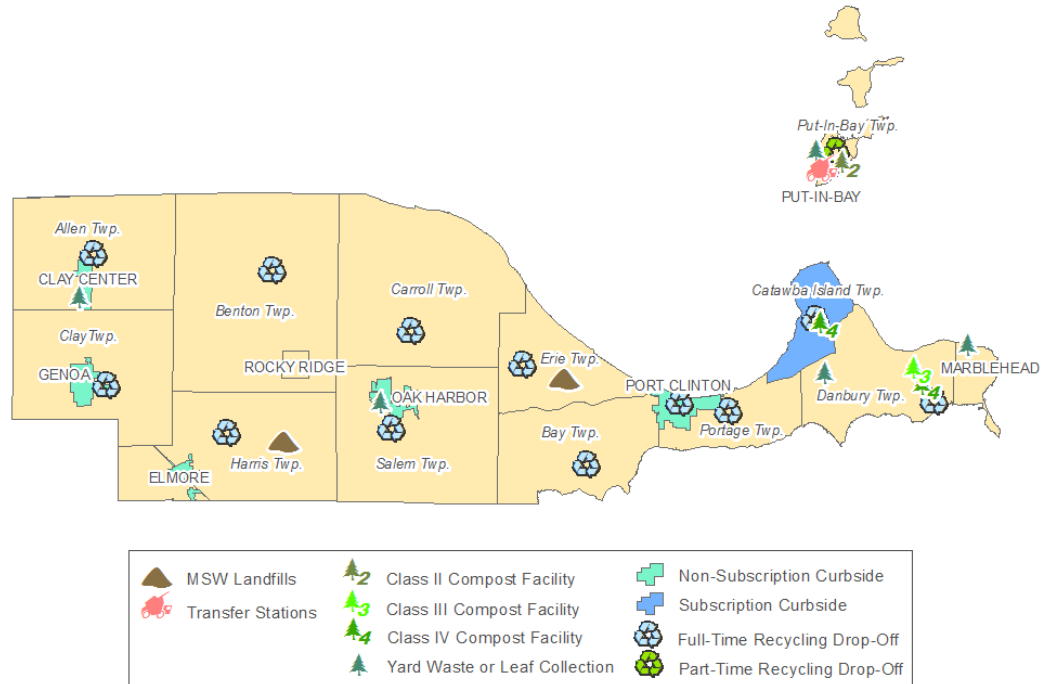
Waste Lime Dump at Carmeuse Lime and Stone (Bettville, Ohio)

Source: Google Earth, 2015

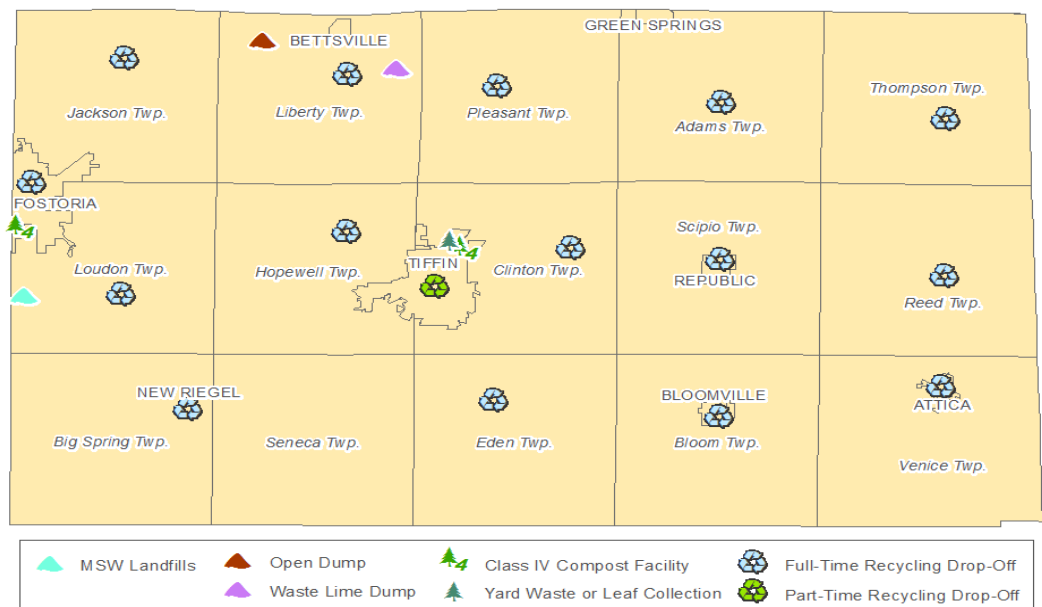
J. Map of Facilities and Activities

Maps presenting the facilities in each of the District's counties are included in Appendix E. The following figures are smaller versions which have been included for reference.

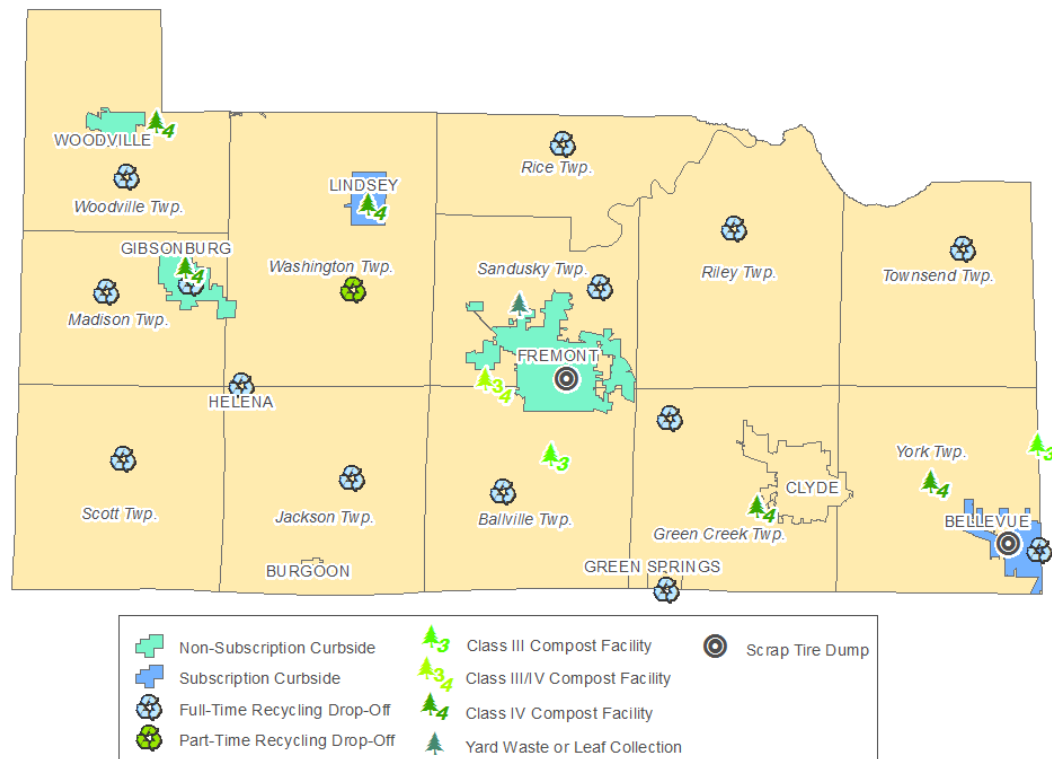
Ottawa County Facilities and Activities



Seneca County Facilities and Activities



Sandusky County Facilities and Activities



K. Existing Collection Systems – Haulers

Table III-10, “Solid Waste Haulers Operating in the District,” contains the waste haulers surveyed by the District.

All haulers identified during this inventory were found to use trucking/motor freight. No haulers were identified as using rail, river barge, or any other method of transport.

There are 11 private sector haulers and public sector haulers listed in Table III-10. Approximately 35,283 tons was reported by haulers.

**Table III-1
Landfills Used by the District**

Facility Name and Owner/Operator	Type	Location		Waste Received from the SWMD (TPY)			
		County	State	Residential/ Commercial	Industrial	Exempt	Total
In-District Landfills							
Port Clinton Landfill <i>Port Clinton Landfill, Inc.</i>	PO, PA	Ottawa	OH	53,691.5	14,031.3	7,244.3	74,967.1
Materion Brush Landfill <i>Materion Brush, Inc.</i>	PO, INCL, PUO	Ottawa	OH	-	6,532.0	-	6,532.0
Sunny Farms Landfill <i>Sunny Farms Landfill, Inc.</i>	PO, PA	Seneca	OH	25,982.5	8,130.9	20,763.4	54,876.9
Out-of-District Landfills							
Crawford County Sanitary Landfill <i>Crawford County Board of Commissioners</i>	GO, PA	Crawford	OH	21,500.1	391.3	468.6	22,360.0
Erie County Sanitary Landfill <i>Erie County Board of Commissioners</i>	GO, PA	Erie	OH	2,148.6	1,004.0	4,293.0	7,445.5
Hancock County Sanitary Landfill <i>Hancock County Board of Commissioners</i>	GO, PA	Hancock	OH	423.3	-	45.4	468.6
Noble Road Landfill <i>Rumpke</i>	PO, PA	Richland	OH	1.0	-	-	1.0
Wood County Landfill <i>Wood County Board of Commissioners</i>	GO, PA	Wood	OH	211.8	-	-	211.8
Evergreen Recycling & Disposal Facility <i>Evergreen Recycling & Disposal, Inc.</i>	PO, PA	Wood	OH	12,706.1	5,597.1	1,575.6	19,878.7
County Environmental Landfill of Wyandot <i>County Environmental Landfill of Wyandot</i>	PO, PA	Wyandot	OH	5,355.5	5,940.5	1,515.5	12,811.6
American Landfill <i>American Landfill, Inc.</i>	PO, PA	Stark	OH	-	9.8	-	9.8
Out-of-State Landfills							
National Serv-All Landfill <i>Republic Services of Indiana</i>	PO, PA	Allen	IN	17.9	13.2	-	31.1
Direct Haul to Landfill Total				122,038.2	41,650.1	35,905.8	199,594.1
Incinerator/Waste-to-Energy Facility Disposal Total (see Table III-2)				0.4	736.7	-	737.2
In-District Transfer Station Total (see Table III-3)				864.5	-	-	864.5
Out-of-District Transfer Station Total (see Table III-3)				285.7	-	0.3	286.1
Out-of-State Transfer Station Total (see Table III-3)				-	-	-	-
Disposal Total				123,188.9	42,386.8	35,906.1	201,481.8

PA = publicly available, PO = privately operated, GO = government operated, INCL = captive industrial landfill, N/A = not applicable

Note: Transfer Station Annual Operational Report Data is included in this table to demonstrate the total amount landfilled in 2013.

Source(s) of information: 2013 Annual Operational Reports for Landfills and Annual District Review Forms

**Table III-2
Solid Waste Incinerators and Waste-to-Energy Facilities Used by the District**

Facility Name and Owner/Operator	Type	Location		Waste Received from the SWMD (TPY)				Total Ash Disposed
		County	State	Residential/Commercial	Industrial	Exempt	Total	
In-District Facilities								
None	N/A	N/A	N/A	-	-	-	-	-
Out-of-District Facilities								
Stericycle Stericycle, Inc.	INCIN-MED	Geauga	OH	0.2	-	-	0.2	0.05
Out-of-State Facilities								
Indianapolis Resource Recovery Facility Covanta Indianapolis, Inc.	W2E	Marion	IN	-	731.7	-	731.7	219.5
Medassure of Indiana Treatment Facility Medassure of Indiana LLC	INCIN-MED	Marion	IN	0.3	-	-	0.3	0.1
Tradebe Treatment and Recycling Pollution Control Industries, Inc.	W2E	Lake	IN	-	5.0	-	5.0	1.5
Totals				0.4	736.7	-	737.2	221.1

INCIN-MED = medical waste incinerator, W2E = waste-to-energy, N/A = not applicable

**Table III-3
Solid Waste Transfer Facilities Used by the District**

Facility Name and Owner/Operator	Type	Location		Waste Received from the SWMD (TPY)			Total
		County	State	Residential/ Commercial	Industrial	Exempt	
In-District Facilities							
Put-in-Bay/South Bass Island Transfer & Compost Facility	GO, PA	Ottawa	OH	864.5	0.0	0.0	864.5
<i>Put-in-Bay Township</i>							
In-District Total				864.5	0.0	0.0	864.5
Out-of-District Facilities							
Delaware County Transfer Station <i>Delaware County Commissioners</i>	GO, PA	Delaware	OH	0.0	0.0	0.3	0.3
Huron County Transfer Station <i>Huron County Commissioners</i>	GO, PA	Huron	OH	283.4	0.0	0.0	283.4
Lawrence County Transfer & Recycling Station <i>Rumpke Waste</i>	PO, PA	Lawrence	OH	2.3	0.0	0.0	2.3
Out-of-District Total				285.7	0.0	0.3	286.1
Out-of-State Facilities							
None	N/A	N/A	N/A	0.0	0.0	0.0	0.0
Totals				1,150.2	-	0.3	1,150.6

PA = publicly available, PO = privately operated, GO = government operated

Source(s) of information: Ohio EPA Annual Operating Reports for 2013, Annual District Review Form for 2013

**Table III-4
Residential Curbside Recycling Activities Used by the District**

Community Name Service Provider	Type	Population Served	Collection Frequency	Average # of Households Participating	Service Area		Types of Materials Accepted										Recyclables Processed from SWMD (TPY)
					County	Community	AC	GL	PL	ONP	OCC	SC	Mag	MxP	Oth		
Non-Subscription Curbside Recycling																	
Village of Clay Center Buckeye Sanitation	NS	279	2X/Month 2nd and 4th Wednesday	N/A	Ottawa	Clay Center	X	X	X	X	X	X	X	X	X		10
Village of Elmore Buckeye Sanitation	NS	1,404	2X/Month 2nd and 4th Tuesday	N/A	Ottawa	Elmore	X	X	X	X	X	X	X	X	X		49
Village of Genoa Waste Management	NS	2,322	Weekly	N/A	Ottawa	Genoa	X	X	X	X	X	X	X	X	X		195
Village of Oak Harbor Republic Services	PAYT, NS	2,744	Bi-Weekly	N/A	Ottawa	Oak Harbor	X	X	X	X	X	X	X	X	X	X	163
City of Port Clinton Republic Services	PAYT, NS	6,033	Weekly	N/A	Ottawa	Port Clinton	X	X	X	X	X	X	X	X	X	X	359
City of Fremont FSI Disposal	PAYT, NS	16,446	Weekly	N/A	Sandusky	Fremont	X	X	X	X	X	X	X	X	X	X	392
Village of Woodville Buckeye Sanitation	NS	2,101	2X/Month 2nd and 4th Thursday	N/A	Sandusky	Woodville	X	X	X	X	X	X	X	X	X		74
Village of Gibsonburg Buckeye Sanitation	NS	2,587	2X/Month 1st and 3rd Tuesday	N/A	Sandusky	Gibsonburg	X	X	X	X	X	X	X	X	X		91
Non-Subscription Curbside Recycling Total															1,333		
Subscription Curbside Recycling																	
City of Bellevue Republic/FSI	S	DNR	Weekly	N/A	Sandusky	Bellevue	X	X	X	X	X	X	X	X	X		DNR
Catawba Island Township Various haulers	S	DNR	Varies	N/A	Ottawa	Catawba Island Twp.	X	X	X	X	X	X	X	X	X		DNR
Village of Lindsey Buckeye Sanitation	S	437	2X/Month 2nd and 4th Tuesday	N/A	Sandusky	Lindsey	X	X	X	X	X	X	X	X	X		8
Volume Based System - Total Recycled in 2013															8		
Curbside Recycling Total															1,341		

NS = non-subscription, S = subscription-based, PAYT = pay-as-you-throw/volume-based
 AC = aluminum containers, GL = glass containers, PL = plastic containers, ONP = newspaper, OCC = cardboard, SC = steel containers, MxP = mixed paper, Oth = other
Source(s) of information: 2013 Annual District Report Implementation Schedule, District records
 Note: Buckeye and Republic reported one residential number which was divided by the total people they service in III-4 then multiplied by the number of people in each municipality to get individual tommages

Table III-5
Drop-offs, Buy backs, Hauser Collection, Other Recycling Activities and Haul/Collection Used by the District

Facility Name, Address, Phone	Type of Facility or Activity	Type of Material Accepted												City/Township	Service Area		Population Served	Hours Available to Public	Recyclables Processed (Tons/yr)	Processing Capacity (Tons/yr)	
		AC	OL	HC	OWP	DISC	MC	LAB	SWG	ORR	WPE	AT	APP		DM	OTD				% of Material from Sector	Reg. Allowed (Tons/yr)
Allen Township DO	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Ottawa Township	164,743	Daylight hours, 7 days/week	91.0	100% R/C	N/A	
Bay Township DO	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Ottawa Bay Township	164,743	Daylight hours, 7 days/week	44.5	100% R/C	N/A	
Benton Township DO	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Ottawa Benton Township	164,743	Daylight hours, 7 days/week	76.2	100% R/C	N/A	
Carroll Township DO	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Ottawa Carroll Township	164,743	Daylight hours, 7 days/week	50.1	100% R/C	N/A	
Catawba Township DO	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Ottawa Catawba Township	164,743	Daylight hours, 7 days/week	32.9	100% R/C	N/A	
Clay Township DO	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Ottawa Clay Township	164,743	Daylight hours, 7 days/week	15.1	100% R/C	N/A	
City of Port Clinton DO	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Ottawa City of Port Clinton	164,743	Daylight hours, 7 days/week	155.8	100% R/C	N/A	
Canbury Township DO	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Ottawa Canbury Township	164,743	Daylight hours, 7 days/week	19.2	100% R/C	N/A	
Erie Township DO	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Ottawa Erie Township	164,743	Daylight hours, 7 days/week	32.6	100% R/C	N/A	
Harris Township DO	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Ottawa Harris Township	164,743	Daylight hours, 7 days/week	99.5	100% R/C	N/A	
Portage Township DO	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Ottawa Portage Township	164,743	Daylight hours, 7 days/week	65.4	100% R/C	N/A	
Salem Township DO	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Ottawa Salem Township	164,743	Daylight hours, 7 days/week	156.9	100% R/C	N/A	
Village of Gosport DO	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Sandusky City of Gosport	164,743	Daylight hours, 7 days/week	N/A	100% R/C	N/A	
Townsend Township DO	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Sandusky Townsend Township	164,743	Daylight hours, 7 days/week	N/A	100% R/C	N/A	
Adams Township	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Seneca Adams Township	164,743	Daylight hours, 7 days/week	19.7	100% R/C	N/A	
Village of Advance Twp	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Seneca Village of Advance	164,743	Daylight hours, 7 days/week	N/A	100% R/C	N/A	
Big Springs Township, New Regal	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Seneca Big Springs Township, New Regal	164,743	Daylight hours, 7 days/week	86.6	100% R/C	N/A	
Bloom Township	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Seneca Bloom Township	164,743	Daylight hours, 7 days/week	40.8	100% R/C	N/A	
Clinton Township	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Seneca Clinton Township	164,743	Daylight hours, 7 days/week	27.2	100% R/C	N/A	
Eden Township	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Seneca Eden Township	164,743	Daylight hours, 7 days/week	45.0	100% R/C	N/A	
City of Estonia Konart Recycling	PA, DO, BR	X	X	X	X	X	X	X	X	X	X	X	X	X	Seneca City of Estonia	164,743	8AM-4:30PM Mon-Sat	6,740.0	40% R, 20% C, 20% I	N/A	
Jackson Township	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Seneca Jackson Township	164,743	Daylight hours, 7 days/week	N/A	100% R/C	N/A	
Liberty Township	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Seneca Liberty Township	164,743	Daylight hours, 7 days/week	48.7	100% R/C	N/A	
Pleasant Township	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Seneca Pleasant Township	164,743	Daylight hours, 7 days/week	30.0	100% R/C	N/A	
Soope Township	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	Seneca Soope Township	164,743	Daylight hours, 7 days/week	23.1	100% R/C	N/A	

Table III-5 Drop-offs, Buy backs, Ha User Collection, Other Recycling Activities and HWY Collection Used by the District

Facility Name, Address, Phone	Type of Facility or Activity	AC	DL	PL	Other	PL	Other	PL	Other	Type of Material Accepted			SPWMS Area			Hours Available to Public	Recycling Program (L/Week)	Flammable Liquids (L/Week)	Flammable Solids (L/Week)	Flammable Gases (L/Week)		
										SC	DL	PL	Other	PL	Other						PL	Other
COMMERCIAL BOX STORES																						
Walmart	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	N/A	1947	100% C	N/A	N/A			
Dollar General	N/A	X	X	X	X	X	X	X	X	X	X	X	X	N/A	92.0	100% C	N/A	N/A				
Walmart	N/A	X	X	X	X	X	X	X	X	X	X	X	X	N/A	281.6	100% C	N/A	N/A				
Low's	N/A	X	X	X	X	X	X	X	X	X	X	X	X	N/A	50.7	100% C	N/A	N/A				
Dollar General	N/A	X	X	X	X	X	X	X	X	X	X	X	X	N/A	125.0	100% C	N/A	N/A				
Big Lots	N/A	X	X	X	X	X	X	X	X	X	X	X	X	N/A	32.2	100% C	N/A	N/A				
Jo-Ann Fabrics	N/A	X	X	X	X	X	X	X	X	X	X	X	X	N/A	15.6	100% C	N/A	N/A				
Aldi Inc. Hickory Division	N/A	X	X	X	X	X	X	X	X	X	X	X	X	N/A	89.2	100% C	N/A	N/A				
JC Penney	N/A	X	X	X	X	X	X	X	X	X	X	X	X	N/A	66.3	100% C	N/A	N/A				
Walmart	N/A	X	X	X	X	X	X	X	X	X	X	X	X	N/A	273.1	100% C	N/A	N/A				
Low's	N/A	X	X	X	X	X	X	X	X	X	X	X	X	N/A	13.3	100% C	N/A	N/A				
Dollar General	N/A	X	X	X	X	X	X	X	X	X	X	X	X	N/A	41.7	100% C	N/A	N/A				
Big Lots	N/A	X	X	X	X	X	X	X	X	X	X	X	X	N/A	34.0	100% C	N/A	N/A				
Aldi Inc. Hickory Division	N/A	X	X	X	X	X	X	X	X	X	X	X	X	N/A	89.2	100% C	N/A	N/A				
JC Penney	N/A	X	X	X	X	X	X	X	X	X	X	X	X	N/A	66.3	100% C	N/A	N/A				
Autozone	N/A													All	District-wide	164,743	Business hours	91.2	100% R	N/A	N/A	
NAPA Auto Parts	N/A													All	District-wide	164,743	Business hours	9.6	100% R	N/A	N/A	
Tire Recycling																						
Bob's Tire Services	T													Central Sandusky	All	164,743	N/A	15.4	DNR	N/A	N/A	
Enviro Tire Recycling 4715 Bald Rd Fostoria, OH 44830 419-438-2611	T													All	All	164,743	N/A	299.8	DNR	N/A	N/A	
Key-Tire Recycling Liberty Tire Service of Ohio Waste Management of Ohio 6525 Wain Rd Northwood, OH 43619 419-466-2640	T													All	All	164,743	N/A	555.4	DNR	N/A	N/A	
Ugmaster Tire Company R. Willing Tire Distributors Inc 763 R. The Dispatch Northwood, OH 43619	T													All	All	164,743	N/A	641.6	DNR	N/A	N/A	
Republic 4058 Tiffin St Sandusky, OH 44870 1-800-456-2454 Buckeye Sandusky 900 N. Main St. PO Box 72 Gillespie, OH 43031 Waste Management 6525 Wain Rd. Northwood, OH 43619 419-466-2640	H	X	X	X	X	X	X	X	X	X	X	X	X	Seneca	Tiffin	164,743	N/A	1,032.0	90% R/C, 10% I	N/A	N/A	N/A
														Central Sandusky	Various	164,743	N/A	232.2	100% R	N/A	N/A	N/A
	H, P, R	X	X	X	X	X	X	X	X	X	X	X	X	All	Multiple	164,743	N/A	1,113.9	10% C, 90% I	N/A	N/A	N/A

Table III-5
Drop-offs, Buy backs, Hauler Collection, Other Recycling Activities and HHW Collection Used by the District

Facility Name, Address, Phone	Type of Facility or Activity	Types of materials accepted														Series used			Hours Available to Public	Recycling Processed from the Facility (TPY)	Processing Capacity (tons)			
		AC	GL	PL	DRF	OCC	BC	LAB	REB	OMP	TR	APP	OT	OH	County	Top Level City	Population Served	% of Materials from Sector			Daily (TPD)	Annual (TPY)		
		X	X	X	X	X	X	X	X	X	X	X	X	X										
H&O Hauling 1850 Industrial Dr P.O. Box 903 FINDLAY, OH 43840 419-422-5655	H									X							All	All	164,743	N/A	21.0	DNR	N/A	N/A
Kay's Hauling 1690 S. State Route 53 Troy, OH 44883 419-447-8227	H	X	X	X	X	X	X	X	X						X		All	All	164,743	N/A	417.5	30% R/C, 70% I	N/A	N/A
Rumore 2175 80thing Rd Mansfield, OH 44803 419-595-2841	H	X	X	X	X	X	X	X	X	X	X	X	X	X	X		All	All	164,743	N/A	2,130.0	100% R/C	N/A	N/A
Other Collection/Industrial Recycling																								
District Tire Collection	N/A														X		All	District-wide	164,743	N/A	82.5	100% R/C	N/A	N/A
Waste Oil and Oil Collection Events																								
District Tire Collection	PA, DO														X		All	District-wide	164,743	N/A	52.5	100% R/C	N/A	N/A
District Refrigerator Collection	PA, DO														X		All	District-wide	164,743	N/A	82.0	100% R	N/A	N/A
District HHW Collection	PA, DO														X		All	District-wide	164,743	N/A	125.3	100% R	N/A	N/A
District Appliance Collection	PA, DO														X		All	District-wide	164,743	N/A	23.2	100% R	N/A	N/A
TOTAL																								
111,273																								

Re-Use/Recycle: C=Commercial, I=Industrial, PA=Public, Available; DO=Drop off; B=Broker; BB=Buy-Back; MRF=Material Recovery Facility; PR=Processor; T=Tire Recycler; H=Hauler; BUO=Private Use Only
AC=Aluminum Containers/Non-Ferrous; GL=Glass Containers; PL=Plastic Containers/Ferrous; OMP=Old Newspaper; OCC=Corrugated Cardboard; SC=Steel Containers; LAB=Lead Acid Battery; MAG=Magazines; OFF=Office Paper;
MPP=Mixed Paper; ST=Scrap Tires; APP=Appliances; OV=Other Metals; OT=Other (Lead Batteries, Used Oil, Household Batteries, Wood)
DNR=Do Not Report

Source(s) of information: 2014 Annual District Report, District Recycling Facility Data

**Table III-6
Composting/Yard Waste Management Activities Used by the District**

Facility Name or Activity	Class	County	Facility Address	Waste Received from the SWMD		
				Yard Waste	Food Waste	Total Organics
<i>In-District Registered Compost Facilities</i>						
Bio-Fill	III	Ottawa	8530 East Harbor Rd. Marblehead, OH	192.8	0.0	192.8
Catawba Island Twp.	IV	Ottawa	5035 E. Cemetary Rd. Port Clinton, OH	4,400.0	0.0	4,400.0
City of Fostoria Compost	IV	Seneca	1240 S. Union St. Fostoria, OH	2,414.5	0.0	2,414.5
Clyde Compost Facility	IV	Sandusky	Limerick Rd. Clyde, OH	1,719.7	0.0	1,719.7
Gibsonburg Compost Facility	IV	Sandusky	Cedar St. Gibsonburg, OH	665.0	0.0	665.0
Lakeside Association	IV	Ottawa	Hartshom Rd. Lakeside, OH	611.3	0.0	611.3
Perry's Plantation	IV	Sandusky	1479 CR 288 Bellevue, OH	45.0	0.0	45.0
Pump Landscaping & Garden Center	III/IV	Sandusky	2601 Hayes Ave. Fremont, OH	584.0	0.0	584.0
Put-In-Bay, South Bass Island Facility	II	Ottawa	624 Trenton Ave. Put-In-Bay, OH	0.0	0.0	0.0
Sberna Stables & Farms	III	Sandusky	902 Co. Rd. 312 Bellevue, OH	0.0	0.0	0.0
Tiffin WWTP	IV	Seneca	961 N. Water St. Tiffin, OH	182.0	0.0	182.0
Universal Landscaping	III	Sandusky	219 East Stahl Rd. Fremont, OH	835.8	0.0	835.8
Village of Lindsey Compost Area	IV	Sandusky	240 S. Main St. Lindsey, OH	136.7	0.0	136.7
Village of Woodville	IV	Sandusky	Port Clinton Rd. Woodville, OH	566.0	0.0	566.0
Subtotal				12,352.8	0.0	12,352.8
<i>Out-of-District Registered Compost Facilities</i>						
Yard Waste Recovery - Barnes Nursery	II	Erie	1630 Camp Rd. Huron Twp, OH	2,741.2	Included in Food Waste Hauler Data	2,741.2
Sand Road Ent. Inc.	IV	Huron	4352 Sand Rd. Norwalk, OH	9.7	0.0	9.7
Hirzel Farms Organic Composting Operation (reported by NAT Transportation)	II	Wood	2422 SR 105 Pemberville, OH	0.0	964.5	964.5
City of Bellvue WWTP	IV	Erie	500 Great Lakes Pkwy. Bellevue, OH	98.7	0.0	98.7
Subtotal				2,849.6	964.5	3,814.0

Table III-6 (cont'd)
Composting/Yard Waste Management Activities Used by the District

Facility Name or Activity	Class	County	Facility Address	Waste Received from the SWMD		
				Yard Waste	Food Waste	Total Organics
<i>Other Activities</i>						
Village of Oak Harbor Leaf Collection Finished Compost Used by Twp.	N/A	Ottawa	146 Church St. Oak Harbor, OH	49.2	0.0	49.2
Danbury Township Leaf Collection/Brush Drop-Off Finished Compost Used by Twp.	N/A	Ottawa	310 S. Bridge Rd. Marblehead, OH	1,168.0	0.0	1,168.0
Village of Marblehead Leaf Collection/Brush Drop-Off Used by Private Business	N/A	Ottawa	513 W. Main St. Marblehead, OH	61.5	0.0	61.5
Sandusky Township Leaf Collection Residents Use Material for Home Composting	N/A	Sandusky	2207 Oak Harbor Rd. Fremont, OH	1,591.0	0.0	1,591.0
City of Tiffin Yard Waste/Leaf Collection	N/A	Seneca	961 N. Water St. Tiffin, OH	3,648.7	0.0	3,648.7
Village of Put-In-Bay Yard Waste Land Application	N/A	Ottawa	624 Trenton Ave. Put-In-Bay, OH	27.7	0.0	27.7
Village of Clay Center Leaf Collection Residents Use Material for Home Composting	N/A	Ottawa	420 Main St. Clay Center, OH	9.1	0.0	9.1
Wal-Mart	N/A	District-wide	N/A	0.0	91.5	91.5
Food Waste Hauler Data	N/A	District-wide	N/A	0.0	760.6	760.6
Subtotal				6,555.2	852.1	7,407.3
Grand Total				21,757.6	1,816.6	23,574.1

DNR = did not report, NA = not applicable, YW = yard waste, FW = food waste

Source(s) of information: 2013 Draft Compost Facility Planning Report

**Table III-7
Facilities Used by the District Which are Located Outside Ohio: Additional Data**

Facility Name	Facility Address	Facility Owner Contact Information	Facility Operator Contact Information	Daily Waste Receipt Limit, (TPD)	Number of Days Facility Open/Year
National Serv-All Landfill	6231 Macbeth Rd. Fort Wayne, IN 46809	Republic Services of Indiana Bob Walls 260-747-4117	Kevin Walbridge 832 Langsdale Ave. Indianapolis, IN 46202	< 3,000	309
Indianapolis Resource Recovery Facility	2320 S. Harding St. Indianapolis, IN 46221	Covanta Indianapolis, Inc. Tom Wehrenberg 317-634-7367	Joe Miller 2320 S. Harding St. Indianapolis, IN 46221 317-921-1667	2,175	363
Medassure of Indiana Treatment Facility	1013 South Girls School Rd. Indianapolis, IN 46231	Medassure of Indiana LLC Joseph Delloiacovo 732-363-7444	Izekiel Mendlowitz 1013 South Girls School Rd. Indianapolis, IN 46231	N/A	312
Tradebe Treatment and Recycling	4343 Kennedy Ave. East Chicago, IN 46312	Pollution Control Industries, Inc.	N/A	N/A	365

Source(s) of information: Indiana Department of Environmental Management (IDEM) Permitted Solid Waste Facilities List, February 2, 2015

**Table III-8
Open Dumps and Waste Tire Dumps Located in the District**

Site Location (description)	Land Owner Contact Information	Description of Materials Dumped	Approximate Size of Site	Time Period Site has Existed	2013 Update
Open Dump Sites					
5287 West Twp Rd 36 Kansas, OH 44841 (Seneca County)	Paul E. Miller	Mixed Solid Waste, Car Parts, Junk Automobiles, Scrap Tires	1.5 Acres	Reported 6/25/08	Consent order with Seneca County Court of common Pleas to clean up the property by 10/1/15
Waste Tire Dump Sites					
Nu-Tire & Retread Center 323 E. State St. Fremont, OH 43420 (Sandusky County)	Randall Scott McGrady (419) 334-2619	Scrap Tires	2/10 Acre	March 2012	Ohio EPA litigation
2361 County Road 308 Bellevue, OH 44811 (Sandusky County)	Michael H. Rowlett 7849 County Road 29 Bellevue, OH 44811	Scrap Tires	100 Tires	December 2012	Property abandoned

Source(s) of information: Records from Seneca County Health District and Sandusky County Health Department

**Table III-9
Ash, Foundry Sand, and Slag Disposal Sites Used by the District**

Site Location (describe briefly)	Land Owner Mailing Address/Phone	Description of Materials Dumped	Approximate Size of Site (in Acres)	Time Period Site has Existed
1967 W County Road 42 Bettsville, OH 44815 (Seneca County)	Michael Klenda Carmeuse Lime, Inc. Maple Grove Operations 1967 W County Road 42 P.O. Box 708 Bettsville, OH 44815	Waste lime	N/A	N/A

Source(s) of information: Ohio EPA Final Air Pollution Permit-to-Install, 7/22/2013

**Table III-10
Solid Waste Haulers Operating in the District**

Hauler	Mailing Address	Service Area	Materials Collected	Tons Collected from District	Name of Facility Used by Hauler
<i>Private Sector Haulers</i>					
Buckeye Sanitation	PO Box 72 Gibsonburg, OH 43431	Ottawa and Sandusky County	Solid waste and residential recycling	232 tons recycling	DNR
Curt's Hauling	P.O. Box 1714 Findlay, OH 45839	Seneca County	Residential trash	DNR	DNR
Cyclone Services	3063 C.R. 290 Vickery, OH 43464	Sandusky County	Residential trash	DNR	DNR
D&D Hauling, LLC	7763 Twp Road 103 Kansas, OH 44841	Sandusky and Seneca County	Residential trash	DNR	DNR
Elliott Scrapping, LLC	7090 C.R. 11 Risingsub, OH 43457	Sandusky County	Residential trash and scrap recycling	DNR	DNR
FSI Disposal	330 Elm St. Clyde, OH 43410	District-wide	Residential/commercial solid waste and recycling	2,702 tons recycling 18,550 tons waste	FSI MRF, FSI Transfer Station
G.I.B.S. - lic - Santiation Services	546 W 4th Street Fostoria, OH 44830	Seneca County	Residential Trash	DNR	DNR
Hey That's My Trash Inc.	70 S Washington Street Tiffin, OH 44883	Seneca County	Residential Trash	DNR	DNR
H&O Hauling	1850 Industrial Dr. Findlay, OH 45839	District-wide	Fiber, metal, plastic	101 tons recycling	H&O Services MRF (Hancock County)
Joe's Hauling	6145 Herst Road Toledo, OH 43613	City of Tiffin	Commercial solid waste	DNR	Sunny Farms Landfill
Karl's Hauling	1590 Ohio 53 Tiffin, OH 44883	Seneca County	Residential, commercial, and industrial solid waste and recycling	477.5 tons recycling	Gateway Recycling
Kohart Recycling of Fostoria	634 Spruce St. Fostoria, OH 44830	District-wide	Residential recycling	4,622 tons recycling	N/A (Self-markets materials)
Lake Disposal, Inc.	P.O. Box 57 Marblehead, OH 43440	Ottawa County	Residential Trash	DNR	DNR
NAT Transportation	11101 Pemberville Rd. Bradner, OH 43406	Seneca County	Industrial sector organics	964	Hirzel Farms Organic Composting Operation
Northern Ohio Waste & Recycling	11426 W Twp Rd 33 Fostoria, OH 44830	Seneca County	Residential solid waste	DNR	DNR

**Table III-10 (continued)
Solid Waste Haulers Operating in the District**

Hauler	Mailing Address	Service Area	Materials Collected	Tons Collected from District	Name of Facility Used by Hauler
<i>Private Sector Haulers</i>					
Olmsted Hauling	590 Maple Street Fostoria, OH 44830	Seneca County	Residential solid waste	DNR	DNR
Patterson Sanitation Systems	P.O. Box 185 North Baltimore, OH 45872	Seneca County	Residential solid waste	DNR	DNR
R&B Hauling	12150 W Twp Rd 56 Alvada, OH 44802	Seneca County	Residential solid waste	DNR	DNR
Republic Services	4005 Tiffin Ave. Sandusky, OH 44870	Ottawa and Sandusky County	Residential solid waste and commercial recycling	132 tons recycling 1,845 tons waste	Ottawa County Landfill, Port Clinton Landfill, County Environmental Landfill of Wyandot, Rumpke Dayton MRF
		Oak Harbor, Port Clinton, Catawba Island, Belleue, Put-In-Bay/Middle Bass Island	Recycling (all sectors)	900.32 tons recycling	
Rumpke	N/A	District-wide	Residential/commercial solid waste and recycling	2,717 tons recycling	Rumpke Dayton MRF
S&R Refuse	3823 Bethel Rd. Bucyrus, OH 44820	Seneca County	Residential solid waste	558.55 tons waste	County Environmental Landfill of Wyandot
Sonic Hauling, LTD	411 S Madison Street Republic, OH 44867	Seneca County	Residential solid waste	DNR	DNR
Tim's Debris Hauling	4919 W US 224 Tiffin, OH 44830	Seneca County	Residential solid waste	DNR	DNR
Waste Management of Toledo Hauling	N/A	District-wide	Residential/commercial solid waste and recycling	195 tons recycling 1,287 tons waste	Evergreen R&D Facility, Re-Community, Gateway Recycling, Crawford County Landfill, and County Environmental Landfill of Wyandot
Total				35,283	

Source(s) of information: 2013 District Survey and Phone Survey

IV. Reference Year Population, Waste Generation and Waste Reduction

[ORC Section 3734.53(A)(5)-(6)]

This section of the *Plan Update* presents information regarding the District's population, waste generation, and waste reduction estimates for the reference year.

A. Reference Year Population and Residential/Commercial Waste Generation

Table IV-1, "Reference Year Population and Residential/Commercial Generation," includes a 2013 population for the District. The population of 157,165 residents in Ottawa, Sandusky, and Seneca Counties is based on figures in the Ohio Development Services Agency (ODSA) document *2013 Population Estimates by County, City, Village & Township*, May 2014. This population estimate does not include adjustments for political subdivisions located in more than one solid waste district.

Population Adjustments

The following adjustments were made for political subdivisions located partially within the District and partially within surrounding solid waste districts. In accordance with Ohio law, the entire population of political subdivisions located in more than one solid waste district was credited to the district containing the largest portion of the jurisdiction's population.

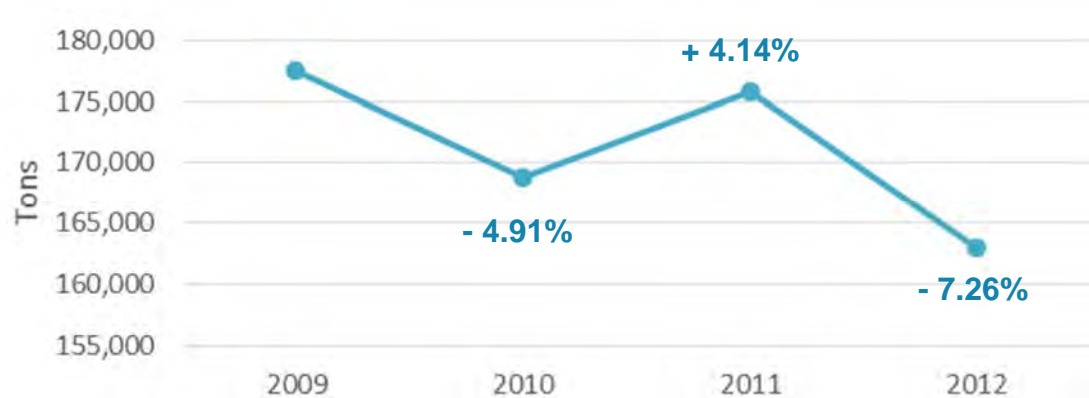
- More than 50% of the population of the City of Bellevue was living inside Sandusky County and less than 50% of the population was living inside Erie and Huron Counties. The population of the City of Bellevue in Erie County (2) and Huron County (3,617) was added to the District's population total.
- More than 50% of the population of the City of Fostoria was living inside Seneca County and less than 50% of the population was living inside Wood and Hancock Counties. The population of the City of Fostoria in Wood County (1,034) and Hancock County (2,925) was added to the District's population total.

The total adjusted population for the District in 2013 was 164,743 residents.

B. Residential/Commercial Waste Generation

The District reviewed historical data trends to project the 2013 residential/commercial waste generation. The following figure presents the District's residential/commercial sector total generation from 2009 to 2013:

2009 – 2013 Residential/Commercial Sector Total Generation



An alternating pattern of increasing and decreasing total generation was identified for the residential/commercial sector. The District projected that tonnage would increase an average of 5.44% from 2012 to 2013 by averaging the average absolute percent change from 2009 to 2012. The following equation shows the calculation used to obtain the projected percentage increase:

$$(|4.91\%| + |4.14\%| + |7.26\%|) \div 3 = |5.44\%|$$

The reference year residential/commercial waste generation was calculated by increasing the total generation reported in 2012 (163,040 tons) by the average absolute percent change from 2009 to 2012 (5.44%).

The 2013 per capita residential/commercial waste generation projection was 5.72 pounds per person per day (PPD), which equates to 171,904 tons. This estimate is approximately 6,572 tons more than the 165,332 tons of residential/commercial waste generated that was recorded by landfills and transfer stations for 2013 (123,189 tons) plus reported recycling and source reduction activities for 2013 (42,143 tons). For further discussion on reconciling the waste generation values, see Section IV.H of this *Plan Update*.

C. Industrial Waste Generation

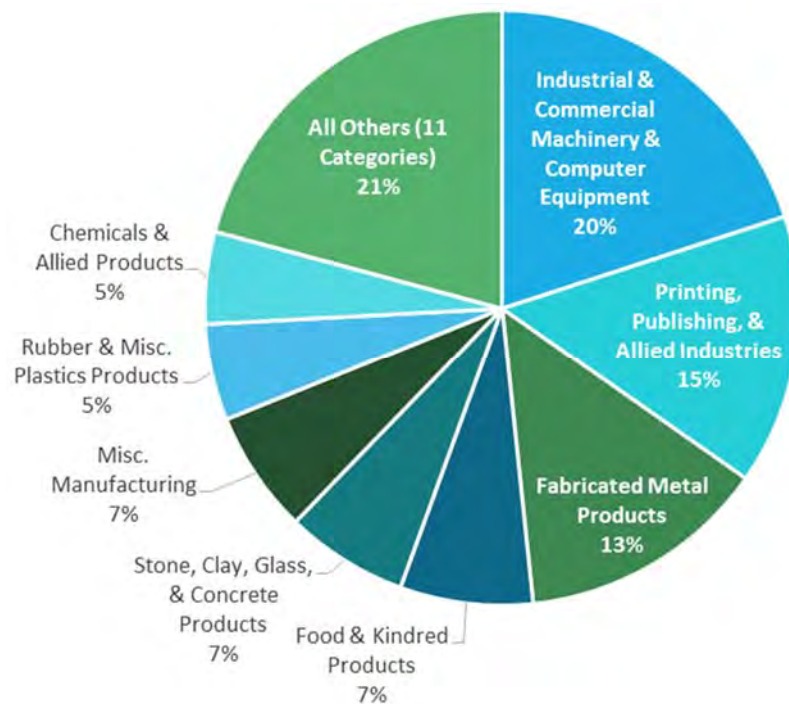
The District conducted an Industrial Survey in 2013 to support this *Plan Update*. Copies of the commercial and industrial survey forms and a summary of industrial survey results are included in Appendix F. Table IV-2 presents the results of the District's 2013 Industrial Survey. The District used information from industries responding to the survey as well as Appendix JJ of the Ohio EPA Plan format to estimate the total waste generated by the industrial sector in the District during 2013.

The District identified a total of 360 industries in Standard Industrial Classification (SIC) codes 20 and 22-39. Approximately 13% of the industries (47) responded to the survey. Approximately 7,941 (or 50%) of the total number of employees were represented by the survey results. Approximately 96,778 tons of waste generation were reported in the surveys.

Approximately 20% of the individual industries located in the District manufactured industrial and commercial machinery and computer equipment. Printing and publishing industries represented 15% of the industries located within the District, and industries manufacturing fabricated metal products represented 13%. Together, these three manufacturing subsectors make up nearly half of the District’s industries.

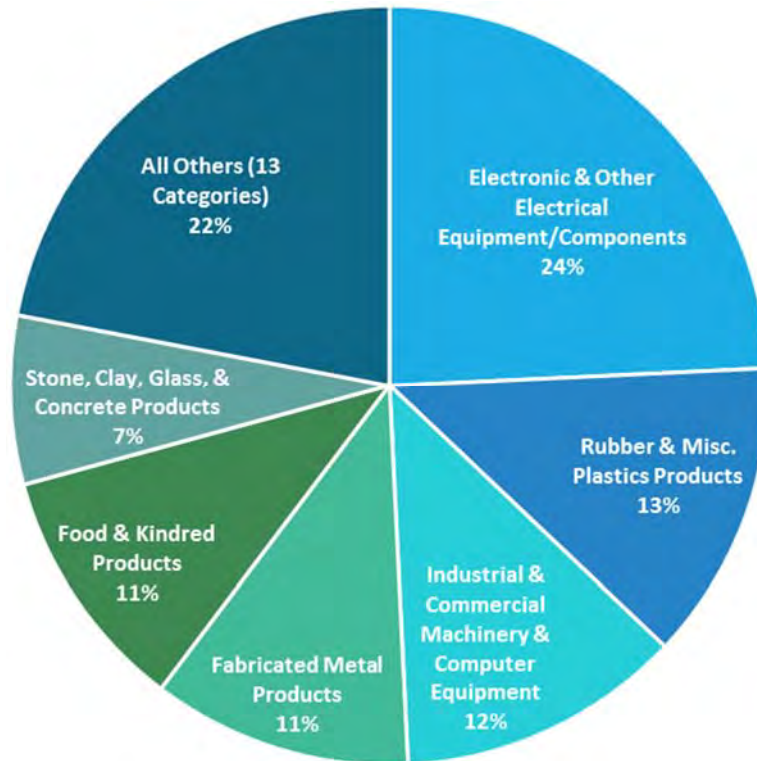
The following figure presents the percentage of District industries by SIC category:

Percentage of District Industries by SIC Category



Nearly one quarter of the District’s industrial sector employment worked in manufacturing electronic and electrical equipment/components. Other large subsectors in manufacturing based on employment per SIC code included rubber and miscellaneous plastics products (13%), industrial and commercial machinery and computer equipment (12%), fabricated metal products (11%), and food and kindred products (11%). The following figure presents the percentage industrial sector employment by SIC category:

Percentage of Industrial Sector Employment by SIC Category



The following table presents the types of industries that reported the largest per capita solid waste generation rates:

SIC Code	Description	Solid Waste Generation Rate (Tons/Employee)	Total Tons Reported on Survey
26	Paper and Allied Products	34.15	2,425
25	Furniture and Fixtures	25.27	6,822
32	Stone, Clay, Glass, and Concrete Products	21.67	17,165
36	Electronic and other Electrical Equipment and Components	14.25	52,755

Three of the four types of industries (SIC codes 25, 32, and 36) that reported the highest per capita solid waste generation rates also had the highest overall tons reported. Industries with a SIC code of 30 (Rubber and Miscellaneous Plastics Products) had a moderately high per capita solid waste generation rate (10.05 tons per employee annually) in addition to being among the top four types of industries in terms of total tons reported (5,298 tons).

The District calculated the generation rate and tons of waste generated per employee for each SIC code from the survey respondents. Then the District calculated the amount of industrial waste generated for survey non-respondents. For those industries that did not respond, the District used average generation rates from Appendix JJ of the Ohio EPA Plan Format to estimate total waste generated. Using this projection methodology, a total of 77,829 tons of industrial waste was generated in the District from non-responding industries. The resulting total is 174,607 tons generated by both responding and non-responding industries.

D. Exempt Waste

Exempt waste is material that is not defined as solid waste, such as construction and demolition debris. Exempt wastes can be managed in landfills that have different and often less stringent environmental control requirements. Table IV-3 shows that the total exempt waste generated by the District was 35,906 tons. This includes the exempt waste reported by the landfills and transfer stations receiving the District's waste in Table III-1. The generation rate was 1.19 pounds per person per day.

Exempt waste decreased from 43,140 tons in 2009 to a 5-year period low of 35,906 tons in 2013. This is a 20% decrease in exempt sector waste. Exempt waste generation typically correlates to the level of activity from construction, demolition, mining, and coal-burning operations.

E. Total Waste Generation

Table IV-4, "Reference Year Total Waste Generation for the District," presents the total waste generated using District data and statewide projections. Using these sources of information, the District estimated that approximately 382,417 tons of waste was generated in 2013, which is equal to a generation rate of 12.72 pounds per person per day. This included 171,904 tons (Table IV-1) of residential/commercial waste, 174,607 tons (Table IV-2) of industrial waste, and 35,906 tons (Table IV-3) of exempt waste. The total waste generation listed in Table IV-4 is approximately 44,263 tons more than the total in Table IV-8 (338,155 tons) which was calculated using landfill/transfer facility data and reported recycling and waste reduction, including exempt waste. For further discussion on reconciling the waste generation values, see Section IV.H.

F. Reference Year Waste Reduction

In 2014, the District surveyed communities, businesses, industries, recycling facilities, haulers and brokers to obtain 2013 residential, commercial/institutional and industrial recycling data. The residential and commercial sector waste reduction reported in Table IV-5 and industrial

sector waste reduction reported on Table IV-6 was obtained from these surveys and reported in the District's Annual District Report (ADR). The District was careful to eliminate double counting as described in the sections below.

Residential Data

The District requests data from cities and villages biannually. In 2014, the District surveyed communities about their yard waste collection activities and/or sites. The District works with communities to confirm how materials are collected and managed to ensure data is not double counted.

Recycling data for the residential sector is collected by material recovery facilities that process materials from residential programs like drop-off and curbside recycling. The District also keeps data on special collections, such as HHW collections and electronic collections.

Other entities such as haulers are surveyed, but the data collected is used primarily to identify service areas. Tonnage reported from multiple types of entities (i.e., brokers, haulers, MRFs) is typically not blended to avoid double counting.

Commercial, Institutional, and Industrial Data

A survey of businesses and industries was completed by the District in the spring of 2014 to gather 2013 recycling and disposal data. The District used a mail house to send surveys to 723 commercial/institutional enterprises, 331 industries, 26 haulers, 25 brokers, and 25 compost facilities. Commercial businesses and institutions in SIC codes 42-45, 47-65, 67, 70, 73, 78-84, 86, 87, and 91-95 and industries in SIC codes 20 and 22-39 received a survey request. Follow up phone calls were made to entities that previously reported tonnage on a District survey that did not respond by the original deadline. The results of these individual surveys were used to compile recycling by commercial, institutional and industrial facilities. Recycling tonnage from processors, brokers or haulers was not blended with generator data to calculate the 2013 recycling tonnage. As an additional step in assuring quality data, the destination of recycled materials reported on surveys was reviewed to ensure that tonnage was not double-counted.

Residential/Commercial Waste Reduction

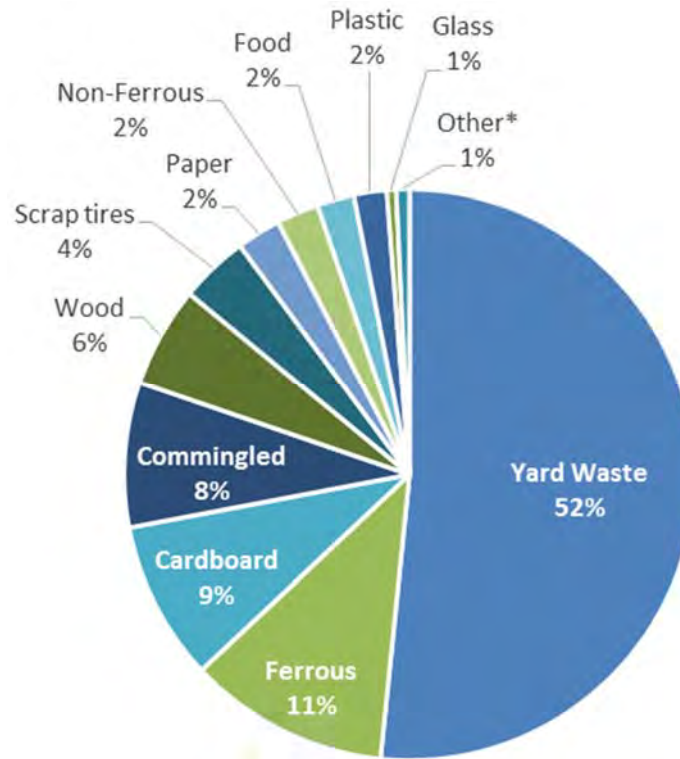
Table IV-5, "Reference Year Residential/Commercial Waste Reduction in the District," shows that the District reduced/recycled 42,143 tons of residential/commercial waste in 2013. The material recycled in the greatest amount during 2013 was composted yard waste (21,758 tons). The

yard waste accounted for approximately 52% of the District's residential/commercial recycled material in 2013. Other large components of residential/commercial recycling included ferrous metals (4,796 tons), cardboard (3,795 tons), and commingled recycling (3,472 tons). The following table summarizes the residential and commercial recycling totals by commodity:

Commodity	2013 Tons
Yard Waste	21,758
Ferrous	4,796
Cardboard	3,795
Commingled	3,472
Wood	2,417
Scrap tires	1,637
Paper	1,055
Non-Ferrous	1,008
Food	885
Plastic	784
Glass	224
HHW	125
Electronics	82
Batteries	78
Appliances	23
Used Oil	2
Cloth & Fabrics	1
Waste Reduction via Incineration	0.29
Total	42,143

The following figure depicts the waste reduction percentages for the residential/commercial sector.

Residential/Commercial Waste Reduction: 2013



**Other recycling comprised of HHW, electronics, batteries, appliances, used oil, textiles, and waste reduction via incineration.*

Industrial Waste Reduction

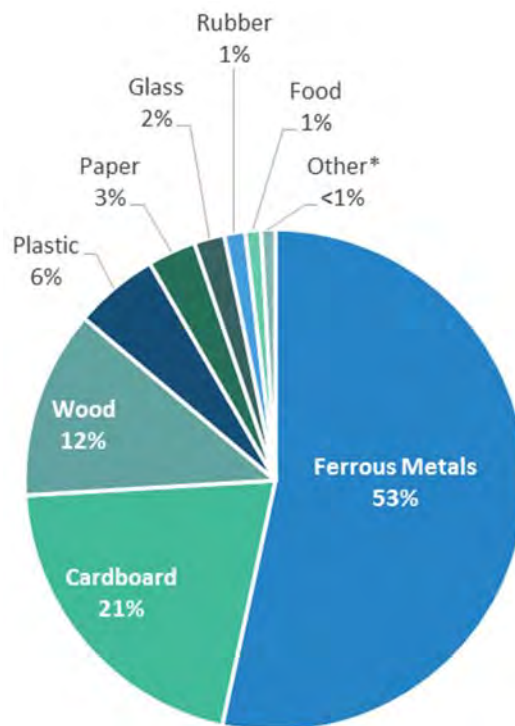
Table IV-6, “Reference Year Industrial Waste Reduction in the District” shows that the District reduced/recycled 95,045 tons of industrial waste in 2013. Ferrous metals (50,775 tons) accounted for 53% of the industrial sector recycling. Other materials that represented a significant portion of the industrial sector’s recycling included cardboard (19,612 tons) and wood (11,528 tons).

The following table summarizes the industrial recycling totals by commodity:

Commodity	2013 Tons
Ferrous	50,775
Cardboard	19,612
Wood	11,528
Plastic	5,186
Paper	2,962
Glass	1,865
Rubber	1,285
Food	964
Waste Reduced via Incineration	516
Non-Ferrous	178
Non-Exempt Foundry Sand	168
Appliances	3
Misc.	3
Tires	1
Total	95,045

The following figure presents the commodities recycled by the industrial sector in 2013.

Industrial Waste Reduction in the District: 2013



**Other includes non-ferrous metals, non-exempt foundry sand, appliances, waste reduction via incineration, miscellaneous materials, and tires.*

G. Existing Waste Reduction/Recycling Activities for the Residential, Commercial and Industrial Sectors

RESIDENTIAL/COMMERCIAL RECYCLING PROGRAMS

1. Curbside Recycling Program

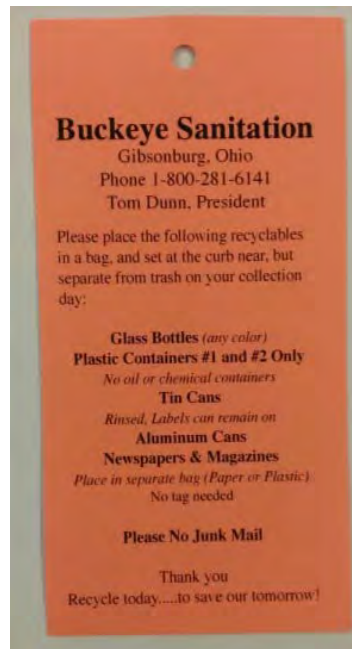
In 2013, there were eleven communities that operated curbside recycling programs. Eight of the programs were non-subscription and three were subscription. In 2013, there were no public sector-operated curbside programs. Curbside programs were operated by Buckeye Sanitation, Republic Services, FSI Disposal, or Waste Management. Each curbside recycling program collected, at a minimum, aluminum and steel cans, glass, newspaper and plastic.

All curbside recycling programs operated by Buckeye Sanitation accepted the following materials:

- #1 and #2 Plastics
- Flattened corrugated cardboard
- Tin cans
- Aluminum cans
- Glass food and beverage jars (any color)
- Newspaper
- Magazines

Buckeye Sanitation's website includes a page listing details about which materials are accepted and instructions for participating in the curbside program. Most materials can be bagged, boxed, or bundled together. Newspapers and magazines should be placed in a separate bag.

In addition to the recycling page, Buckeye Sanitation also hosts individual pages on its website for each municipality that uses Buckeye Sanitation for curbside recycling. The municipal pages contain community-specific information, such as trash pick-up day, waste disposal limits, items accepted for bulk pick-up, fees for the collection special materials such as mattresses, and the curbside recycling schedule. Tags with essential information about the curbside recycling program are also provided to residents. The following figure is an example of the informational tags:



Buckeye Sanitation's operation is housed in one building and the curbside recycling is generally separated by hand on sorting tables. The District has made Buckeye Sanitation aware of Market Development Grant opportunities. At this time, the owner will continue to operate with the present system. Automated collection routes would be a tremendous expense for a small private hauler. The District has worked with Buckeye Sanitation on education efforts by assisting communities with recycling education materials in their service area.

All curbside recycling programs operated by Republic Services accepted the following materials:

- Aluminum cans
- Corrugated cardboard and paperboard
- Glass bottles/jars (clear only)
- Plastic (plastic bags, #1-#2 bottles, #3-#7 containers)
- Mixed paper (Magazines, office paper, bulk (junk) mail, newspaper)
- Books (hardcover and paperback)
- Steel cans and metal kitchen cookware

All curbside recycling programs operated by FSI Disposal accepted the following materials:

- Aluminum, copper, and brass
- Steel food and aerosol cans

- Glass jars and bottles (clear, green, and brown)
- Flattened cardboard
- Paper (office paper, magazines, newspaper, bulk mail)

Table III-4, “Residential Curbside Recycling Activities Used by the District” presents information each curbside recycling program that operated during 2013.

The following section summarizes all curbside programs for each county in the District.

Ottawa County

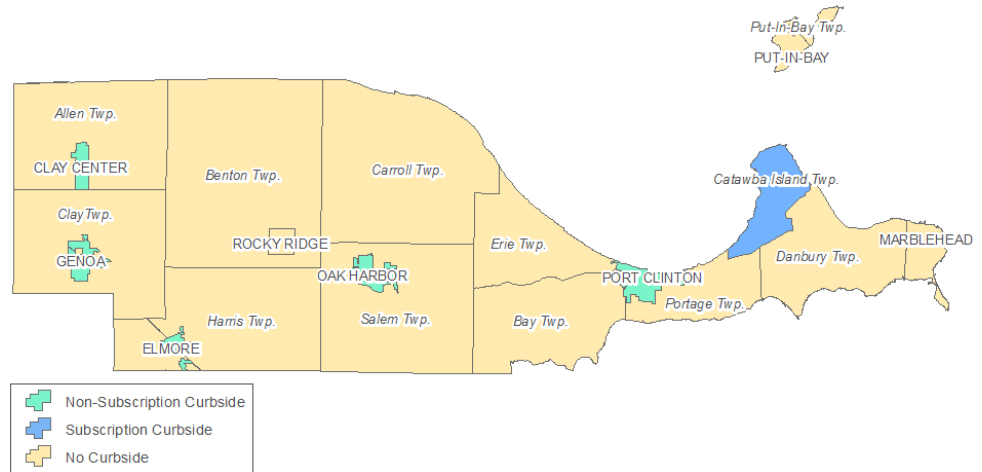
The following six communities had curbside recycling programs in 2013:

- Catawba Island Township (subscription)
- Clay Center Village (non-subscription)
- Elmore Village (non-subscription)
- Oak Harbor Village (non-subscription/PAYT)
- Port Clinton City (non-subscription/PAYT)
- Village of Genoa (non-subscription)

The Village of Genoa contracts with Waste Management for their curbside program. The City of Port Clinton and the Village of Oak Harbor contract with Republic Services to operate their curbside recycling program in conjunction with a Pay-As-You-Throw disposal system. The Villages of Clay Center and Elmore contract with Buckeye Sanitation to operate non-subscription curbside recycling programs. Catawba Island Township does not have a contract for residential recycling collection, but there are multiple haulers that offer subscription curbside recycling to residents in the township.

The following figure presents the locations where curbside recycling programs were available in Ottawa County:

Ottawa County Curbside Recycling Programs



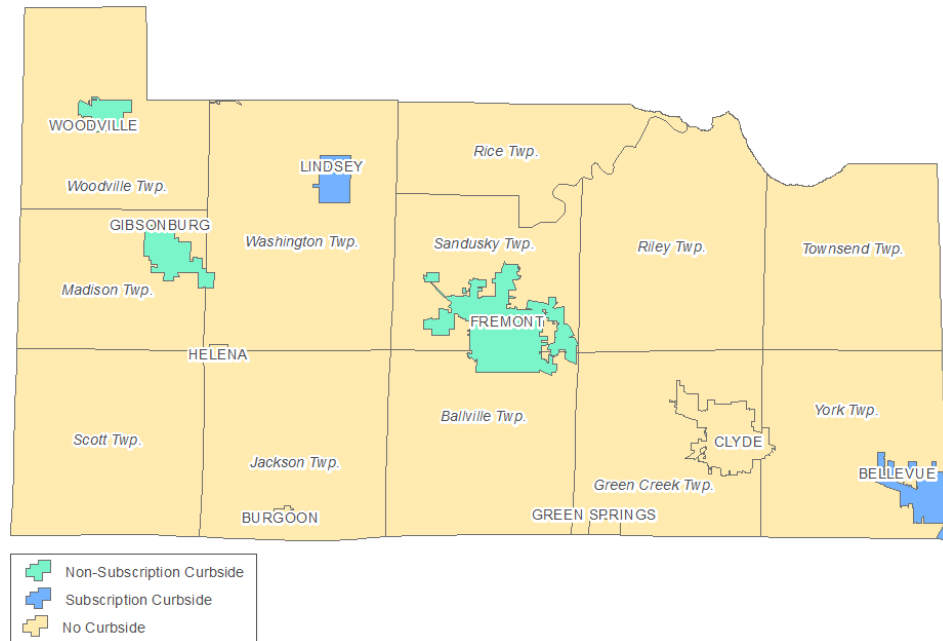
Sandusky County

The following five communities had curbside recycling programs in 2013:

- City of Bellevue (subscription)
- City of Fremont (non-subscription/PAYT)
- Village of Woodville (non-subscription)
- Village of Gibsonburg (non-subscription)
- Village of Lindsey (subscription)

The following figure presents the locations where curbside recycling programs were available in Sandusky County:

Sandusky County Curbside Recycling Programs



The City of Fremont contracted with FSI Disposal to operate the curbside recycling program in conjunction with a Pay-As-You-Throw disposal system. Monthly per-household pricing for different service levels is as follows:

<p>High-Volume Toter Refuse Collection Program</p> <ul style="list-style-type: none"> •\$13.49 •Hauler provides 90-gallon toter plus two recycling containers
<p>High-Volume Regular Refuse Collection Program</p> <ul style="list-style-type: none"> •\$12.49 •Resident provides containers •Five (5) container limit for trash; unlimited curbside
<p>Low Volume Program</p> <ul style="list-style-type: none"> •\$11.49 •Resident provides containers •Two (2) container limit for trash; unlimited curbside
<p>Extra Trash Disposal Capacity</p> <ul style="list-style-type: none"> •\$2.00 per bag
<p>Bulk Item Collection</p> <ul style="list-style-type: none"> •\$8.00 per item

The Villages of Woodville and Gibsonburg contracted with Buckeye Sanitation to operate non-subscription curbside recycling programs. Buckeye Sanitation also offered subscription curbside recycling to residents in the Village of Lindsey. FSI and Republic offered subscription curbside recycling to residents in the City of Bellevue.

Seneca County

During 2013, there were no residential curbside recycling programs operating in Seneca County. The City of Fostoria passed an ordinance requiring all haulers that conduct business in the City to offer curbside recycling although the ordinance was not strictly enforced.

Curbside Economic Incentives

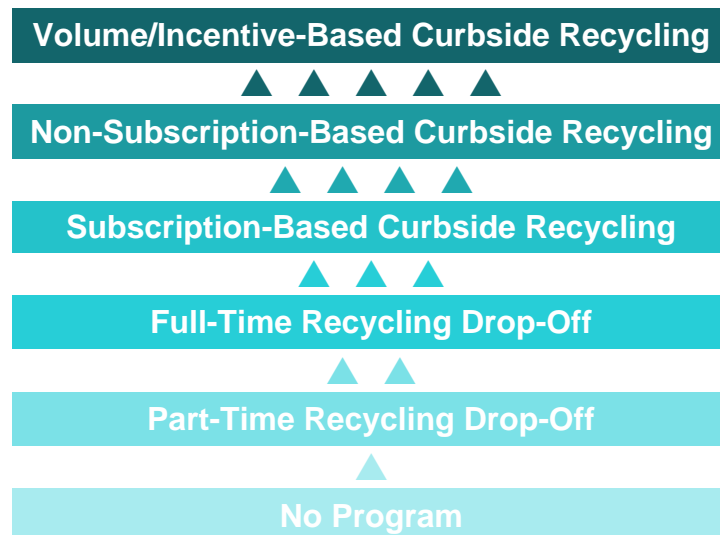
Ohio's *State Solid Waste Management Plan* requires that Districts have in place or evaluate the feasibility of providing financial incentives to increase participation in the recycling programs which are used to demonstrate access to recycling.

At the present time, three Pay-As-You-Throw (PAYT) waste collection programs are operating in conjunction with non-subscription curbside recycling programs:

- City of Fremont
- City of Port Clinton
- Village of Oak Harbor

Two Townships (Ballville and Sandusky) in Sandusky County had PAYT residential refuse collection. Residents living in these townships must purchase special bags to dispose of waste. Full-time recycling drop-offs are available in both townships. The drop-offs are operated by the District through a contract with Rumpke. PAYT programs provide a direct economic incentive to residents to reduce waste and dispose of less materials.

The District strongly supports curbside recycling programs and believes this system of recycling for the residential sector is the most effective, especially when combined with a PAYT system for disposal activities. Based on this, the District supports the following hierarchy for residential recycling programs:



The District promotes the above referenced recycling program hierarchy whenever possible with the municipalities in the three-county area. Promotion of this hierarchy includes meeting with officials in cities and villages that do not have curbside recycling programs to discuss options for implementing curbside collection.

The following table summarizes the program details:

Curbside Recycling Program Summary	
Description	Details
District Budget Number	OSS-1
OEPA Program Number	2431, 2433, 2435, 2434, 2429, 2438, 2440, 2432, 2439, 2444, 7946-7952, 7954-7958, 8013
Entity Responsible for Maintaining Program	Political Subdivisions
Service Area for Program	District
Materials Reduced/Recycled	Aluminum cans, steel cans, glass, plastic, newspaper, and cardboard; other materials vary by program
2013 Recycled Tonnage	1,341 tons
2013 Program Costs	\$0
Program Operator/Contractor	Republic Waste, FSI Disposal, Buckeye Sanitation, Waste Management

Strengths of the program include:

- Provides a convenient way for residents to recycle.
- Accepts more materials, i.e., magazines, cardboard.
- Weekly service enables residents to accumulate fewer materials between service intervals.
- Ability to commingle recyclables.

Challenges of the program include:

- Not all communities in the District have curbside recycling service.
- Only three of the curbside recycling communities in the District have PAYT service.
- Contamination of materials.
- Other materials such as junk mail, mixed paper and magazines is not universally accepted.
- Inconsistent data collection between District, community and hauler.

- The District needs to continue an education effort to increase participation and explain what materials can be recycled in the program.

2. Drop-Off Recycling

Multi-Material Programs

The District made a significant change in the drop off infrastructure for townships across the District. In the past, the recycling programs were a combination of full-time drop-offs in Ottawa County and part-time drop-offs open as little as 3 hours a month in Sandusky and Seneca Counties.

The District began working with the townships across the District in 2011 to develop a better system for the drop-offs. The District held a series of education meetings with the townships on a proposal to contract one uniform recycling collection system in all of the townships within the District. After working with the townships and having them agree to host the programs, the District developed a Request for Proposals (RFP) that was sent to interested haulers within the District. The District awarded the bid to Rumpke Recycling and the program began operating in October 2012.

There were 41 full-time drop-off sites and 3 part-time drop-off sites with 147 containers located in the District. The containers were 8 yard front-load units and each had a large decal on the front of the container explaining what materials can and cannot be recycled in the container. The containers had side doors and bubble top lids where materials could be deposited in the opening. Full-time drop-offs were available every day during daylight hours.

The District developed a slogan (“Aim to Be Green”) to be displayed on all drop-off collection containers. The goal of this program was to provide a uniform system across the three counties. Since the identical materials are accepted in all of the bins, it makes it easier for the District to publicize the program. The following figures present informational sheets that were provided to residents about the drop-off program:

FULL-TIME RECYCLING DROP-OFF

Open 7 days a week, during daylight hours

ALL MATERIALS CAN BE PUT INTO CONTAINER TOGETHER

GLASS

BOTTLES & JARS ONLY



- Rinse thoroughly.
- Remove lids.
- **NO** window glass, dishes or cookware, drinking glasses, light bulbs, mirrors, ceramic or china.



METAL

ALUMINUM & STEEL CANS



- **RINSE THOROUGHLY**
- Includes empty aerosol cans (with lids and tips removed).
- **NO** hangers, pots or pans.



PLASTIC

ALL #1 - #2 PLASTICS & #3 - #7 CONTAINERS



- **RINSE.** Containers should be empty or without liquids.
- **NO** plastic bags, motor oil containers, buckets, styrofoam, toys, butter tubs, etc.
- Remove lids.



PAPER

CARDBOARD • CARTONS • JUNK MAIL • MAGAZINES • NEWSPAPER
OFFICE PAPER • PAPERBOARD • PHONE BOOKS



- Includes phone books & paper back books. **NO** hard back books.
- Remove plastic wrappers from newspapers and magazines.
- Leave advertisement inserts in newspaper.
- Cartons for juice, soy milk, milk, broth, cream, egg substitutes (remove caps & straws) **NO** foil pouches.
- **FLATTEN ALL BOXES**
- Remove all packaging materials: tissue paper, packaging peanuts, styrofoam, bubble wrap, etc.
- **NO** colored construction paper, candy wrappers, tissues, wax coated materials, napkins, hanging or reinforced file folders, copy paper covers, carbon paper, etc.



PLEASE KEEP AREA AROUND CONTAINERS CLEAN SO WE CAN CONTINUE TO OFFER SERVICE.

Follow Your Recycling Path

RECYCLE AT HOME
Look around your home at all the things that can be recycled. Glass, plastic, aluminum, steel cans and more.

TAKE IT TO THE BIN
Place your recyclable materials in the car and make a trip to your nearest bin to be Green recycling bin located close to your home.

SHIP IT OUT
Aluminum, glass, plastic and other materials have been sorted and baled during the recycling process. The bales are loaded onto shipping trailers to be transported to another facility to become a finished product.

READY, SET PROCESS
Materials are taken to Rumpke Recycling's Materials Recovery Facility in Columbus, Ohio. This facility uses optical scanners, bursts of air, eddy currents, overhead magnets and screens to sort materials at 60,000 to 80,000 lbs. per hour.

MATERIALS ACCEPTED

Recycling Checklist

- ✓ Aluminum
- ✓ Cardboard
- ✓ Glass Bottle / Jars
- ✓ Juice Cartons
- ✓ Magazines
- ✓ Newspaper
- ✓ Office Paper
- ✓ Paperboard
- ✓ Plastic Bottles & Containers
- ✓ No Plastic Bags
- ✓ Steel Cans

EVERYTHING OLD IS NEW AGAIN
Take a look at the materials you recycle everyday and check out the finished products they are made into.

Aluminum Cans	Cardboard	Glass Bottles / Jars	Cartons	Magazines	Newspaper	Office Paper	Steel Cans	Paperboard	Plastic - #1 & #2 Bottles & #3 - #7 Containers
Aseptic Cartons	Cardboard	Highway Paint	Copy Paper	Paperboard	Insulation	Paper Towels	Appliances	Toilet Paper/Tissues	Plastic Shipping
Made into: aluminum cans, aluminum foil, wire, pipe, appliances, awnings, gutters and downspouts.	Made into: cardboard.	Made into: highway maintenance, paint buckets, buckets, canisters, reflective highway paint and beach sand restoration.	Made into: paper towels, tissues, napkins, office paper and building materials.	Made into: paperboard and office paper.	Made into: insulation, cardboard and home insulation.	Made into: cardboard for cereal boxes and recycled paper products, newspapers, toilet paper, paper towels, office copy paper and stationery.	Made into: appliances and accessories, parts, construction parts, gas cooking stoves and structural steel.	Made into: paper towels, toilet paper and paper towel tubes.	Made into: plastic shipping, storage bins, and gear filter for clothing and laundry, steel bottles, plastic bottles, floor tile, fencing, shelving for parking, all kinds of toys.

Toll-Free: 1-888-850-7224
WWW.RECYCLEOSS.ORG

Materials accepted at each drop-off include the following:

- Glass bottles and jars
- Aluminum cans
- Steel cans
- #1 and #2 Plastic bottles and containers
- #3 - #7 Plastic containers
- Cardboard
- Paperboard
- Aseptic cartons
- Mixed paper (magazines, junk mail, newspaper, office paper)
- Phone books

The following section summarizes all drop-off programs for each county in the District.

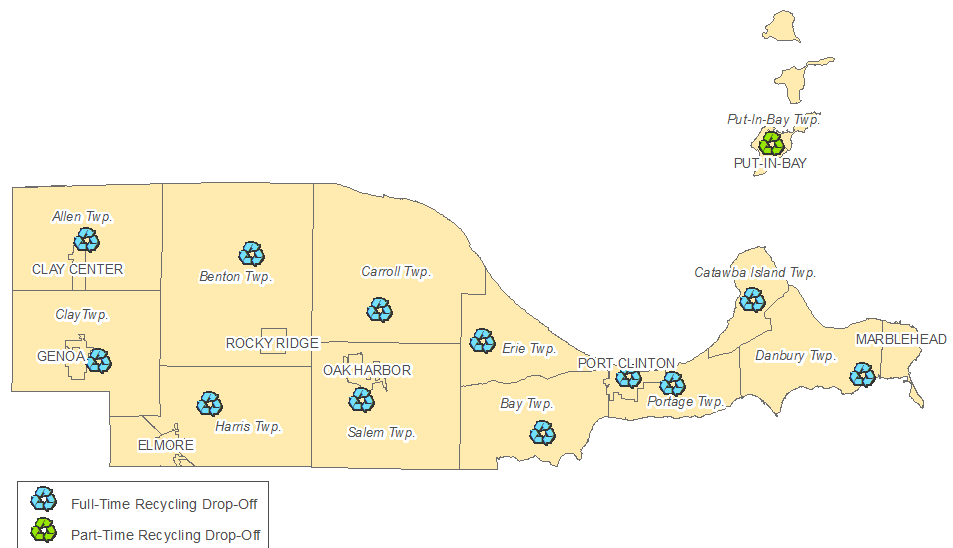
Ottawa County

A total of 12 full-time and 1 part-time drop-off recycling centers were located throughout Ottawa County during 2013. The part-time drop-off was located on Put-In-Bay, an island in Ottawa County. The locations collected 2,734,577 pounds of recycling in 2013.

Location	Operator	Operating Status
Allen Township	Rumpke	Full-time
Bay Township	Rumpke	Full-time
Benton Township	Rumpke	Full-time
Carroll Township	Rumpke	Full-time
Catawba Township	Rumpke	Full-time
Clay Township	Rumpke	Full-time
City of Port Clinton	Rumpke	Full-time
Danbury Township	Rumpke	Full-time
Erie Township	Rumpke	Full-time
Harris Township	Rumpke	Full-time
Portage Township	Rumpke	Full-time
Put-In-Bay Township	Republic	Part-time
Salem Township	Rumpke	Full-time

The following figure depicts the location of all drop-off centers in Ottawa County:

Ottawa County Drop-Off Recycling Centers



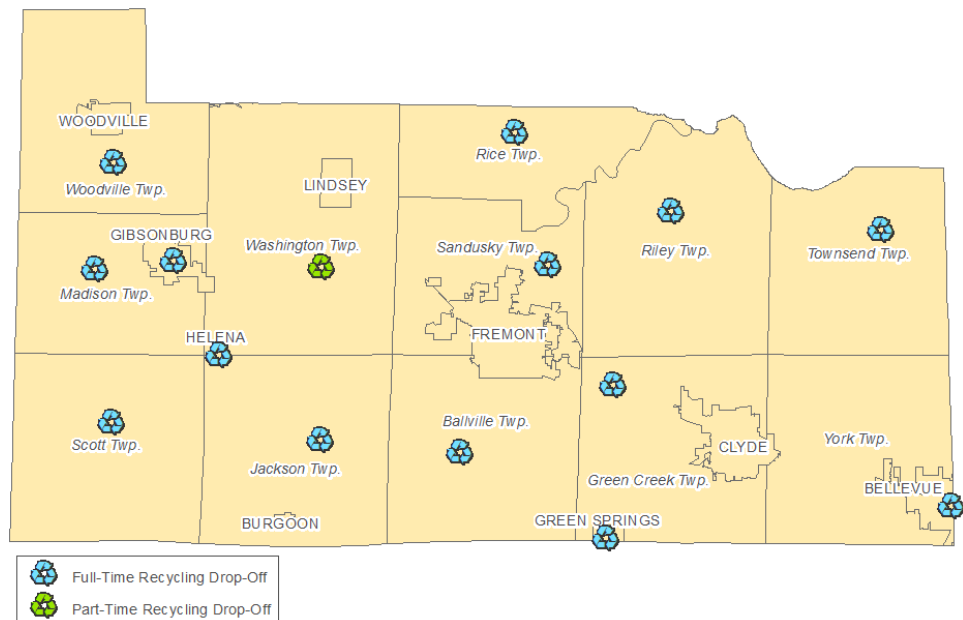
Sandusky County

A total of 14 full-time drop-offs and 1 part-time drop-off recycling centers were located throughout Sandusky County in 2013. The drop-offs collected 988,203 pounds of recycling in 2013. Locations of drop-off centers included:

Location	Operator	Operating Status
Ballville Township	Rumpke	Full-time
Bellevue/York	Rumpke	Full-time
Townsend Township	Rumpke	Full-time
City of Gibsonburg	Buckeye	Full-time
Green Creek Township	Rumpke	Full-time
Green Springs Twp./CCC-Recycling Center	District	Full-time
Village of Helena	Rumpke	Full-time
Jackson Township	Rumpke	Full-time
Madison Township	Rumpke	Full-time
Rice Township	Rumpke	Full-time
Riley Township	Rumpke	Full-time
Sandusky Township	Rumpke	Full-time
Scott Township	Rumpke	Full-time
Washington Township	Buckeye Sanitation	Part-time
Woodville Township	Rumpke	Full-time

The following figure depicts the location of all drop-off centers in Sandusky County:

Sandusky County Drop-Off Recycling Centers



Seneca County

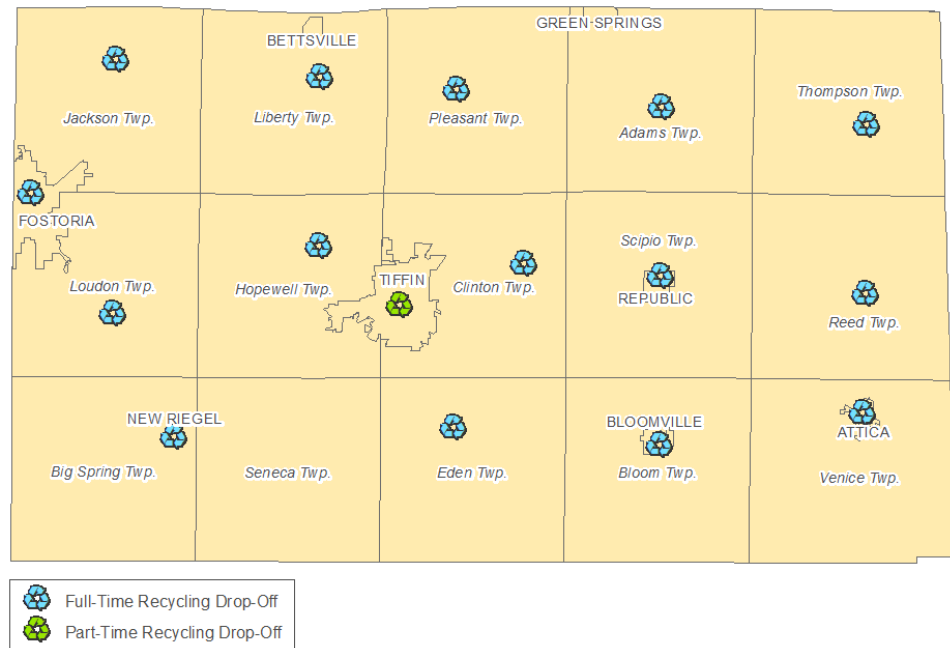
A total of 1 part-time and 15 full-time drop-off centers were located throughout Seneca County in 2013. The drop-offs collected 1,695,508 pounds of recycling in 2013. Locations of drop-off centers included:

Seneca County Drop-Off Recycling Centers

Location	Operator	Operating Status
Adams Township	Rumpke	Full-time
Village of Attica/Venice	Rumpke	Full-time
Big Springs Township, New Riegel	Rumpke	Full-time
Bloom Township	Rumpke	Full-time
Clinton Township	Rumpke	Full-time
Eden Township	Rumpke	Full-time
City of Fostoria	Kohart Recycling	Full-time
Hopewell Township	Rumpke	Full-time
Jackson Township	Rumpke	Full-time
Liberty Township	Rumpke	Full-time
Pleasant Township	Rumpke	Full-time
Scipio Township	Rumpke	Full-time
City of Tiffin	Karl's Hauling	Part-time
Thompson Township	Rumpke	Full-time
Loudon Township	Rumpke	Full-time
Reed Township	Rumpke	Full-time

The following figure depicts the location of all drop-off centers in Seneca County:

Seneca County Drop-Off Recycling Centers



Limited Material Programs

In 2013, there were multiple limited material recycling drop-offs located throughout the District. These facilities were primarily operated by the private sector with a few not-for-profit and public sector operators.

These facilities accepted single or limited items for recycling such as motor oil, antifreeze, car batteries and aluminum cans. Other materials such as cardboard, mixed paper, wood and other materials were also accepted.

The District maintained a list of businesses that accepted these materials on the District’s website.

The District includes these facilities in this section of the *Plan Update* as they are an important part of the drop-off recycling infrastructure of the District. Since these programs did not collect all of the materials designated for residential recycling, they cannot be used to demonstrate residential access and will not be included in Section VI of this *Plan Update* regarding the implementation schedule.

The following table summarizes the program details.

Drop-Off Recycling Program Summary	
Description	Details
District Budget Number	OSS-2
OEPA Program Number	8012, 7969, 7996, 7963, 7968, 7965, 4790, 2451-2457, 2465, 2459, 2461, 2463, 4789, 7936-7938, 7941-7942, 4788, 2467, 2469-2474, 2477-2478, 2480, 2483, 2485, 2487, 2489, 2492, 2494, 2497-2500, 3858-3859, 4787, 7939-7940, 7953, 8008
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Aluminum cans, steel cans, glass, plastic, newspaper, appliances, scrap tires, cardboard and other metals
2013 Recycled Tonnage	2,709.14
2013 Program Costs	\$239,712
Program Operator/Contractor	Rumpke

Strengths of the program include:

- The District has developed a uniform drop-off program throughout the District.
- The program is available full time during daylight hours.
- Provides recycling opportunities when curbside is not available.
- Large range of recycled materials accepted including all types of paper and plastics. Also accept aseptic containers.
- Programs are free to the residents.
- Programs are strategically located for easy access for all residents.
- Containers are clearly marked with a large decal that lists materials that are accepted and those not accepted.
- The containers' three openings provide residents easy access for unloading their material.

- Mailboxes at location provide handout with information on our special collections.
- District owns containers so they can keep them properly maintained.

Challenges of the program include:

- Contamination of materials from private sector run programs.
- Wind can cause blowing plastic when truck dump containers.
- There is a risk of open dumping.
- Lid locks are not put back in place causing lids to blow open.

3. Yard Waste Management

In 2013, 23 yard waste composting facilities, field spreading operations, or food waste recycling operations in the District. They were as follows:

- 14 registered compost facilities
- 7 activities operated by political subdivisions that diverted organics either by distributing materials back to residents or land applying
- 1 commercial store chain recycling and donating food waste
- 1 network of food waste haulers

Generators of yard waste and organics also utilized four registered composting facilities located outside the District during 2013. Details about the facilities and activities are included in Table III-6, "Composting/Yard Waste Management Activities Used by the District."

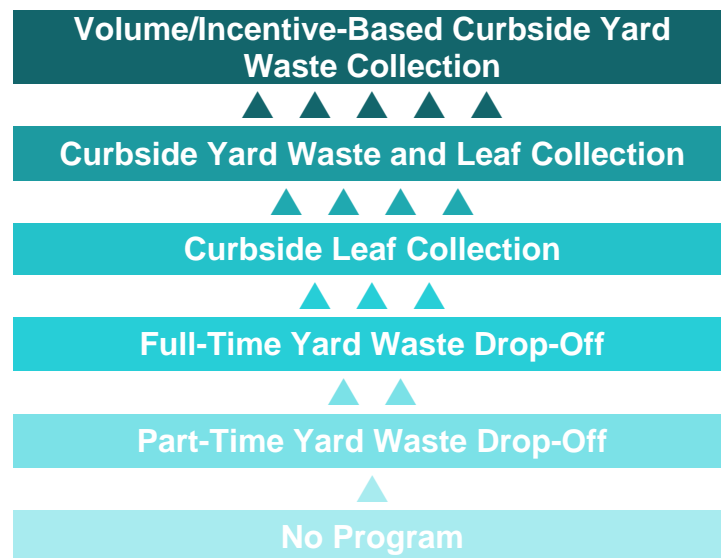
The Village of Genoa uses a key card system for their residents. Village residents who wish to utilize the yard waste drop-off facility may purchase a card from the Village for a nominal fee. The card is swiped over a unit that opens a gate giving residents access to an area where they can drop off their materials. The system tracks the date and time each cardholder uses the facility. This enables the Village to minimize the amount of dumping by residents and allows the Village to monitor activity remotely.

During 2013, the District made it a priority to address the issue of yard waste with political subdivisions. The District held meetings on

yard waste and invited townships, cities and villages to attend, along with local businesses who manage yard waste. The District encouraged these communities to investigate ways to develop or expand their yard waste programs and utilize the District's Competitive Funding Grant Program to apply for funds for these efforts.

From those series of meetings, several communities have begun a dialog to look at cooperative efforts and duplicating a key card system for yard waste drop-offs that exist in the Village of Genoa in Ottawa County.

The District strongly supports curbside recycling programs and believes this system of recycling for the residential sector is the most effective, especially when combined with a Pay-As-You-Throw system for disposal activities. Based on this, the District supports the following hierarchy for residential yard waste recycling programs:



In 2013, the compost facilities reported recycling approximately 21,758 tons of yard waste and 1,817 tons of food waste. Each private and public sector compost operation is responsible for their program or facility. The private sector operations provide service to the entire District. The public sector facilities were typically limited in service area to their respective communities.

The following table summarizes the program details.

Yard Waste Management Program Summary	
Description	Details
District Budget Number	OSS-3
OEPA Program Number	7970-7972
Entity Responsible for Maintaining Program	District Political Subdivisions and Private Sector Compost Facilities
Service Area for Program	District
Materials Reduced/Recycled	Yard waste, brush, leaves, grass, wood
2013 Recycled Tonnage	21,757.6 (yard waste) <u>1,816.6 (food waste)</u> 23,574.1 (total organics)
2013 Program Costs	\$0
Program Operator/Contractor	Various

Strengths of the program include:

- There were a significant number of leaf curbside programs in the District.
- There were a significant amount of operating compost facilities available to District residents and businesses.
- The District diverted a significant amount of yard waste from landfills in 2013.
- Residents appreciate the ability to receive free compost from some of the programs.

Challenges of the program include:

- Most communities in the District do not have curbside yard waste pick-up except for leaves in some counties.
- Storm debris is difficult to manage.

4. Household Hazardous Waste Management

The District conducted a comprehensive household hazardous waste (HHW) collection program in 2013, collecting a total of 125 tons of HHW materials at 6 collection events, two in each county of the District. Of this total, 113 total tons of HHW was recycled. Approximately 2,961 households participated in the HHW program in 2013. The collection events were held at the following locations in 2013:

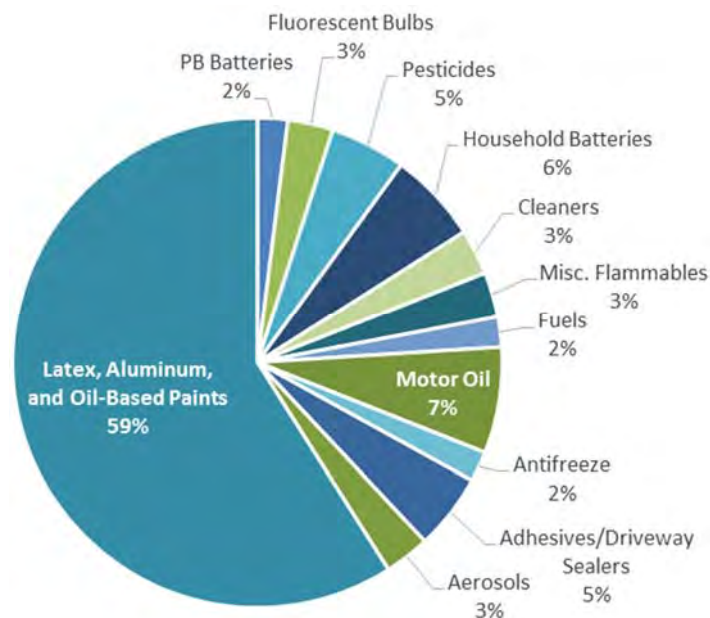
County	Address
Ottawa	Ottawa County Fairgrounds SR 163, Oak Harbor
Sandusky	Sandusky County Fairgrounds North Street, Fremont
Seneca	Seneca County Fairgrounds Hopewell Avenue, Tiffin

The following table summarizes the collection event by county including participation:

County	Collection Dates	Participating Households
Ottawa	4/27/2013 and 9/14/2013	766
Sandusky	4/27/2013 and 9/14/2013	1,155
Seneca	4/27/2013 and 9/14/2013	1,040
Totals		2,961

The following graph summarizes the HHW materials recycled in 2013:

2013 HHW Collection Event Totals



In addition, the District offered a free digital thermometer to any resident who brought a mercury based thermometer to any of the

collected events in 2013. The District limited one digital thermometer to each participating household.

The following table summarizes the program details.

HHW Program Summary	
Description	Details
District Budget Number	OSS-4
OEPA Program Number	7974-7976, 7980
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Paint, oil, antifreeze, pesticides, miscellaneous chemicals, roof tar, driveway sealer, tires
2013 Recycled Tonnage	125
2013 Program Costs	\$107,634
Program Operator/Contractor	Environmental Enterprises, Inc. (EEI)

Strengths of the program include:

- A significant portion of the HHW material collected is recycled.
- Six opportunities were offered to recycle HHW materials in 2013.
- All residents in the District have the opportunity to participate in the program.
- Volunteer assistance from the community with the operation of the program.
- Local recycling opportunities for propane cylinders.
- Publicity and promotion prior to collection events is very successful.

Challenges of the program include:

- A significant amount of materials collected are still usable.
- Cost of the program.

- Some of the collection sites can no longer accommodate the amount of residents that participate or the sites have conflicting events on the same day.
- Limited collection times.

5. Scrap Tire Collection

The District conducted three separate residential scrap tire collection events in 2013, one in each county. The collection events were held on October 12, 2013 simultaneously in each county. The collection events were held at the following locations in 2013:

County	Address
Ottawa	Ottawa County Fairgrounds SR 163, Oak Harbor
Sandusky	Sandusky County Fairgrounds North Street, Fremont
Seneca	Seneca County Fairgrounds Hopewell Avenue, Tiffin

A small fee was charged to residents for the acceptance of the following scrap tire types:

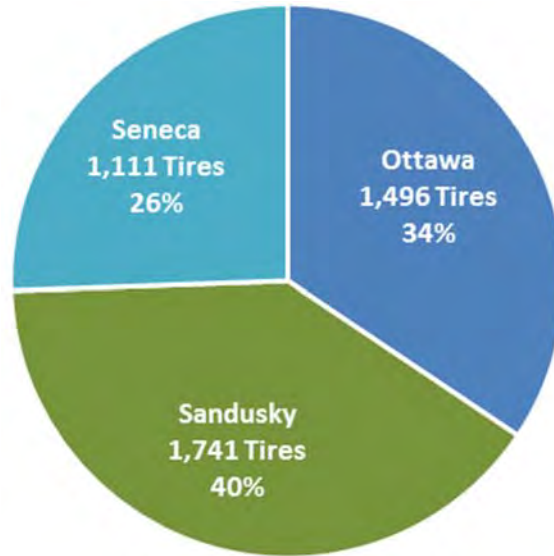
- Car and small truck tires - \$0.50 each
- Racing tires - \$2.00 each

The following table and chart detail the results of the 2013 scrap tire collection events:

County	Participating Households	Scrap Tires Collected	Tons
Ottawa	158	1,496	15
Sandusky	221	1,741	17
Seneca	129	1,111	11
Totals		4,348	43

The following figure presents the scrap tires collected by county:

2013 Scrap Tires Collected by County



The District held a Farm Tire Recycling Collection event in the City of Fremont during 2013.

The following figure presents an ad for one of the events as well as fees and event details:



The poster features a logo for the Ottawa-Sandusky-Seneca Joint Solid Waste Management District on the left, which includes a stylized trash can icon. The main title 'FARM TIRE Recycling COLLECTION' is prominently displayed in the upper right, with 'FARM' and 'COLLECTION' in red block letters, 'TIRE' in large black letters with a tread pattern, and 'Recycling' in a yellow script font. Below the title, the event is scheduled for 'LATE AUGUST' at the Sandusky County Fairgrounds, North Parking Lot, Fremont. Registration is open from Monday, August 12th to Friday, August 23rd. Contact numbers are provided as 419-334-7222 or 1-888-850-7224. The collection is for Ottawa-Sandusky-Seneca County, specifically for farm operators, owners, and residents, excluding dealers and agri-businesses. Three categories of tires are listed with their respective prices and included items: tires up to 36 inches for \$1.00 per tire, tires 37-60 inches for \$10.00 per tire, and tires 61 inches and larger for \$15.00 per tire. A small tractor icon is positioned below the middle category. A footer at the bottom of the poster provides registration instructions and contact information.

FARM TIRE Recycling COLLECTION

LATE AUGUST
@ Sandusky County Fairgrounds, North Parking Lot, Fremont

REGISTER MONDAY, AUGUST 12th THRU FRIDAY, AUGUST 23rd

419-334-7222 or 1-888-850-7224

Collection for Ottawa-Sandusky-Seneca County
FARM OPERATORS, OWNERS & RESIDENTS
NO DEALERS or AGRI-BUSINESSES

up to 36"	37" - 60"	61" & larger
\$1.00 per tire	\$10.00 per tire	\$15.00 per tire
INCLUDES: <ul style="list-style-type: none">• Implement Tires• Wagon Tires• Truck Tires• Skid Loader Tires• MOST Front Tires• 4-Wheeler Tires	INCLUDES: <ul style="list-style-type: none">• MOST Rear Tractor Tires• Semi Tires	INCLUDES: <ul style="list-style-type: none">• LARGE Rear Tractor Tires• ALL Combine Tires (regardless of diameter).

Please call the OSS Solid Waste District's Main Office to register between the hours of 8 a.m. & 4:30 p.m. Contact our office at 419-334-7222 or toll free at 1-888-850-7224.

The District's Farm Tire Recycling event is pictured to the right. Approximately 50 farmers brought in approximately 1,054 agricultural equipment tires to be recycled, weighing nearly 31 tons.



The District also conducts a collection for the Townships, Cities and Villages in the District as well as county agencies.

The following is a summary of the collections:

Township-City-Village Tire Collections	
Contractor Fees	\$1,950
Total Tires Collected	904
Tons Collected	9
Types of Tires Collected	
Type	Quantity
Car-Truck	679
Semi	18
Farm (Rear)	9

The following table summarizes the program details:

Scrap Tire Collection Program Summary	
Description	Details
District Budget Number	OSS-5
OEPA Program Number	2532-2533
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Scrap tires
2013 Recycled Tonnage	74
2013 Program Costs	\$12,600
Program Operator/Contractor	Enviro-Tire

Strengths of the program include:

- A significant amount of scrap tires are collected and recycled in the District.

- A greater variety of tires are accepted compared to past events.
- Use of inmate labor at collection events helps control costs.
- Cost of program is partially paid for by participants.
- Staffed collection events help minimize operational issues.

Challenges of the program include:

- Individual participants exceed the maximum allowable amount of scrap tires accepted.
- Cost of program to recycle the tires.

6. Lead-Acid Battery Management

The District promotes the recycling of lead-acid batteries through promotion of available outlets for recycling. There are a large number of retailers that accept lead-acid batteries throughout the District's three counties. The District used to publicize a week-long event where batteries could be taken to retail partners and residents would receive a small stipend.

The District transitioned to an overall promotion of lead acid battery recycling by providing static stickers to any retailer that accepts the batteries. The sticker helps residents easily identify local businesses who are recycling lead acid batteries throughout the year.

There are 31 participating businesses accepting lead acid batteries for recycling throughout the District.

The following figure shows the static sticker that appears in retailers' windows:



The District promotes a majority of the private sector businesses that accept lead acid batteries via the District's website at www.recycleoss.org. Promotions are done through the District's website, news releases, radio spots and social media posts in the spring. In addition, lead-acid batteries are also accepted for recycling at most scrap yards and auto salvage yards.

Lead-acid batteries were also accepted at the District's HHW collection events, which were held in each county during 2013.

The following table summarizes the program details:

Lead-Acid Battery Management Program Summary	
Description	Details
District Budget Number	OSS-6
OEPA Program Number	2538, 7977
Entity Responsible for Maintaining Program	District and Private Sector
Service Area for Program	District
Materials Reduced/Recycled	LABs
2013 Recycled Tonnage	N/A
2013 Program Costs	\$350.00
Program Operator/Contractor	District and Private Sector

Strengths of the program include:

- A significant amount of lead acid batteries are collected and recycled in the District.
- Local vendors take materials from residents.
- The District has developed a great partnership with many local retailers that accept batteries for recycling.
- Static stickers provide a way for residents to recognize retail locations that accept batteries.

Challenges of the program include:

- We do not have good data collection for how many batteries are recycled at individual retailers.
- Educating the residents on how to properly handle and transport lead acid batteries for their safety.

7. Appliance Collection

In 2013, the District again offered a comprehensive appliance recycling collection program. The collection events were held in each county at the following locations in 2013:

County	Dates	Location
Ottawa	5/4/2013 9/21/2013	Ottawa County Fairgrounds SR 163, Oak Harbor
Sandusky	9/21/2013	Sandusky County Fairgrounds North Street, Fremont
Seneca	9/21/2013	Seneca County Fairgrounds Hopewell Avenue, Tiffin

Sandusky and Seneca Counties have locations where residents can drop off their scrap metal and appliances year round, so only one collection is held annually in each of these counties. Ottawa County does not have any scrap dealers or other outlets for appliances and scrap metals, so the District provides two annual collections in Ottawa County.

The collection program accepted the following items for recycling:

- Air Conditioners
- Dehumidifiers and Humidifiers
- Clothes Washers and Dryers
- Cook tops, Ovens, Grills
- Deep Freezers, Refrigerators, Microwaves
- Dishwashers, Hot Water Tanks
- Lawn Mowers
- Car Parts

The collection program prohibited the following items for recycling:

- Televisions
- Computers
- Electronics – VCRs, DVD players, stereo equipment, etc.
- Plastic Fans or Vacuum Cleaners, etc.
- Deep Freezers and Refrigerators with food inside will not be accepted

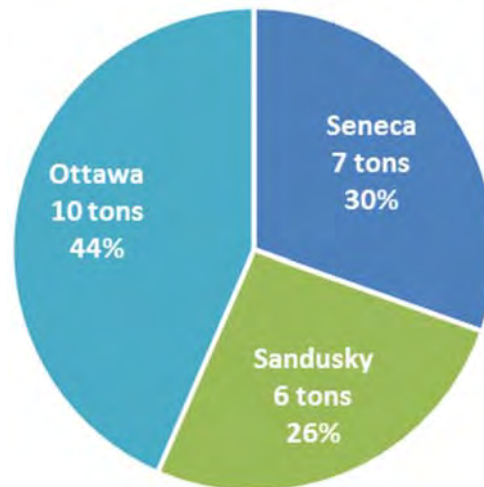
The following table and chart detail the results of the 2013 appliance collection program:

County	Participating Households	Appliances Collected	Tons
Ottawa	149	190	10
Sandusky	122	159	6
Seneca	123	182	7
Totals		531	23

Despite holding a second annual collection event in Ottawa County, the tonnage is not significantly greater than tonnage collected from single collection events in Sandusky and Seneca Counties. Volumes are less in Ottawa County because they have a lower population than the other two counties.

The following figure presents the totals collected by each county:

2013 Appliance Collection Totals by County



The following table summarizes the program details:

Appliance Collection Program Summary	
Description	Details
District Budget Number	OSS-7
OEPA Program Number	7978
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Appliances
2013 Recycled Tonnage	23
2013 Program Costs	None
Program Operator/Contractor	Burns Iron and Metal

Strengths of the program include:

- Since there are no outlets for appliance recycling in Ottawa County our collection provides residents with a viable outlet.
- Use of inmate labor at collection events helps control costs.

Challenges of the program include:

- Collections are only held once per year except in Ottawa County.
- Due to the inherent nature of the scrap yard business, recycling appliances directly at the scrap yard is not considered user friendly for the residents.

8. Electronics Collection

In 2013, the District conducted a comprehensive electronics recycling collection program. The District began collecting televisions in 2013. The collection events were held in each county at the following locations in 2013:

County	Dates	Location
Ottawa	5/11/2013 9/28/2013	Ottawa County Fairgrounds SR 163, Oak Harbor
Sandusky	5/11/2013 9/28/2013	Sandusky County Fairgrounds North Street, Fremont
Seneca	5/11/2013 9/28/2013	Seneca County Fairgrounds Hopewell Avenue, Tiffin

The collection program accepted the following items for recycling at no extra charge to the residents:

- CPU's
- Monitors
- Keyboards
- Mice
- Printers
- Cell Phone Equipment
- Cordless Power Tools
- All Audio/Video Equipment
- Televisions of any size or style (CRT*, projection, console, LCD, and plasma)

- Any item with an electrical plug that is not a large appliance and does not contain a refrigerant.

*Residents are charged a fee for the removal of lead from the CRTs.

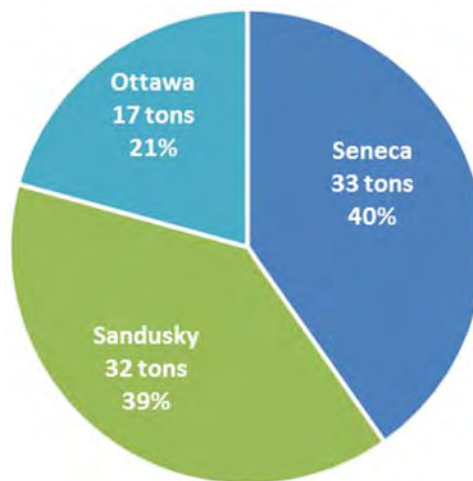
The collection program prohibited the following items for recycling:

- Computers from businesses
- Software packages
- Packing materials

The following table and chart details the results of the 2013 electronics collection program:

County	Electronics Collected	Tons
Ottawa	411	17
Sandusky	841	32
Seneca	964	33
Totals	2,859	82

2013 Tons of Electronics Collected by County



The following table summarizes the program details:

Electronics Collection Program Summary	
Description	Details
District Budget Number	OSS-8
OEPA Program Number	7979, 8009
Entity Responsible for Maintaining Program	District

Electronics Collection Program Summary	
Description	Details
Service Area for Program	District
Materials Reduced/Recycled	Electronics
2013 Recycled Tonnage	82
2013 Program Costs	\$13,495
Program Operator/Contractor	2trg

Strengths of the program include:

- A significant amount of electronics are collected and recycled in the District.
- Use of inmate labor at collection events helps control costs.
- A more competitive market is creating recycling opportunities and outlets aside from those offered through a public service.

Challenges of the program include:

- Negative publicity regarding the recycling of electronic equipment.
- Cost of TV recycling.
- No outlets for collection of big screen and console TVs between events.

9. Material Recovery Facilities

The District has one in-district MRF and several out-of-district facilities that process recyclables from collection programs operating in the District.

WSOS Quilter CCC Camp (Currently OSS Solid Waste District Recycling Center)

Recyclable materials in Sandusky County and Seneca County are collected by the District and brought to the recycling/material processing center at the Wood Sandusky Ottawa and Seneca (WSOS) Civilian Conservation Corps (CCC) Quilter Camp in Green Springs. The recycling center originated in 1999 and was a cooperative effort between the District and the WSOS Community Action Commission (CAC). The District now operates the facility with its own labor.

The WSOS Quilter CCC Camp is a two thousand square foot processing facility that accepts clear and colored glass containers, newspaper, magazines, office paper, cardboard, #1 through #7 plastic containers, aluminum and steel cans.

The following figure presents the facility from the outside:

WSOS Quilter CCC Camp



It is typically operated by two employees, one full-time supervisor (37.5 hours per week) and one part-time processing facility assistant (25 hours per week).

The facility is equipped with an Excel EX-62 horizontal baler. The baler is used to process sorted office paper, newspaper, magazines, cardboard, aluminum cans and steel cans. All material accepted at the facility is source-separated as the facility does not have the means, space, or manpower to sort co-mingled material. The facility on average sends out approximately 500,000 pounds (250 tons) of baled material per year.

The following figures present the horizontal baler:

Horizontal Baler at WSOS Quilter CCC Camp



Glass and plastics #1 through #7 are accepted at the facility, but are placed in 8 cubic yard containers serviced by Rumpke Recycling. The facility accepts materials from more than 70 entities located in the District, including schools, churches, libraries, government agencies, non-profit agencies, and the residential recycling drop-off located at the facility. To avoid competing for business with local haulers, the facility does not service "for profit" entities.

The following figure presents the residential recycling drop-off located at the facility:

Drop-Off at WSOS Quilter CCC Camp



Each entity that generates recyclables that are processed by the facility is given 2 cubic yard containers to collect source-separated materials. The quantity of containers at each site range from 1-6. Entities are serviced on a requested pick-up system accessed through the District's website. When a service request is made, the District loads empty containers onto the back of either an International M-7 box truck equipped with a lift gate (6 container

capacity), a Ford F-350 equipped with a lift gate (3 container capacity), or a 1 ton pickup truck pulling a ramped flatbed trailer (5 container capacity).

If a container at a site contains enough of a single material that a full bale can be made, it is taken to the facility for processing. The District replaces the full containers at the site with empty containers.

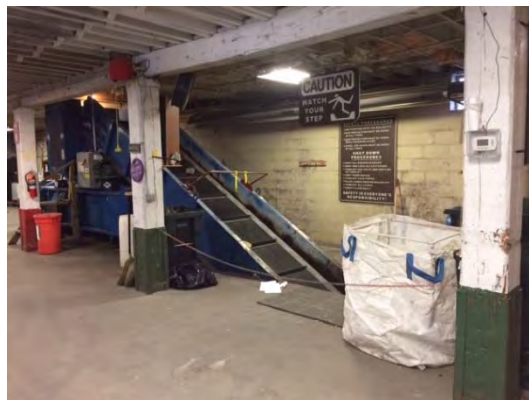
At the facility, containers of materials are placed on a hydraulic container tipper which slowly tips the containers onto a conveyor that feeds into a baler.

The following figures present the hydraulic container tipper and the conveyor that feeds into the tipper:

Hydraulic Container Tipper at WSOS Quilter CCC Camp



Material Conveyer at WSOS Quilter CCC Camp

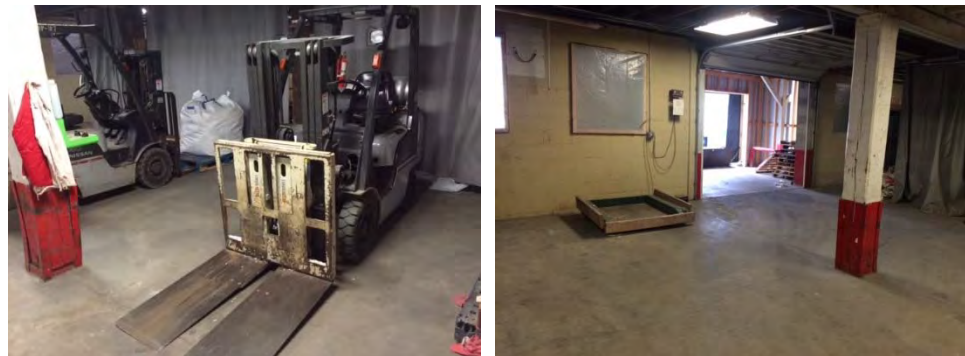


When a sufficient amount of material is placed into the baler, a tone will sound alerting the workers that the baler is full. Workers then manually wrap and tie six baling wires around each bale to hold them together. Wire tied bales are transported to a scale where the weight

is recorded and placed in a docked semi-trailer. When the trailer is near capacity (41,000 to 43,000 pounds), it is picked up by Toledo-Ohio based recycling company, Gateway Recycling.

The following figures present the forklift used to transport bales from the baler to the scale (left) and the scale and dock (right):

Forklift, Scale, and Dock at WSOS Quilter CCC Camp



The following figure presents the 2013 statistics on the District Recycling Center:

OSS Solid Waste District Recycling Center	
Revenue	\$17,219
Material	Tons
Cardboard	72
Magazines	31
Newspaper	20
Office Paper	85
#1 and #2 Plastics	10
Steel	4
Aluminum	0.5
Books	47
Total	269.5

The following table summarizes the program details:

Material Recovery Facilities (MRF) Program Summary	
Description	Details
District Budget Number	OSS-9
OEPA Program Number	4806-4807
Entity Responsible for Maintaining Program	District
Service Area for Program	District

Material Recovery Facilities (MRF) Program Summary	
Description	Details
Materials Reduced/Recycled	Cardboard, magazines, newspaper, office paper, #1 and #2 plastics, steel, aluminum, books
2013 Recycled Tonnage	100
2013 Program Costs	\$75,000
Program Operator/Contractor	District

Strengths of the program include:

- Increased recycling capacity in the District.
- Allows direct haul of recyclables to local MRFs by businesses, governments, schools and institutions.
- Camp provides year round recycling drop-off services District-wide for residents who do not have local recycling services.

Challenges of the program include:

- Camp is limited for future expansion in processing capacity.
- Because of low volume of recyclables, the Camp does not receive the best market price.

Residential and commercial collection programs vary in operation schedules.

The following table presents when each program operated during 2013:

Adult Education Programs	Program Number	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Curbside Collection	OSS-1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Drop-Off Collection	OSS-2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Yard Waste Collection - Leaves	OSS-3									✓	✓	✓	✓
Yard Waste Collection - Drop-Off	OSS-3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HHW Collection	OSS-4					✓				✓			
Tire Collection	OSS-5										✓		
Twp. Tire Collection	OSS-5				✓							✓	
LAB Collection	OSS-6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Appliance Collection	OSS-7				✓					✓			
Electronics Collection	OSS-8					✓					✓		
Material Recovery Facilities	OSS-9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

RESIDENTIAL/COMMERCIAL/INDUSTRIAL MARKET DEVELOPMENT PROGRAMS

The District promotes recycling markets through a variety of education and awareness activities, grant applications and direct market support. The following section summarizes the District's Market Development Programs.

1. Recycling Market Development Grant

The Recycling Market Development Grant is a grant program operated by Ohio EPA. The District identifies and contacts industries that may be ideal candidates for the Recycling Market Development Grant to raise awareness about grant opportunities. When identifying candidates for the grant, the District tries to identify industries that need the following:

- Processing equipment for plastic or glass recycling
- Processing equipment for organic waste recycling
- Processing equipment for fiber materials recycling
- Processing equipment for carpet and padding recycling
- Processing equipment for electronics recycling
- Equipment to improve construction and demolition debris recycling efforts

If an industry is identified as an ideal candidate and the industry is interested in pursuing a grant opportunity, the District provides technical assistance in preparing the grant application.

In 2013, the District applied for and received a \$125,000 grant from Ohio EPA for FSI Recycling in Clyde, Ohio. The grant allowed FSI Recycling to purchase a ballistic separator which is used at the end of the processing line at the FSI MRF. A ballistic separator is a low operational and maintenance cost alternative to using disk screens. A ballistic separator can sort three different materials simultaneously.

The following table summarizes the program details:

Recycling Market Development Grant Program Summary	
Description	Details
District Budget Number	OSS-10
OEPA Program Number	7981
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Plastic, paper
2013 Program Costs	\$0
2013 Amount Awarded by Ohio EPA	\$125,000
Program Operator/Contractor	District

Strengths of the program include:

- Provides funding to encourage recycled materials.
- Establishes public private partnership.
- Assists local companies with growth in their recycling operations.

Challenges of the program include:

- Many companies are unaware of the program.
- The program is dependent on State funding which may or may not be available in the future.
- Many companies do not have the expertise to prepare grant applications.

2. Competitive Funding

The Competitive Funding program was created to provide financial assistance to local governments, educational institutions and non-profit organizations for solid waste programs. The District cannot, by law, fund any privately owned business.

The grant program was created to provide funding to achieve the following objectives:

Education Programs

- Funding is available for programs that increase participation in recycling programs by District residents. This includes education programs in schools and educational information targeted to the general public.

Composting/Yard Waste Management

- The District will consider funding that encourages back yard composting or the proper management of different types of yard waste.

Recycling/Waste Reduction

- Funding is available for the establishment or expansion of waste reduction or recycling programs. This could include the establishment of office paper programs and business or government recycling programs.

Buy Recycled

- Funding is available for the purchase of products made from recycled materials. This could include recycled plastic furniture for parks, playground equipment, playground surface made from tires or any other products made with recycled content.

Other Projects

- The District realizes there are other projects that may not fall under the categories listed above. If there is a project you feel would result in a significant waste reduction or utilize hard to recycle materials, please submit it under the "Other Projects" category.

The District provides a specified amount of money in the budget each year for the Competitive Funding Program. Funding applications are awarded in two equal rounds in January and June of each year. The District has a committee who reviews the grants and makes recommendation to the Board of Directors based on the grant program objectives. The District limits project requests to a maximum of \$10,000.

In 2013, the District awarded grants to the following:

Name	Amount	Grant Objective	Project
Allen Township	\$7,625	Buy Recycled	Fence
Ballville Township	\$4,145	Buy Recycled	Playground Surfacing
Camp Fire Buckeye Council	\$1,640	Buy Recycled	Sign & Mulch
Village of Green Springs	\$6,750	Buy Recycled	Cribbing
Hopewell Township	\$2,408	Buy Recycled	Signs
Luther Home of Mercy	\$3,869	Buy Recycled	Recycled Folding Chairs
Village of Oak Harbor	\$3,999	Buy Recycled	Benches
Otterbein North Shore Retirement	\$5,093	Buy Recycled	Fence
City of Port Clinton	\$6,400	Buy Recycled	Picnic Tables
Sandusky County Dog Kennel	\$768	Buy Recycled	Sign
City of Bellevue	\$5,000	Buy Recycled	Signs
Benton Township	\$3,066	Buy Recycled	Signs
Bridges Community Academy	\$2,095	Buy Recycled	Playground Surfacing Material
Catawba Island Township	\$1,520	Buy Recycled	Benches
Danbury Local Schools	\$1,600	Buy Recycled	Chairs
Heidelberg University	\$5,025	Buy Recycled	Waste Receptacles
Lutz Elementary School	\$10,000	Buy Recycled	Playground Equipment
Ottawa Soil & Water District	\$3,469	Buy Recycled	Sign
St. Francis Home	\$972	Buy Recycled	Furniture
Seneca County Transportation Agency	\$666	Recycling	Recycling Containers
Tiffin University	\$5,214	Buy Recycled	Signs
Townsend Township	\$4,664	Buy Recycled	Fence
Total	\$85,988		

The following table summarizes the program details:

Competitive Funding Program Summary	
Description	Details
District Budget Number	OSS-11
OEPA Program Number	7982-7983, 8011

Competitive Funding Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Varies
2013 Program Costs	\$42,697 (Round 1)
	\$41,691 (Round 2)
	\$85,988 (Total)
Program Operator/Contractor	District

Strengths of the program include:

- Assists communities with establishing recycling programs.
- Establish a working relationship with local communities, non-profit organizations, schools and other local government agencies.
- Creates greater awareness of District programs.
- Creates greater awareness for recycling and market development issues.
- Program is designed to create or expand recycling programs.
- Once program is in place, additional funding is available to purchase recycled content products and materials.

Challenges of the program include:

- Funds are limited.
- Application information is not complete for some of the grant requests.
- The program is not universally recognized across the District.

3. City and Village Funding

The City and Village Funding (CVF) program was created to provide funding to local governments for solid waste programs. The District provides a specified amount of money in the budget each year for the CVF Program. In general, the District gives \$8,500 to cities, and \$3,000 to villages. Communities are allowed to spend their funds over an 18-month period. The District has increased funding to communities for special programs and requests as needed. Each

community must apply for the funds through a detailed process that included strict financial controls.

In 2013, the District spent \$63,088 for this program. Program funds are used to enhance or expand waste diversion programs and to purchase recycled-content products. Some communities also use the funds to supplement operational costs for yard waste programs including grinding services.

The following table summarizes the funding program for 2013 by political subdivision:

Name	County	Amount	Project
Genoa	Ottawa	\$3,000	Yard Waste Grinding
Clay Center	Ottawa	\$2,770	Recycled Plastic Waste Containers & Benches
Elmore	Ottawa	\$2,585	Bleachers
Marblehead	Ottawa	\$3,000	Yard Waste Grinding & Fence
Oak Harbor	Ottawa	\$2,986	Recycled Paper & Floor Mats
Put-In-Bay (Village & Twp.)	Ottawa	\$5,750	Recycling
City of Port Clinton	Ottawa	\$8,497	Sign, Mulch, Picnic Tables
Village of Gibsonburg	Sandusky	\$3,000	Yard Waste Grinding
Village of Lindsey	Sandusky	\$3,000	Yard Waste Grinding & Picnic Table
City of Bellevue	Sandusky	\$8,500	Mulch & Recycled Flooring
Village of Woodville	Sandusky	\$3,000	Yard Waste Grinding
City of Fremont	Sandusky	\$8,500	Yard Waste Grinding
City of Fostoria	Seneca	\$8,500	Yard Waste Grinding
Total		\$63,088	

The CVF program is not utilized as extensively in Seneca County because many of the small villages do not operate curbside recycling programs. The District provides funding to start or expand their recycling program or to help fund yard waste programs. If the community does not have a recycling program they are not eligible for recycled products funding. Communities like the Village of Attica teamed with Venice Township for the Aim to Be Green program. The Village does not receive any additional funds because the District is already contractually supporting the Aim to Be Green Recycling Program.

The following table summarizes the program details:

City and Village Funding Program Summary	
Description	Details
District Budget Number	OSS-12
OEPA Program Number	7984
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Varies
2013 Program Costs	\$63,088
Program Operator/Contractor	District

Strengths of the program include:

- Assists communities with establishing recycling programs.
- Establish a working relationship with local communities and other local government agencies.
- Program is designed to create or expand recycling programs.
- Assists local communities with offsetting the cost of recycling programs.

Challenges of the program include:

- None noted.

RESIDENTIAL SECTOR EDUCATION AND AWARENESS PROGRAMS

The District utilizes a variety of efforts to provide education and awareness to all sectors in each County for both youth and adult audiences. The following section summarizes the District's education and awareness programs for 2013.

1. Education and Awareness

Each of the three counties in the District has an active recycling education and awareness program. Since the ODNR funding for education and awareness ended in 2005, the District began managing the education and awareness program in-house through three dedicated education specialists that provided education and awareness services in each county. This program consists of the following main areas of emphasis:

- Youth Education and Teacher Support

- Adult Education
- Publications
- Website and Social Media

The following section summarizes each education area of emphasis and activities that occurred in 2013.

a. Youth Education

The District conducts a variety of activities designed for school age children. These activities included presentations, contests, tours of solid waste facilities and general solid waste awareness activities.

1. Mascot

The District utilizes a mascot to assist in the education and awareness program and to provide identity or branding to the program. The mascot, Myrtle the Recycling Turtle, makes appearances at community based events, Earth Camp, fairs, festivals, and parades.

The following is a brief description of the mascot:



MYRTLE the TURTLE

"MYRTLE" stands for the phrase, "Making Your Resources, Tomorrow's Living Environment".

Myrtle is available to make appearances at various community based events including fairs, festivals and parades.

For more information please contact the District's main office toll free at 1-888-850-7224 or 419-334-7222.

2. Billboard Contest

In 2013, the Education Specialists in each county sponsored a billboard contest for fifth graders. Students were encouraged to create and submit a design with a recycling or litter prevention theme. The District selects six winning designs which are each posted on a billboard in the county of the student who submitted the design. The



contest is run annually and the billboards are posted throughout the month of April in celebration of Earth Day on April 22. In addition to having their artwork displayed on a billboard, winners also received a mini-billboard featuring their artwork and an eco-friendly fleece made from recycled PET plastic.

3. Calendar Contest

The District sponsors a contest for middle and high school students throughout the three counties. Winning entries are used in the District's calendar.

4. Teacher Support

The District maintains a page on its website for educators that includes classroom presentation, lessons, experiments, class materials, and informational links to assist teachers with incorporating environmental education into their curriculum.

5. Classroom Presentations

The District's three Education Specialists provide presentations upon request to local schools. Presentations in Ottawa County include:

What Program Topics are Being Offered at Each Grade Level?



RE-SCHOOL - *The Little Fisherman*

Students will enjoy a demonstration story about a boy who encounters various states of health in our own Lake Erie. The students will watch as a pool of water becomes polluted right before their eyes. Discussion will follow as to what we can do to prevent this situation in the future.



KINDERGARTEN - *The Wartville Wizard*

Students will enjoy a fun story about a man who becomes a wizard with the power over trash. Discussions about the importance of a litter-free America and recycling are followed by a chance for the students to build a small toy out of "trash".



1st GRADE - Reduce, Reuse, Recycle Show & Tell

Students learn about the 3 R's of keeping the earth clean and healthy. This show and tell activity allows students to see real life examples of "trash" that could be reduced, reused or recycled and the products that could be made from this "trash".



2nd GRADE - Spaceship Earth

Students discuss the three R's (reduce, reuse and recycle) and then put them to use in a simulated flight into space. A competition to see which small group could survive and prosper on a fictitious 80 year flight shows the importance of the three R's.



3rd GRADE - Recycled Paper Making



Students learn the various materials that can be recycled and get a chance to form a recycled paper company where they will actually produce paper. Discussions follow to reinforce the need to recycle.



4th GRADE - Garbage Archeology

Throughout history humans have gone through various forms of recycling. In this activity students get a chance to explore those forms by examining "trash" from various points in time in a fun kind of competition.



5th GRADE - Birdseed Mining

A discussion about renewable and non-renewable natural resources is followed by a fun competition to see which small group can harvest "valuable" materials from the earth. The earth in this simulation is a bowl full of birdseed and other items.



Presentations available in Sandusky County include:

What Program Topics are Being Offered at Each Grade Level?



PRE-SCHOOL - How the Spider Stopped the Litterbugs



Students will enjoy a short story about the litterbugs who mess up the park and how it takes everyone to keep it clean. After the story, students learn the safety rules of cleaning up litter and participate in an actual litter clean up of a nearby area.



KINDERGARTEN - The Day the Trash Came Out to Play



This rhyming book makes learning about litter lots of fun. The story is followed up with a "fishing for litter habits" activity where students participate in a group activity and determine the difference between healthy and unhealthy litter habits (45 minute session).



1st GRADE - Reduce, Reuse, Recycle Show & Tell



Students learn about the 3 R's of keeping the earth clean and healthy. This show and tell activity allows students to see real life examples of trash that could be reduced, reused or recycled. This program includes a short video on steel can recycling.



2nd GRADE - Landfill Space Invaders



We must make many decisions when throwing our trash out. What can and can not be recycled? Students will each receive a piece of trash and we decide if it can be recycled. Students then learn how crowded a landfill can be when recyclable items end up being "space invaders" in the landfill.



3rd GRADE - Recycled Paper Making



Paper items make up the largest percentage of our trash. Students will have the opportunity to learn how paper is made and how it is recycled, followed by a hands on activity of making their own piece of recycled paper.



4th GRADE - Garbage Archeology

Students will explore the history of recycling as they answer archeology questions in stations.



4th GRADE - Show 'Em Sherlock

Students learn about recyclables and then must solve a mystery to find the secret recycling identity of their classmates.





GRADE - Birdseed Mining

Many of the packages we use are made from natural resources and many of them can be recycled. Students have a brief review of renewable and nonrenewable resources and learn the value of taking care of our Earth as they mine for natural resources in a birdseed mountain. Activity includes a lot of math as well as science!



GRADE - Tennis Shoe Recycling

Learn about the process of tennis shoe recycling and what we can make from recycled tennis shoes. This is a great introduction for a class looking to host a special shoe recycling project in their school!



GRADE - Trash Bingo Game

Trash bingo is a fun way to learn about recycling and litter.



GRADE - Rotten Truth

This program helps students to understand that once we throw our trash out, it stays with us for a long time. Students will have the opportunity to identify rotting items as they biodegrade.

Presentations available in Seneca County include:

What Program Topics are Being Offered at Each Grade Level?

KINDERGARTEN (Littering)

- Fishing for Litter Activity
- Fred the Fish
- Story - *The Day the Trash Got Away*



1st GRADE (3 R's)

- Trash Game
- Litter Discussion & Cleanup at School
- Story - *Pumpkin Jack & Brown Bag Pumpkin*
- Show & Tell Box



2nd GRADE (Landfills)

- Story - *Diary of a Worm - Worms Eat Our Garbage*
- Edible Landfills
- Landfill Construction Challenge
- Planet Protectors



3rd

GRADE (Recycling Process)

- The Lifecycle of a Tennis Shoe
- The Aluminum Can Process
- Papermaking
- Story - *The Whartville Wizard* - Litter Lady



4th

GRADE (Environmental Impact on Society)

- Mining our Natural Resources
- Garbage Archeology
- Show 'Em Sherlock
- Papermaking for all 4th Graders at Heritage School Days
- All About Trees



5th

GRADE (Natural Resources)

- Birdseed Mining
- Cookie Mining
- All About Trees
- Water Jeopardy



6th

GRADE

- All About Trees
- Tennis Shoe Recycling
- Mining Coal
- Stream Monitoring
- Water Jeopardy



6. Earth Camp

The District sponsored three “Earth Camps” in June of 2013 in each of the three counties. The half-day camps were hosted at Lakeview Park in Port Clinton, Conner Park in Fremont, and Meadowbrook Park in Bascom. A total of 167 elementary students participated in the camps learning about recycling, litter prevention and natural resources.



In addition to a series of hands-on activity stations, students had the opportunity to engage with experts in the field of recycling and litter prevention. Guest speakers for the

camps included John Logsdon, operations manager for the Port Clinton Landfill, who explained how a landfill is developed and the various layers needed to make a landfill during the Ottawa County Earth Camp. The guest speaker for the Sandusky County Earth Camp was Wood County Park District's Naturalist Program Coordinator, Deb Nofzinger. Ms. Nofzinger talked about wildlife in our area and the importance of litter prevention. Municipal Public Sector Representative, Anne Gray from Rumpke Recycling Inc., talked to the campers about recycling common materials such as aluminum, cardboard and steel, and the finished products they can become.

In 2013, the District conducted the following activities:

Activity	Quantity
School Presentations	525
Classroom Participation	18,220
Contests	2
County Fair Events	3
Special Events	20
Earth Day Camps	3
Earth Day Camp Participation	167

The following table summarizes the education and awareness schedule for 2013 for youth audiences:

Youth Education Programs	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Conduct School Presentations	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓
Youth Groups Scouts Organizations	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Education Website	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Environmental Jeopardy	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Earth Camp			✓	✓								
Work with Teachers to Incorporate State Standards	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Kid's Brochure on Recycling	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Billboard Contest		✓	✓	✓								
Calendar Contest									✓	✓	✓	
Contribute to Quarterly Newsletter		✓			✓			✓			✓	

b. Adult Education

The District conducts a variety of activities designed for adults. The community outreach specialist sends letters each year to individual county civic organizations offering to speak to their groups. Activities include presentations, tours of solid waste facilities and general solid waste awareness activities.

1. Workshops



The District partners with other local organizations to host workshops. In 2013, the District partnered with the Ottawa Soil & Water

Conservation District, the Sandusky Park District, and Catawba Island Township to sponsor a composting workshop. The workshop was open to all residents from Ottawa, Sandusky, and Seneca Counties. Thirty-one residents participated. The following flyer was used to advertise the event:

2013 Compost Workshop

Wednesday, May 22nd

Composting is one form of recycling that can happen right in your backyard. Discover at our Compost Workshop how composting yard waste, food scraps and other organic materials are used to create a nutrient rich soil conditioner for your yard or garden.

Open To:

Registration:

Location:

Sessions:

Cost:

Includes:

Residents within Ottawa, Sandusky and Seneca Counties including all Fostoria and Bellevue residents

Register by Tuesday, May 21st
Contact: Ottawa Co. Soil & Water Conservation District at 419-898-1595

Catawba Island Township Building
4822 E. Cemetery Rd., Port Clinton

10:00 a.m. and 6:30 p.m.

\$5.00 to attend

- Compost Workshop
- Visit Catawba Island Township's compost area
- Walking Tour of Cedar Meadow Nature Preserve
- Snacks and door prizes



REGISTRATION REQUIRED! Space is limited. Contact Ottawa Co. Soil & Water District @ 419-898-1595

This event is sponsored by:






The following table summarizes the education and awareness schedule for 2013 for adult audiences:

Adult Education Programs	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Assist with township brochures	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Buy Recycled Campaign	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Christmas Tree Recycling Promotion												✓
Compost Workshop				✓								
District Newsletter		✓			✓			✓			✓	
District Recycling – Online database	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Home Show				✓								
Maintain Database of Recycled Materials	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Maintain District Website	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mercury Thermometer Exchange				✓					✓			
Needle Disposal Campaign	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ottawa County Fair							✓					
Sandusky County Fair								✓				
Seneca County Fair							✓					
Speaking Engagements	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tour of Recycling Processing Facility				✓					✓			
Tours of CCC Camp	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Township Association Meetings	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

In 2013, the District conducted the following activities:

Activity	Quantity	Participants
Civic group presentations	42	636
Solid Words Quarterly Newsletter	6,800	1,700

The following page contains the core programs offered for civic group presentations:

TOPIC	DESCRIPTION	PRESENTATION
District Overview	This program informs and helps residents to better understand our objectives, responsibilities, available recycling opportunities and programs.	Powerpoint 
"SOLID" BINGO	Performed like the game Bingo, participants learn about recycling opportunities, available programs and much more in a fun way.	Bingo card 
NEW PROGRAM Township Recycling Drop-off Program	The District now operates a uniform recycling drop-off system throughout Ottawa, Sandusky and Seneca Counties. Learn more about the changes and watch a video on what happens to the recyclable materials after they have been collected from your local drop-off site.	Powerpoint / Video 
"Who Wants to Be A Millionaire" Recycling Version	Played as seen on TV, participants will be asked questions related to the District, recycling, landfills and much more.	Interactive Game (Powerpoint) 
Environmental Jeopardy	This interactive program allows participants the opportunity to learn of the many aspects that make up the District, our environment and current environmental topics.	Interactive Game (Powerpoint) 
Recycled Material to Finished Product	This is a visual program that allows participants to see the full circle of recycling. Learn how many different recyclable materials are processed and see the products they become.	Hands On 

c. Publications

The District produces a variety of publications aimed at educating and promoting solid waste programs, events and activities. The following is a summary of the publications produced in 2013:

1. Quarterly Newsletters

The District produces a quarterly newsletter, *Solid Words*. A copy of each 2013 publication is available in Appendix H.

2. Recycling Collection Fliers

During 2013, the District updated and promoted the following fliers on its website:

- 2013 Recycling Collection Events Brochure
- What Happens to the Electronics I recycle?

3. Educational

During 2013, the District created or updated and promoted the following educational fliers on its website:

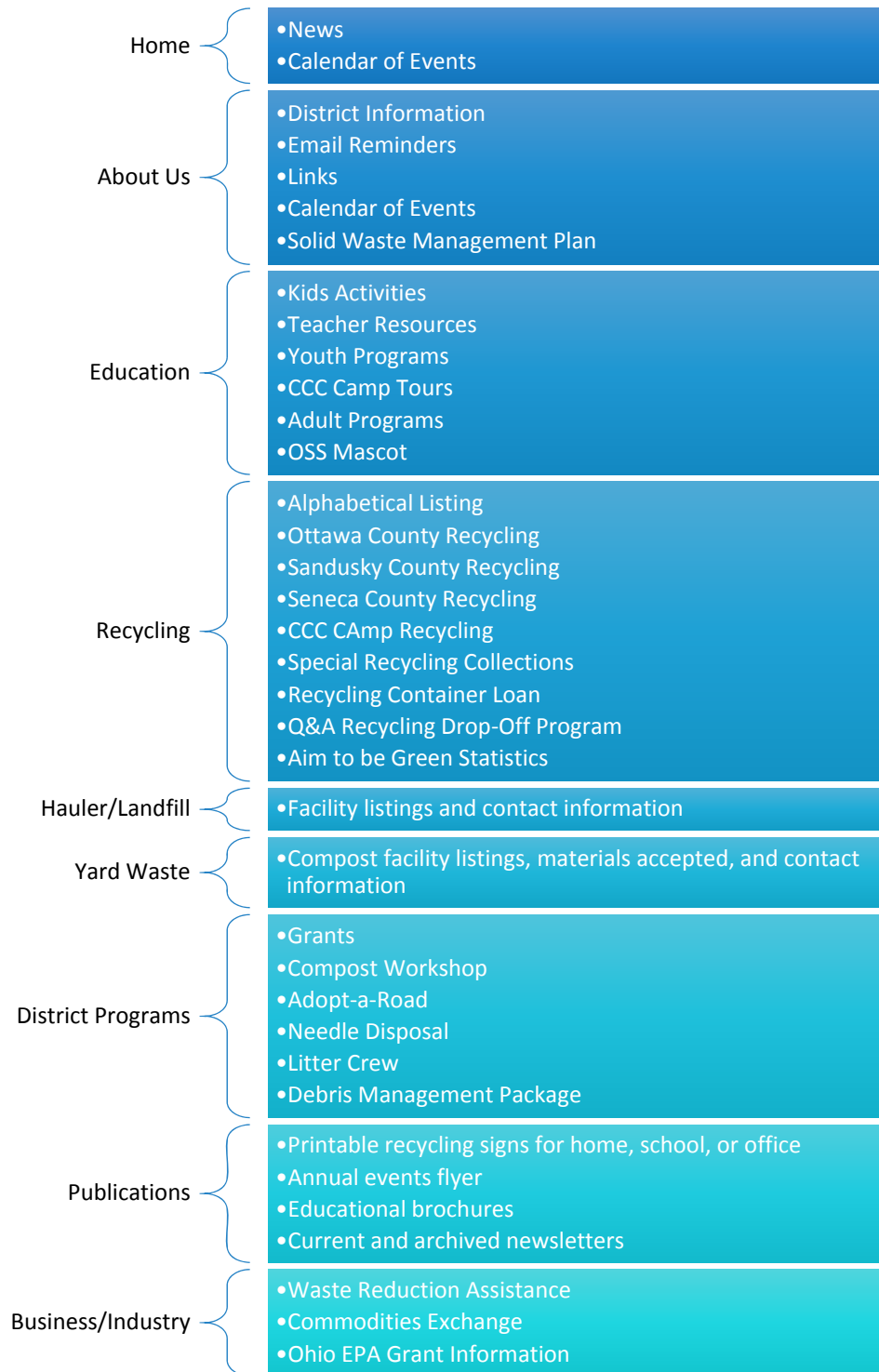
- Education and Resource Guide
- Paint Disposal Brochure
- How to Dispose of Syringes
- “Today I Learned....” student recycling handout
- Compost Guide
- OSS Processing Center Fact Sheet
- OSS Fact Sheet
- Waste Reduction Assistance Program
- Aim to be Green Drop-Off Flyer

d. Website and Social Media

1. Website

The District maintains a comprehensive and user friendly website that is updated frequently. Information contained on the website was designed for the residential, commercial, institutional and industrial sectors. The website is located at www.recycleoss.org and contains a wide spectrum of information about the District and the service providers in the District that manage solid waste.

The following summarizes the information included on the website:



2. Facebook

The District maintains an active presence on Facebook and currently has 177 fans. During 2013, the District made nearly

100 posts about upcoming events, local recycling statistics, District news, or information related to waste diversion.

The following table summarizes the program details:

Education and Awareness Program Summary	
Description	Details
District Budget Number	OSS-13
OEPA Program Number	7959-7962, 7964, 7967, 8001-8007
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2013 Recycled Tonnage	N/A
2013 Program Costs	\$58,181
Program Operator/Contractor	District

Strengths of the program include:

- The District has three very experienced and assertive education specialists.
- Excellent working relationships with civic groups, schools, businesses and other government entities.
- Every classroom District-wide has the ability to sign up for presentations.
- The District staff takes the initiative to conduct activities such as presentation rather than wait for schools to call.
- Education services are highly valued by students and teachers.
- Increase in recycling has been directly tied to the education and awareness program.
- Presentation handouts create a great source of information to promote recycling in the home.

Challenges of the program include:

- The geographic realities of the District and time limitations of the staff limit the ability to cover all areas effectively.

- Competing with the state testing requirements and time commitments of teachers.
- State education standards challenge the ability for the District to conduct presentations.
- Personnel changes in 2013.
- Weather delays and cancellations can sometime make it difficult to complete classroom presentations.

COMMERCIAL/INDUSTRIAL SECTOR EDUCATION AND AWARENESS PROGRAMS

1. Commercial/Industrial Technical Assistance

The District offered technical assistance to commercial and industrial sector businesses each year of the planning period. This assistance included conducting waste assessments, information exchange, answering questions and providing technical assistance regarding solid waste management issues. Most of the recycling completed within the commercial and industrial sector is self-initiated. Commercial and industrial sector businesses typically recycle to reduce the amount of waste they dispose and reduce subsequent costs.

The District's primary engagement with the industrial and commercial sectors involved conducting waste assessments. In 2013, the District conducted two waste assessments for commercial businesses and one waste assessment for an industry. Waste assessments were conducted by the District's consultant. The waste assessment reports prepared for the business following an assessment include an inventory of the business' current solid waste management programs (including recycling initiatives) and recommendations on areas of improvement to existing programs and suggestions on new initiatives for recycling.

In addition, the District has a vast array of publications and a fully functional website that offers commercial and industrial businesses additional resources and information on recycling and solid waste management.

The following table summarizes the program details:

Commercial/Industrial Technical Assistance Program Summary	
Description	Details
District Budget Number	OSS-14
OEPA Program Number	7997-8000
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Varies
2013 Recycled Tonnage	N/A
2013 Program Costs	\$5,741
Program Operator/Contractor	District

Strengths of the program include:

- Creates good working relationship with industries.
- A significant amount of materials are recycled annually.

Challenges of the program include:

- Finding local or regional markets for unique unwanted materials.
- Recommendations in waste assessment reports are not always followed.

LITTER PREVENTION AND COLLECTION PROGRAMS

The District approached litter management in 2013 through a multi-tiered system consisting of general litter collection, river clean-up projects, beach clean-up projects, and through the Adopt-A-Road program.

The following section describes each program.

1. Litter Collection

The District contracts with each county juvenile court to provide litter collection activities throughout the three county area. Each county primarily uses juveniles required to complete community service hours as labor to conduct the litter collection efforts. The District budgeted a total expenditure of \$14,000 per county for the program (1,000 hours at the rate of \$14.00 per hour). The District provides all of the supplies needed by each county including the following: gloves, bags and safety vests. It is important to note that this is a new contract in Seneca County, and both Ottawa and Seneca

County had some changes with personnel responsible for supervising their respective crews.

A grand total of 3,843 community services hours were completed with this program, collecting 920 bags of trash or 9,193 lbs of litter from county and township roadways. Also new in 2013, all crews established separating of recyclable items found along the road, totaling 601 bags of recyclables, or 3,042 lbs of litter that was able to be recycled rather than disposed in the trash.

The following summarizes the actual expenditure by county for 2013:

County	2013 Expenditure
Ottawa Juvenile Court	\$6,951
Sandusky Juvenile Court	\$14,000
Seneca Juvenile Court	\$9,254
District Expense for Supplies	\$4,453
Total Expense	34,658

The following table summarizes the program details:

Litter Collection Program Summary	
Description	Details
District Budget Number	OSS-15
OEPA Program Number	7988
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Varies
2013 Recycled Tonnage	1.5
2013 Disposed Litter Tonnage	4.6
2013 Program Costs	\$34,658
Program Operator/Contractor	District, Juvenile Court System in each county

Strengths of the program include:

- Creates good working relationship with local Juvenile Court Systems.
- Provides valuable service to community.
- Recyclables are now diverted from collected litter.

Challenges of the program include:

- None noted.

2. Beach and River Clean-Ups

The District supported a beach and river clean-up project in 2013. The Sandusky River Clean Sweep project was held Saturday, August 31, 2013.

The following figures were electronic fliers that were made before (left) and after (right) the event.

Saturday, August 31st

2013

Sandusky River Clean Sweep

Volunteers Are Needed!

LOCATION: Meet at Shelter 6, Hedges-Boyer Park, Tiffin

REGISTRATION: Contact: Chris Monsour at 419-618-1477 or by email at chrismonsour27@gmail.com

SCHEDULE of EVENTS

Registration
8:00 am - 8:45 am

River Clean-up
9:00 am - 12:00 pm

Picnic/Prizes, Education/Activities
12:15 pm - 2:00 pm

Pre-Register by August 23rd
Contact: Chris Monsour or go to [facebook.com/sanduskyrivercleansweep](https://www.facebook.com/sanduskyrivercleansweep)

FREE T-SHIRT to first 100 people!

2013

Sandusky River Clean Sweep

VOLUNTEERS
150

of TIRES
54

TRASH WEIGHT
11,000 lbs.

METAL WEIGHT
1,200 lbs.

Thank you to all sponsors and volunteers for helping to keep the Sandusky River beautiful!

The Port Clinton City Beach Cleanup was held Saturday, April 20, 2013. The following electronic flier was used to advertise the event:

Port Clinton
City Beach Cleanup
Saturday, April 20th, 2013

Sponsored by:
OSS Solid Waste District and
the Port Clinton Recreation Department

We will meet at the Lakeview Park Shelter House at 9:00 a.m. Bring shovels, pruners, rakes - any outdoor garden equipment. Gloves will be available, but if you have your own bring them!

For more information about the cleanup or to volunteer call Diane Ball at the District office at 419-734-6783. www.recycleoss.org Or call Tracy Colston at the Port Clinton City Hall offices at 419-734-5522 ext. 6

E-fliers were posted on the District’s Facebook page and website. The following table presents details about each clean-up:

County	Area	Date	Statistics
Ottawa	Port Clinton, City Peach	April 21, 2013	2.86 tons 38 volunteers
Seneca/ Sandusky	Sandusky River	August 2013	5.5 tons trash 0.6 tons recyclables 54 tires 150 volunteers

The District provided supplies such as safety vests, garbage bags, and gloves for volunteers.

The following table summarizes the program details:

Beach and River Clean-Ups Program Summary	
Description	Details
District Budget Number	OSS-16
OEPA Program Number	7989
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Varies
2013 Recycled Tonnage	0.6

Beach and River Clean-Ups Program Summary	
Description	Details
2013 Disposed Litter Tonnage	8.36
2013 Program Costs	\$200
Program Operator/Contractor	District, Port Clinton Recreation Department

Strengths of the program include:

- Engages the community.
- Provides valuable service to community.

Challenges of the program include:

- None noted.

3. Adopt-A-Road

The Adopt-A-Road program is a public service program in which civic organizations, youth groups, businesses and residential families have the opportunity to adopt a designated section of roadway. The volunteering adopting group is obligated to remove debris and litter along the roadside. Through this program, adopting groups obtain the satisfaction from contributing to a cleaner roadway and community.

In 2013, 302 participants volunteered 415 man hours, collecting 2,283 lbs of litter from adopted roadways. The District was in its second phase of removing old and outdated Adopt-A-Road signs to comply with recommended federal and state safety guidelines. The District made new signs uniform throughout the three counties. This process was accomplished in three phases. The typical cost of the program is about \$500. The increased cost in 2013 was due to the purchase of 38 new signs.

The following are the adopting group and District responsibilities:

Adopting Group's Responsibilities:

- Minimum 2 year agreement;
- School groups must clean designated roadway a minimum of 2 times per year;
- Non-school groups must clean designated roadway a minimum of 4 times per year;

- Required to follow safety rules and guidelines; and
- Required to submit information after each clean-up.

District Responsibilities:

- Conduct orientation and safety instruction for the adopting group upon request;
- Provide orange Class II safety vests and disposable gloves;
- Provide orange Adopt-A-Road bags;
- Provide orange “workers ahead” safety signs and orange magnetic strobe light;
- Upon request, collect and properly dispose of litter/debris; and
- Issue a certificate of recognition when adopting group renews contract.

The following table presents the accomplishments of the Adopt-a-Road program in 2013:

Total Participants	Volunteer Hours	Pounds Collected
302	415	2,283

The following table summarizes the program details:

Adopt-a-Road Program Summary	
Description	Details
District Budget Number	OSS-17
OEPA Program Number	7990-7991
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Varies
2013 Tons of Litter Collected	1.32
2013 Program Costs	\$5,678
Program Operator/Contractor	District

Strengths of the program include:

- Creates good working relationships with local governmental agencies and municipalities.
- Highly visible to the public.
- Creates a cleaner environment for District communities.
- Reduces litter from county and township roadsides.

- Promotes community involvement.
- Program provides volunteers flexibility in scheduling.

Challenges of the program include:

- Inconsistent communication from adopting groups regarding pick-ups.
- Education oriented adopting groups have limited time to conduct clean-ups.
- Education oriented adopting group contacts change frequently.
- Contractual requirements of program may prohibit some potential adopting groups from participating.
- Limited District staff time to manage program.
- Township and county garages are hesitant to help the District pick up bags on their roads.

OTHER PROGRAMS

The District operates a variety of other programs aimed to increase recycling efforts in Ottawa, Sandusky, and Seneca counties.

The following section describes these programs:

1. Container Loan

The Container Loan program is a public service program in which community groups, government offices and non-profit organizations have the opportunity to borrow portable recycling containers. Two container varieties are available on loan to collect aluminum cans and plastic bottles during community events, festivals and functions in Ottawa, Sandusky and Seneca counties. The first container is a light-weight wire-framed container with a clear bag to easily recognize recyclable materials accepted. The second container is in the shape of a large pop bottle also clearly identifying the material being accepted.

The following figures present the containers available through the District's loan program:



In 2013, 19 participants borrowed 133 wire frame containers and 6 pop bottle containers. The District maintains 15 wire frame containers and 2 pop bottles available for loan in each county, which is a total of 45 wire frame containers and 6 pop bottle containers District-wide.

The following are the Container Loan participant and District responsibilities:

Container Loan Participant:

- Must register to borrow containers. Containers are provided upon “first-come, first-serve” basis.
- Participant can borrow up to 15 wire frame containers and 2 pop bottle containers.
- Required to sort (if needed) and recycle materials collected from the event.

District:

- Provide containers, lids with labels and clear bags.
- Will deliver and pick-up containers if the participant is unable.

The following table summarizes the program details:

Container Loan Program Summary	
Description	Details
District Budget Number	OSS-18
OEPA Program Number	N/A
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Varies
2013 Recycled Tonnage	N/A
2013 Program Costs	\$228.08
Program Operator/Contractor	District

Strengths of the program include:

- Provides recycling containers for events.
- Visible to the public.
- Increasing use by groups throughout the District.

Challenges of the program include:

- Participants do not return containers on time.
- Containers are used for trash.

2. Health Department Financial Support

The District continued to provide financial support for the Health Departments located in Sandusky and Seneca Counties for the enforcement of solid waste rules, orders, permits, terms and conditions of permits and licenses for solid waste facilities located within the District. The amount of funding may be adjusted depending upon the activities to be completed and the amount of District funds that are available.

The following table summarizes the 2013 expenditures by health department:

Health Department	2013 Expenditure
Sandusky County	\$20,000
Seneca County	\$37,162

The Ottawa County Health Department is not an Ohio EPA approved health department; therefore, the District does not provide funding to this county for solid waste enforcement activities.

The District does have a contract with Ottawa County to address litter and garbage nuisance complaints. The District spends approximately \$13,000 per year. Funding for this contract comes from District contract fee revenue (not disposal fee revenue).

The Ottawa County Health Department had a vacancy for the Director of Environmental Health position for most of 2013. Due to the vacancy, the Ottawa County Health Department did not have thorough statistics for 2013; the situation began improving after the Director was replaced.

The Sandusky County Health Department worked during 2013 to cleanup 315 tons of tires from the Ernst property in Scott Township. They also investigated 200 nuisance complaints during the year.

In 2013, the Seneca County General Health District investigated 205 solid waste nuisance complaints and 14 reports of scavenging. The Health District also performed routine inspections of active and closed landfills and registered compost facilities.

The following table summarizes the program details:

Health Department Financial Support Program Summary	
Description	Details
District Budget Number	OSS-19
OEPA Program Number	7987
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Varies
2013 Recycled Tonnage	N/A
2013 Program Costs	\$57,162
Program Operator/Contractor	District, Sandusky County General Health District, Seneca County Health Department

Strengths of the program include:

- Creates good working relationship with the local health departments.

Challenges of the program include:

- None noted.

3. Needle Disposal Campaign

The District designed an education program for residents regarding the danger of improper disposal of needles used by diabetics and others who use needles for medical reasons.

Employees of local waste hauling facilities face the danger of getting “stuck” by improperly disposed needles every day. If a waste hauler is stuck by a needle, they must immediately stop driving their collection route and head to the nearest medical facility. Once at the facility, the hauler must submit to a number of tests including but not limited to:

- Tetanus
- Hepatitis
- HIV

The affected individual must then be monitored for a period of time to be sure that they did not contract any diseases or infections from the incident.

Diabetics are just part of the big picture as syringes are used more and more at home for medical reasons. The District has a campaign targeting safe disposal of needles and the health threat to garbage collectors. Residents are instructed on the following procedures:

- If a sharps container is not available, use a wide mouth heavy plastic container with a tight lid (detergent or fabric softener container).
- When the container is two-thirds to three-fourths full, tightly close the container and seal with masking or heavy adhesive tape.
- Discard in regular trash.
- If the container is stored in the home, be sure to place it in an area that is not accessible to children or visitors.
- Contact your hauler to see if they have any specific guidelines for the disposal of syringes.

The following guide was developed by the District:

PROPER NEEDLE DISPOSAL

Are you disposing of your syringes properly?

Needle Disposal Guidelines...

- Never place an exposed needle in your trash bag where a garbage person may get stuck.
- Use a wide mouth heavy plastic container with a tight lid (detergent or fabric softener container).
- When the container is two-thirds full, tightly close the container and seal with masking or heavy adhesive tape.
- Label the container **"DO NOT RECYCLE"**.
- Discard in regular trash. DO NOT throw in recycling bin.
- **NOTE:** If you use the container in the home be sure to place it in an area that is not accessible to children or visitors.
- Contact your hauler to see if they have any specific guidelines for the disposal of syringes.

For more information talk to your local pharmacist or contact the OSS Solid Waste District's main office at 419-334-7222 or toll free at 1-888-850-7224.

The Ottawa, Sandusky, Seneca Solid Waste District wants to educate residents about the danger of improper needle disposal of needles used by diabetics and others who use needles for medical reasons.

The following table summarizes the program details:

Needle Disposal Campaign Program Summary	
Description	Details
District Budget Number	OSS-20
OEPA Program Number	7992-7993
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2013 Program Costs	\$0
Program Operator/Contractor	District

Strengths of the program include:

- Educates the public on the proper management of used needles.
- Creates good working relationships with local pharmacies and hospitals.
- Cooperation with pharmacies and hospitals to distribute education information.
- Local haulers are very appreciative of the program as it directly results in their worker safety.
- Residents can safely dispose of needles in their trash.

Challenges of the program include:

- Pharmacies still sell sharps containers which are not accepted by local haulers.
- Not all doctors' offices have an area to display information.
- Limited outlets for residents to dispose of needles in sharps containers.

4. Medication Take-Back

The District established permanent drop-off sites in local law enforcement agencies for residents to properly dispose of outdated, unwanted and unused prescription medications.

In Ottawa County, locations include:

- Danbury Township Police Department
- Village of Genoa Police Department
- Village of Oak Harbor Police Department
- City of Port Clinton Police Department

The Ottawa County Sheriff's Department services the program in Ottawa County and collected 902.8 lbs of medication in 2013.

In Sandusky County, locations include:

- City of Bellevue Police Department
- City of Clyde Police Department

- City of Fremont Police Department,
- Village of Woodville Police Department.

The Sandusky County Health Department Prevention Partnership Program coordinates the efforts of the Medication Take Back sites in Sandusky County. Statistics were not available from Sandusky County sites.

In Seneca County, the Seneca County Sheriff’s Office hosts the drop-off location. The drop-off collected 100 lbs of medication in 2013.

The following table summarizes the program details:

Medication Take-Back Program Summary	
Description	Details
District Budget Number	OSS-21
OEPA Program Number	N/A
Entity Responsible for Maintaining Program	District, Police Departments, County Sheriff’s office
Service Area for Program	District
Pounds of Medication Safely Disposed	At least 1,003
2013 Program Costs	\$402 (Ottawa County expense)
Program Operator/Contractor	District

Strengths of the program include:

- Provides a safe, convenient, and responsible means of disposing of unwanted prescription drugs.
- Educates general public about the potential for abuse of medications.

Challenges of the program include:

- None noted.

5. Disaster Debris Management

The District began the process of developing a comprehensive disaster debris management plan in 2006 in response to several storm-related events in prior years that created significant amounts of disaster debris.

The end result of this planning effort is the District and all three counties have had a comprehensive disaster debris management manual that articulates the procedures on how to manage disaster debris. The manual is available in all three counties and the District office. Training on the materials of the manual has been conducted.

In July of 2013, the District experienced tornadic events that resulted in damage in Sandusky and Seneca counties. In response to the storms, the District provided \$66,435 in assistance to affected townships, cities and villages. The funding was used for chipping and grinding of yard waste materials collected during the storm events.

Based on the severe weather events of July 2013, the District began reviewing the manual and creating a more comprehensive annex to each of the EMA's overall disaster plans. This is a requirement for any type of Ohio EMA or FEMA reimbursement for any type of disaster event with debris. The plans will be managed and updated on an annual basis.

The following figure presents a series of photos documenting the wind storm damage in the District that occurred during 2013:



In addition, the District has a Disaster Debris Funding program in place since the year 2000.

The following describes the program criteria:

Funding Available

- There will be \$100,000 available in the District’s budget for the Emergency Management Agencies in the event of a major storm. This funding is not guaranteed and will be subject to budgetary constraints of the District at the time of the emergency.

Activation of Funding

- The funding is only available after an Emergency Declaration has been made by the Board of Commissioners of the county(s) where the disaster took place. The Board of the District is not required to call a special session of the Board to activate the funding.

Allowable Costs

- The District will only reimburse for grinding of limbs and other brush on public property. This includes rental of a chipper and the costs of hauling the ground material to a compost facility. This funding cannot be used for any work done on private property.

Disbursement of Funds

- The County Commissioners in consultation with the Emergency Management Agency will decide the most appropriate use for the \$100,000 that is made available. The District requires that receipts for services performed are included with an invoice to the District.

The following table summarizes the program details:

Disaster Debris Management Program Summary	
Description	Details
District Budget Number	OSS-22
OEPA Program Number	7973, 7994-7995
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Wood waste, yard waste
2013 Recycled Tonnage	N/A
2013 Program Costs	\$66,435
Program Operator/Contractor	District

Strengths of the program include:

- Creates good working relationships with local county government and EMA offices.

- Provides much needed funding to local governments.
- Prepares local governments for dealing with disaster debris events.
- Provides sample contracts, bid documents and other documents needed to apply for FEMA reimbursements.

Challenges of the program include:

- Staying on top of ever changing FEMA requirements.
- Predicting areas and amounts of debris.
- Coordinating writing of the annex with the three County EMA Directors.
- Providing equal aid to all of the affected communities when there is a limited amount of funding.

6. Strategic Planning

The District continues a yearly process of strategic planning regarding District programs, initiatives and infrastructure. The District begins the process by performing a SWOT (Strengths, Weaknesses, Opportunities and Threats) analysis. During the SWOT analysis, the following areas and questions are explored:

- Strengths
 - What are the strengths of the programs?
 - What are we doing well?
 - What do our residents like about our programs?
- Weaknesses
 - What areas of the program are weak and how can we improve on them?
- Opportunities
 - What are the opportunities we have to improve the program?
 - Could we partner with another agency?
 - Is a new market available?
 - Is there a new way to conduct a program?
- Threats
 - What are potential threats of a program?

- What kinds of issues could jeopardize the program in the future (i.e., reduced funding, changing markets, changes in rules)?

The entire District staff is involved in the SWOT analysis process to discuss where fine tuning is necessary to improve the services offered to residents. In 2013, the SWOT analysis was performed for each of the following programs, initiatives, and infrastructure:

- HHW collection
- Lead-acid battery collection
- Electronics collection
- Appliance collection
- Safety programs
- Township, village, and county programs
- District newsletters
- District website
- CCC Camp tours
- County fairs
- Compost work shop
- Buy recycled
- Needle disposal campaign
- Medication take-back program
- Litter collection
- Commodity exchange
- Waste assessments
- Competitive funding
- Disaster debris management
- Education and awareness
- District infrastructure (building, equipment, information technology)

The results of most of the SWOT analysis will be incorporated into this *Plan Update*, and the process has already resulted in modifications to some programs. For example, residents frequently ask about what happens to the materials we collect, so the District produced a pamphlet that explains how the materials from the HHW electronics, and tire collection programs are processed. The pamphlets were distributed to residents at collection events after they dropped off their materials. Additionally, the District started distributing flyers to residents at collection events outlining upcoming collections.

The strategic planning sessions have generated new partners to work with, lead to a change in a recycling collection location, and

resulted in the elimination of obsolete programs. The strategic planning sessions have been a very positive and beneficial exercise for the District. The planning sessions helped focus the District on starting the current Aim to Be Green Drop-Off program after the weaknesses of the prior part-time drop-off program were reviewed.

As a part of the strategic planning process, the following agencies were identified as cooperative partners in District programs. They include the following:

Engineer's office	Park District's	Tiffin Parks Department	Port Clinton Parks Department	Fairgrounds (OSS)
Art Council	Colleges and Universities	Schools	Townships	Cities
Villages	Waste Haulers	Landfills	Police Depts.	Health Depts.
Sheriff's Depts.	CARSA	Water Treatment Plants	Economic Development Offices	Chamber Offices
EMA's	Juvenile Detention Centers	Inmate Work Programs	Juvenile Court	Hospitals & Pharmacies
Farm Service Agencies	Earth Literacy Center	ODNR	Ohio EPA	Media Outlets
Scouts	4-H	Campfire	Watershed Coalition	Scenic Rivers Program
League of Women Voters	Service Organizations	Goodwill	Solid Waste Districts	OALPRP
SWANA	Earth 911	United Way	Sandco/ Opportunity Center	Business/ Industry
Highway Patrol	Fire Department	Libraries	Lead Acid Battery Retailers	

The following table summarizes the program details:

Strategic Planning Program Summary	
Description	Details
District Budget Number	OSS-23
OEPA Program Number	7996
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2013 Recycled Tonnage	N/A
2013 Program Costs	\$0
Program Operator/Contractor	District

Strengths of the program include:

- Gives staff a chance to have input on District programs.
- Prepares District for dealing with current and future initiatives.
- Creates a continual improvement process for all programs and activities.

Challenges of the program include:

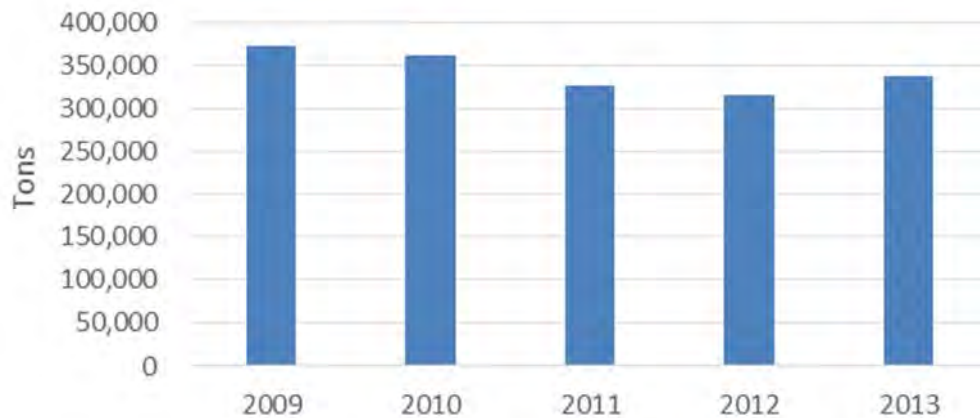
- None noted.

H. Total Waste Generation: Historical Trends Plus Waste Reduction

Table IV-7 presents the District's total waste generation patterns over a five year period spanning from 2009 to 2013. Total waste generation is calculated by summing the total waste landfilled (either by direct disposal or transfer), total tons recycled, and total tons composted. An examination of the District's total waste generation patterns over the five-year period reveals that in 2009, a high of 372,628 tons was generated and in 2012, a low of 314,995 tons was generated. Waste generation modestly increased since 2012.

The following figure presents the District's historical total waste generation.

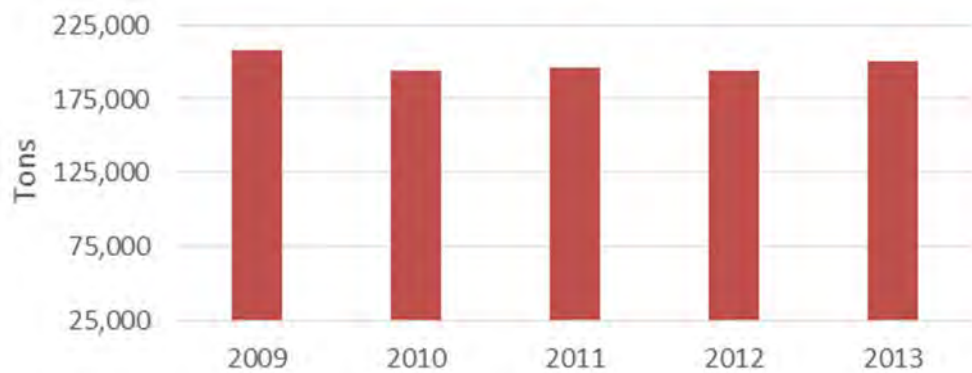
District Historical Waste Generation (2009 – 2013)



Landfilled waste tonnage reached its highest point in 2009 and lowest in 2010. Tonnage decreased from 207,640 tons in 2009 to 194,638 tons in 2010. The total tonnage landfilled in 2012 (194,777 tons) was nearly equal to the tonnage reported in 2010.

The following figure presents the historic landfilling totals:

District Historical Landfilling (2009 – 2013)



Yard waste composting decreased significantly from the five-year period high in 2009 (32,866 tons) to the period low in 2012 (20,724 tons). Some of the facilities that contributed to the decreasing totals included:

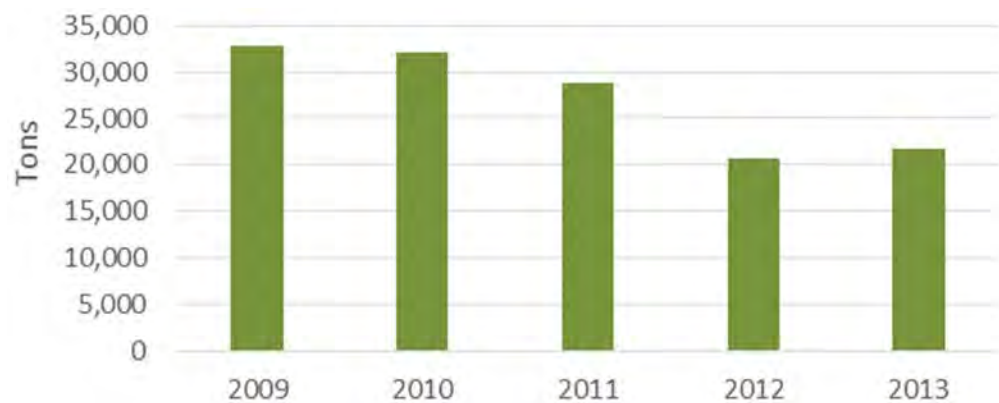
- The City of Fostoria Compost Facility in Seneca County reported a total of 8,162 tons in 2009 and 7,659 tons in 2010. In 2010, the Ohio EPA Compost Report noted that there were unresolved issues with information reported by the City of Fostoria Compost Facility. The facility reported no tonnage for 2011 and only reported 2,636 tons the following year in 2012.

- The Fremont Compost Facility in Sandusky reported 2,817 tons in 2009, but only 40 tons in 2010. The facility was reported as closed in 2011.
- The Village of Clyde reported each year from 2009 to 2013, but was omitted from the 2012 Ohio EPA Compost Report.
- Lakeside Association in Ottawa County reported a total of 1,382 tons of yard waste in 2009 but only 583 tons in 2012 and 611 tons in 2013.

Annual yard waste totals can vary significantly based on factors such as weather-related events.

The following graph depicts the historical yard waste totals:

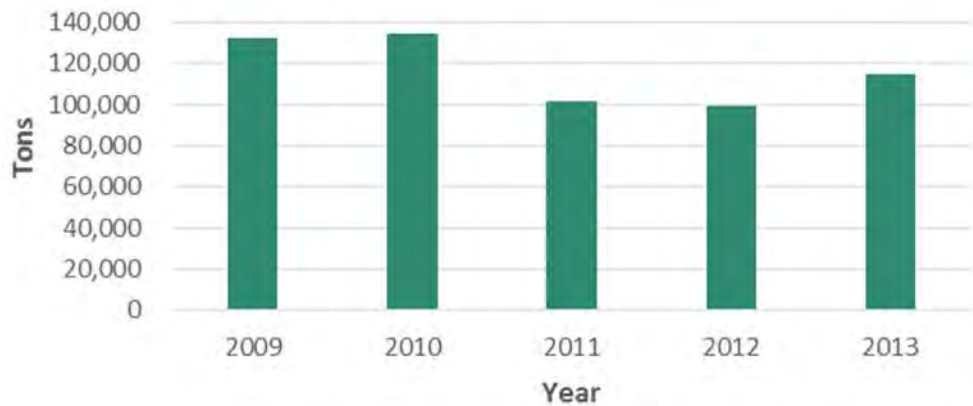
District Historical Yard Waste Composting (2009 – 2013)



Recycling was at a five-year high in 2010 (134,524 tons), and a five-year low in 2012 (99,494 tons). Recycling decreased approximately 25% between 2010 and 2012. The decrease was caused by industrial sector recycling. A gypsum board manufacturing plant located within the District reported in 2011 that a significant portion of secondary materials previously sourced from within the District began being imported from out-of-state, causing the amount of recycling the District could credit to decrease dramatically.

The following figure presents the historical recycling totals:

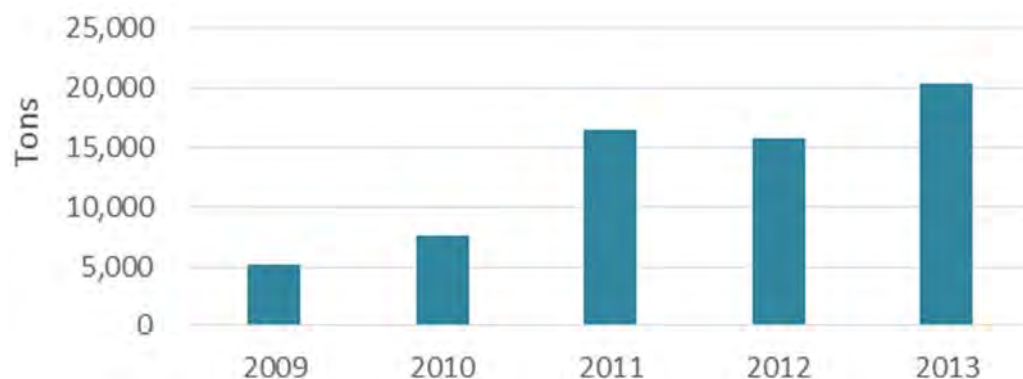
District Historical Recycling (2009 – 2013)



Despite the decrease in recycling totals over the five-year period, the District remains optimistic that trends are headed in a positive direction. Residential/commercial sector recycling increased dramatically from 2009 (5,137 tons) to 2013 (20,385 tons). Recycling tonnage increased nearly 300% from 2009 to 2013. The increase is primarily due to the availability of curbside recycling programs and the roll-out of the District’s improved and expanded drop-off recycling program.

The following figure presents the historical residential/commercial sector recycling totals:

District Historical Residential/Commercial Recycling (2009 – 2013)



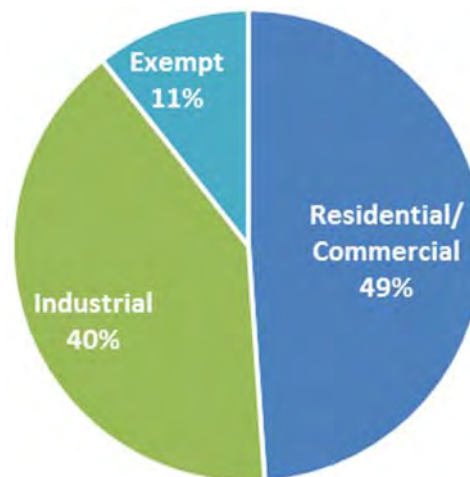
I. Reconciliation of Waste Generation

Table IV-8, “Adjusted Reference Year Total Waste Generation for the District,” presents adjusted reference year total waste generation for the District, which is based on actual reported disposal and recycling tonnage. Total generation was 338,155 tons. This includes recycling, waste reduction, composting, and waste disposal from all sectors. The residential

and commercial sector generated 165,332 tons or 5.50 pounds per person per day (PPD). The industrial sector generated 136,916 tons of materials or approximately 4.55 PPD. Exempt waste totaled 35,906 tons or 1.19 PPD. The residential/commercial sector generated more than half (49%) of the total tonnage. The industrial sector represented 40% of the total waste generated and exempt waste represented the remaining 11%.

The following figure presents the percentage of total tons generated by sector.

2013 Reference Year Waste Generation by Sector



The District considers using the actual reported disposal, composting, and recycling tonnage (Table IV-8) as a more accurate method of projecting waste generation throughout the planning period rather than using generation projections based on historical and District averages (Table IV-4).

The per capita generation rate for the residential/commercial sector is approximately 0.22 pounds lower than the projected per capita generation rate based on the District's historical average of 5.72 pounds. The per capita generation rate for the industrial sector is approximately 1.25 pounds lower than the projected per capita generation rate based on survey responses and average generation rates based on SIC codes. Actual tonnage recorded at transfer stations, landfills, material recovery facilities, and compost facilities supports using generation rates in Table IV-8 versus Table IV-4. Table IV-8 more accurately reflects the generation conditions within Ottawa, Seneca, and Sandusky counties.

The District recognizes the potential for mislabeling waste that is recorded at material management facilities after it is weighed. However, the total results are likely to be more accurate using the reported disposal and

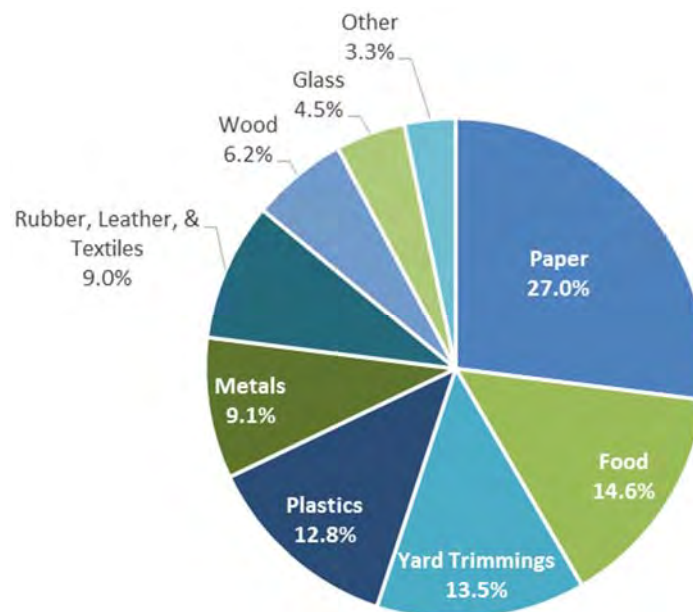
diversion data than averages. Therefore, the District will not use the totals calculated in Table IV-4 for future projections in this *Plan Update*.

J. Waste Composition

The District estimated the residential/commercial waste stream composition in Table IV-9, “Estimated Residential/Commercial Waste Stream Composition for the District for the Reference Year,” using national averages from the U.S. EPA for 2013. The largest component of the residential/commercial waste stream is projected to be paper and paperboard at 27.0% (44,640 tons), followed by food waste at 14.6% (24,139 tons), and yard trimmings at 13.5% (22,320 tons).

The following figure presents the estimated overall waste composition generated by the residential/commercial sector in the reference year.

2013 Residential/Commercial Waste Stream Composition



Using the District’s actual 2013 recycling totals from Table IV-5 and U.S. EPA’s estimates on MSW generation by material before recycling for 2013, an analysis was performed to identify which materials have the highest recovery rates.

The following adjustments were made to the recycling totals presented in Table IV-5 in order to align the data with the categories presented in EPA’s report:

- The District’s totals for HHW, E-waste, batteries, and used oil were combined into the “Other” category.

- The District's totals for ferrous metals, non-ferrous metals, and appliances were combined into the "Metals" category.
- The District's totals for cloth, fabrics, and tires were combined into the "Rubber, Leather, & Textiles" category.
- The District's totals for cardboard and paper were combined into the "Paper" category.
- Commingled tonnage was distributed amongst the paper (50.6%), plastics (23.9%), metals (17.0%), and glass (8.4%) categories. The percentages used to break the commingled tonnage into individual categories was based on values presented in EPA's report.

The following table presents the recovery percentage of the total volume generated for each material reported for the residential/commercial sector:

Material	Actual Quantity Recycled	Estimated Quantity Generated	Recovery as Percent of Generation	Estimated Quantity Disposed
Paper	6,606.2	44,640	15%	38,033.5
Food	885.1	24,139	4%	23,253.4
Yard Trimmings	21,757.6	22,320	97%	562.2
Plastic	1,616.2	21,163	8%	19,546.3
Metals	6,419.4	15,045	43%	8,625.8
Rubber, Leather, & Textiles	1,637.8	14,880	11%	13,242.1
Wood	2,417.0	10,251	24%	7,833.6
Glass	516.6	7,440	7%	6,923.3
Other (HHW, E-Waste, Batteries, Used Oil)	287.1	5,456	5%	5,168.9

Recovery percentages are estimates; actual recovery percentages may differ from the percentages presented.

Using the recovery percentages calculated in the above table, the materials with the highest recovery rates include the following:

- Yard trimmings (97%)
- Metals (43%)
- Wood (24%)

Materials with the lowest recovery rates include the following:

- Plastic (8%)
- Glass (7%)
- Other (5%)
- Food (4%)

The materials that had the greatest quantity of tons disposed include the following:

- Paper (38,033.5 tons)
- Food (23,253.4 tons)
- Plastic (19,546.3 tons)
- Rubber, leather, and textiles (13,242.1 tons)

The materials that had the least quantity of tons disposed include the following:

- Glass (6,923.3 tons)
- Other (5,168.9 tons)
- Yard trimmings (562.2 tons)

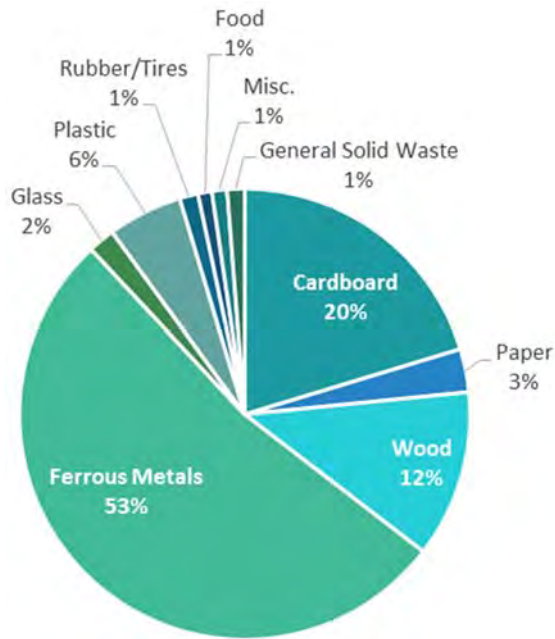
Similar to the residential/commercial waste stream, the purpose for reviewing the industrial waste stream is to determine what types of materials comprise the largest volumes and the programs that are in-place to manage these materials.

Industrial waste composition was estimated based on the amount of industrial waste that was landfilled and recycled (Table IV-10). Information for recycling was obtained from industrial facilities responding to the survey. Non-hazardous waste, concrete, ash and sludge were eliminated from the acceptable waste materials for recycling calculations only. All recycled materials are provided as actual totals. The remainder of material disposed in the landfill is categorized as general solid waste.

The largest component of the District's industrial solid waste stream was ferrous metals (72,033 tons). Cardboard and wood were the next largest components of the industrial waste stream, representing 27,809 tons and 16,454 tons, respectively.

The following figure depicts the industrial waste composition for the reference year.

2013 Industrial Waste Composition by Percent and Tonnage



**Table IV-1
Reference Year Population and Residential/Commercial Generation**

County/Community Name	2013 Population		2013 Generation Rate (lbs/person/day)	2013 District Residential/Commercial Generation (Tons)
	Before Adjustment	After Adjustment		
Ottawa County	41,153	41,153		
Sandusky County	60,098	101,251		
Seneca County	55,914	157,165		
City of Bellevue (Erie County portion) <i>Majority residing in Sandusky County</i>	2	157,167		
City of Bellevue (Huron County portion) <i>Majority residing in Sandusky County</i>	3,617	160,784	5.72	171,904
City of Fostoria (Wood County portion) <i>Majority residing in Seneca County</i>	1,034	161,818		
City of Fostoria (Hancock County portion) <i>Majority residing in Seneca County</i>	2,925	164,743		
Total		164,743		

Source(s) of information:

Population - Ohio Development Services Agency Office of Research, "2013 Population Estimates by County, City, Village, and Township," May 2014.
 Generation Rate - 2013 residential/commercial generation rate was calculated using the District's average absolute change in residential/commercial sector tonnage 2009 - 2012 as reported on Ohio EPA's ADR Review Forms.

Example calculations:

$$\text{Total Res/Com Generation} = 2012 \text{ Total generation} \times (1 + \text{absolute average percent change in total generation from 2009-12})$$

$$171,904 \text{ tons} = 163,040 \text{ tons} \times (1.0544)$$

**Table IV-2
Industrial Waste Generation Survey Respondents vs. Unreported**

Standard Industrial Classification (SIC) Code	Survey Respondents			Amounts Based Upon Secondary Data (Unreported)			Total Industrial Waste Generated	
	# of Industries	# of Employees	Tons of Waste Generated	Generation Rate (T/employee)	# of Industries	# of Employees		Generation Rate (T/employee)
20	4	668	1,944	2.91	22	1,009	13.92	14,045
22	0	0	0	0.00	1	1	9.99	10
23	1	14	10	0.75	6	33	2.80	92
24	0	0	0	0.00	14	172	51.62	8,879
25	1	270	6,822	25.27	1	252	1.79	451
26	2	71	2,425	34.15	5	189	17.50	3,308
27	4	51	125	2.46	49	490	6.70	3,283
28	1	40	25	0.61	17	460	12.43	5,718
29	0	0	0	0.00	6	63	7.33	462
30	4	527	5,298	10.05	15	1,524	7.29	11,110
31	0	0	0	0.00	0	0	3.41	0
32	5	792	17,165	21.67	19	365	10.55	3,851
33	2	82	117	1.43	5	77	36.93	2,844
34	5	563	3,515	6.24	44	1,210	11.16	13,504
35	10	448	4,715	10.53	62	1,498	5.72	8,569
36	3	3,702	52,755	14.25	8	179	2.98	533
37	4	398	1,606	4.04	8	109	3.21	350
38	0	0	117	0.00	8	411	1.74	715
39	1	315	137	0.43	23	23	4.62	106
Total	47	7,941	96,778	12.19	313	8,065	N/A	77,829
								174,607

Source(s) of information:

2013 District industrial survey responses
Total number of industries and employees from ReferenceUSA
Appendix JJ-2 was used to calculate unreported data.

Example calculations (SIC 20):

Survey Respondents:

$$\text{Annual Per Capita Generation Rate} = \frac{\text{Waste Generated}}{\text{\# of Employees}}$$

$$2.91 \text{ Tons Per Employee} = \frac{1,944 \text{ tons}}{668 \text{ employees}}$$

Non-Respondents:

$$\text{Generation Rate} \times \text{Number of Employees (Unreported)} = \text{Tons of Waste Generation}$$

$$13.92 \times 1,009 = 14,045 \text{ Tons}$$

**Table IV-3
Exempt Waste Generated in the District
and Disposed in Publicly Available Landfills**

Type of Waste Stream	Generation Rate (lb/person/day)	Total Exempt Waste Generation (TPY)
Construction/Demolition	1.19	35,906
Total	1.19	35,906

Source(s) of information:

2013 Landfill and Transfer Station Operation Reports; Table III-1

$$\text{Generation Rate (lbs/person/day)} = \frac{\text{Total Exempt Waste (tons/yr)} \times 2,000 \text{ (lb/ton)}}{\text{Population} \times 365 \text{ days/yr}}$$

Example calculation:

$$1.19 = \frac{35,906 \times 2,000}{164,743 \times 365}$$

**Table IV-4
Reference Year Total Waste Generation for the District**

Type of Waste	Generation Rate (lbs/person/day)	Tons/Year
Residential/Commercial	5.72	171,904
Industrial	5.81	174,607
Exempt	1.19	35,906
Total Waste Generation	12.72	382,417

Source(s) of information:

Residential/Commercial- Table IV-1

Exempt -Table IV-3

Industrial- Tons/yr-Table IV-2

Industrial Generation Rate calculated using the following equation:

$$\text{Generation Rate (lbs/person/day)} = \frac{\text{Total Industrial Waste (tons/yr)} \times 2,000 \text{ (lb/ton)}}{\text{Population} \times 365 \text{ days/yr}}$$

Example calculation:

$$5.81 = \frac{174,607 \times 2,000}{164,743 \times 365}$$

**Table IV-5
Reference Year Residential/Commercial Waste Reduction in the District**

Type of Waste Source Reduced	TPY	Type of Waste Recycled	TPY	Incineration, Composting, Resource Recovery		
				Total Waste Received	Residual Landfilled	Net Waste Reduced
None	0	Ferrous	4,796	Incineration*	Ash	Net Incineration*
		Cardboard	3,795	0.42	0.13	0.29
		Commingled	3,472	Composting	Residuals	Net Compost
		Wood	2,417	21,758	0	21,758
		Scrap tires	1,637	Resource Recovery	Ash	Net Resource
		Paper	1,055	0	0	0
		Non-Ferrous	1,008			
		Food	885			
		Plastic	784			
		Glass	224			
		HHW	125			
		Electronics	82			
		Batteries	78			
		Appliances	23			
		Used Oil	2			
		Cloth & Fabrics	1			
Subtotal	0		20,385	21,758	0	21,758
Grand Total						42,143

Source(s) of information:
2013 District Annual Report and Residential/Commercial Surveys

**Table IV-6
Reference Year Industrial Waste Reduction in the District**

Type of Waste Source Reduced	TPY	Type of Waste Recycled	TPY	Incineration, Composting, Resource Recovery		
				Total Waste Received	Residual Landfilled	Net Waste Processed
None	0	Ferrous Metals	50,775	Incineration*	Ash	Net Incineration
		Cardboard	19,612	737	221	516
		Wood	11,528	Resource	Ash	Net Resource
		Plastic	5,186	0	0	0
		Paper	2,962	Composting	Residuals	Net Composted
		Glass	1,865	0	0	0
		Rubber	1,285			
		Food	964			
		Non-Ferrous Metals	178			
		Non-Exempt Foundry	168			
		Sand				
		Appliances	3			
		Misc.	3			
		Tires	1			
Subtotal	0		94,529	737	221	516
Grand Total						95,045

Source(s) of information:
2013 District Annual Report and Industrial Surveys

**Table IV-7
Total Waste Generation Based Upon Disposal Plus Waste Reduction**

Year	Management Method Used (TPY)											Total Waste Generation
	Source Reduction & Recycling			Yard Waste		Incineration			Landfill Disposal			
	Res/Com	Industrial	Total	Waste Incinerated	Composting	Waste Incinerated	Ash Disposal	Net Reduction	Res/Com	Industrial	Exempt	
2009	5,137	126,985	132,122	1,049	32,866	315	734	139,535	24,965	43,140	207,640	372,628
2010	7,539	126,985	134,524	1,620	32,087	486	1,134	129,187	24,816	40,635	194,638	361,249
2011	16,476	85,129	101,605	2,260	28,798	678	1,582	130,525	29,239	36,534	196,298	326,701
2012	15,693	83,801	99,494	2,360	20,724	708	1,652	126,623	28,263	39,891	194,777	314,995
2013	20,386	95,045	115,431	737	21,758	221	516	123,189	41,871	35,906	200,965	338,154

Source(s) of information:
District Annual Reports and Ohio EPA Facility Data Reports.

Table IV-8
Adjusted Reference Year Total Waste Generation for the District

Type of Waste	Generation Rate (lbs/person/yr)	Tons/Year
Residential/ Commercial	5.50	165,332
Industrial	4.55	136,916
Exempt	1.19	35,906
Total Waste Generation	11.25	338,155

Source(s) of information:

Exempt -Table IV-3

Residential/Commercial and Industrial - Tables III-1, IV-5 and Table IV-6

Example calculation (Industrial):

$$\text{Generation Rate (lbs/person/day)} = \frac{\text{Total Waste (tons/yr)} \times 2,000 \text{ (lb/ton)}}{\text{Population} \times 365 \text{ days/yr}}$$

$$4.55 = \frac{136,916 \times 2,000}{164,743 \times 365}$$

Table IV-9
Estimated Residential/Commercial Waste Stream
Composition for the District for the Reference Year

Waste Stream Type	Percentage of the Waste Stream	Tons
Paper	27.0%	44,640
Food	14.6%	24,139
Yard Trimmings	13.5%	22,320
Plastics	12.8%	21,163
Metals	9.1%	15,045
Rubber, Leather, & Textiles	9.0%	14,880
Wood	6.2%	10,251
Glass	4.5%	7,440
Other	3.3%	5,456
Totals	100.0%	165,332

Source(s) of information:

Total tons - Table IV-8

Total MSW Generation (by material) from US EPA Municipal Solid Waste Generation, Total MSW Generation (by material) 2013 (before recycling)

**Table IV-10
Estimated Industrial Waste Composition for the Reference Year in the District**

Waste Stream Type	TPY	Waste Stream Type	TPY	Waste Stream Type	TPY
Cardboard	27,809	Plastic	7,344	General Solid Waste	1,713
Paper	4,251	Rubber/Tires	1,820		
Wood	16,454	Food	1,366		
Ferrous Metals	72,033	Appliances	4		
Non-Ferrous Metals	253	Non-Exempt Foundry Sand	238		
Glass	2,640	Misc.	992		
Subtotal	123,439	Subtotal	11,764	Subtotal	1,713
Grand Total				Subtotal	136,916

Source(s) of information:

District Industrial Waste Survey for calendar year 2013 solid waste generation by type of waste and SIC number. Each industrial waste component was projected using the adjustment factor to account for nonrespondent industries.

Example Calculation:

$$\text{Adjustment Factor} = \frac{\text{Total Industrial Waste Generated (Table IV-8)}}{\text{Total Industrial Waste Generated (Table IV-2 - Survey)}}$$

$$\text{Adjustment Factor} = 1.4147 = 136,916 \div 96,778$$

$$\text{Type of Industrial Waste Generated (tons)} = \text{Type of Industrial Waste Generated (Appendix F)} \times \text{Adjustment Factor}$$

$$27,809 \text{ (tons of cardboard)} = 1,943.85 \text{ (tons of cardboard from Appendix F)} \times 1.4147$$

V. Planning Period Projections and Strategies [ORC Section 3734.53(A)(5)-(6)]

This Section of the *Plan Update* includes population projections for the District, including communities that are located in more than one county. Projections and estimates are also provided for solid waste generation and recycling for the planning period. Existing District programs and activities that will continue are presented. Most of the detailed descriptions for existing programs refer the reader back to Section IV for details. The details for new programs and activities are described in this section of the *Plan Update*.

A. Planning Period

Solid waste management plans must provide projections for population, waste generation, and waste reduction for a planning period covering a minimum of ten years. Plans must also provide strategies to manage the District's current and foreseen waste management needs of the residents, businesses, and institutions. This *Plan Update* is based on a fifteen-year planning period. The planning period for this *Plan Update* is January 1, 2017 to December 31, 2031. The projections and tables in this *Plan Update* include the years 2013 through 2031.

B. Population Projections

The District's population projections from the reference year (2013) through the end of the planning period are presented in Table V-1. The Ohio Development Services Agency's (ODSA) 2013 population estimates by county, city, village, and township were used to calculate a base population for the District. Using a second ODSA publication (Ohio County Profiles) which presents population projections by county in 10-year intervals from 2010 to 2040, District population projections were interpolated for intermediate years using a straight-line average.

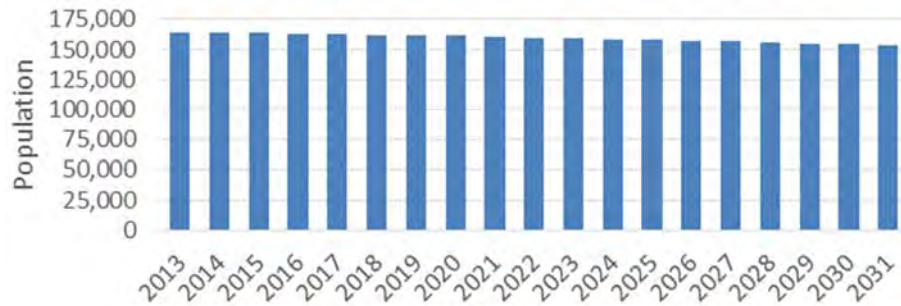
Ohio Law requires that the population of a political subdivision that lies within two or more solid waste management districts shall be credited to the district where the majority of the population resides. The District's reference year population was therefore adjusted from the base population of 157,165 to include the portions of the City of Bellevue's population residing in Erie County (2) and Huron County (3,617) and portions of the City of Fostoria's population in Huron County (2,925) and Wood County (1,034) because the majority of these political subdivisions' residents live inside Sandusky County and Seneca County, respectively. The District's total adjusted reference year population was 164,743.

The District anticipates the population to decrease annually throughout the planning period. Population is expected to decrease by 8,813 residents or

5.41% from 2017 to 2031. The District is projected to start the planning period in 2017 with a population of 162,804 and end in 2031 with a total population of 153,992.

The following figure presents the estimated District population from the reference year to the end of the planning period.

2013 – 2025 District Population Projections

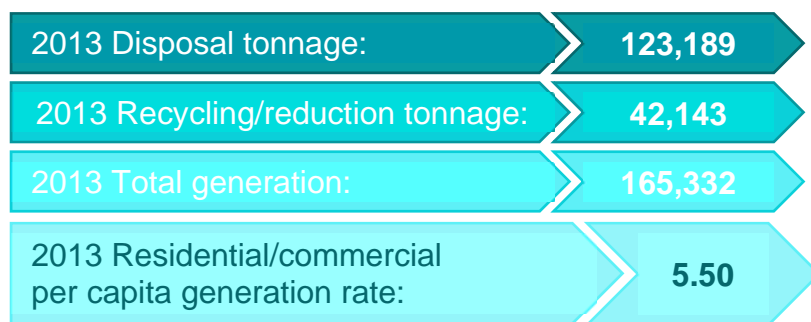


C. Waste Generation Projections

1. Residential/Commercial Sector

The District’s residential/commercial waste generation projections are presented in Table V-2, “District Residential/Commercial Waste Generation (TPY).” Waste generation is presented for the 2013 reference year and each subsequent year through 2031. In 2013, the District calculated the per capita generation rate based on Ohio EPA’s Facility Data Reports for disposal and from the District’s 2013 Annual District Report for recycling.

The following data was used for this calculation:



The total residential/commercial waste generation for 2013 (which includes recycling/reduction plus disposal) was 165,332 tons. Overall waste generation is projected to initially decrease from 2013 to 2016, then increase throughout the remainder of the planning period.

Total waste generation fluctuated from 2010 to 2013, averaging a negative 1.8% annual change in per capita generation. Half of this annual change was used to project the per capita generation rates for 2014 and 2015, since fluctuations usually increased and decreased every other year.

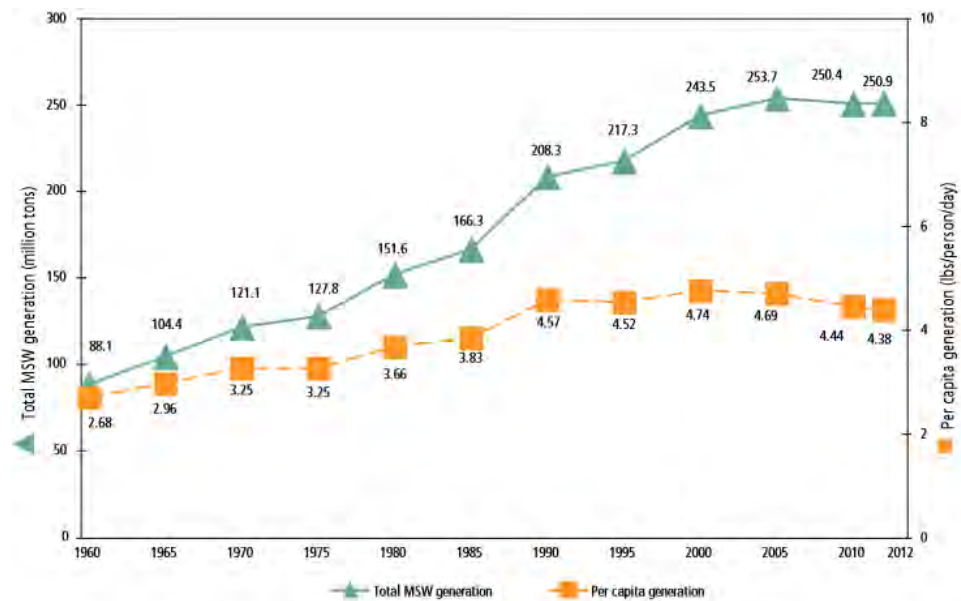
Nationwide residential/commercial waste generation rates show short-term trends of modest decreases, moving toward a stabilized rate.

The following figure presents the U.S. EPA’s national statistics from 2000 to 2012¹:

Year	2000	2005	2008	2010	2011	2012
Overall Generation	4.74	4.69	4.55	4.44	4.40	4.38
Percent Change		-1.1%	-3.0%	-2.4%	-0.9%	-0.5%

The following figure from the U.S. EPA’s 2012 *Facts and Figures Fact Sheet* presents the per capita waste generation and per capita generation rates from 1960 to 2012:

1960 – 2012 Total U.S. Municipal Waste Generation



¹ U.S. EPA. *Municipal Solid Waste Generation, Recycling, and Disposal in the United States: Facts and Figures for 2012*. Web. Accessed February 10, 2015.

Despite the recent short-term decreases, long-term trends in per capita waste generation generally tend to support increasing rates. Per capita generation rates are projected to increase in even intervals from 2017 to 2031. The per capita generation rate in 2031 was projected to be equal to the highest per capita generation rate recorded in the District from 2010 to 2013, which was 6.05 pounds per person per day (PPD).

Beginning in 2017, the first year of the planning period, residential/commercial waste is projected to be 161,745 tons. This is expected to increase to 170,026 tons in 2031, a 5.1% increase throughout the planning period.

The following graph presents the estimated residential/commercial waste generation throughout the planning period.

2013 – 2031 Residential/Commercial Waste Generation



2. Industrial Sector

The District’s industrial waste generation projections are presented in Table V-3. Industrial waste generation is presented by Standard Industrial Classification (SIC) code for the 2013 reference year through 2031.

The industrial waste generated by each SIC code in 2013 is based on the ratio of waste reported by industries in industrial SIC codes in Table IV-2. The totals have been adjusted to correspond to the total industrial waste generation in Table IV-8, which is based on volumes recorded by landfills, transfer stations, waste-to-energy facilities, plus recycling and composting.

Industrial waste generation projections are based on the Ohio Department of Job and Family Services’ (ODJFS) publication, *Regional Manufacturing Population from Jobs Ohio Regions to 2020: Northwest Ohio*. The publication provides industry and occupational projections for the Northwest JobsOhio Region from 2010 to 2020.

The Northwest JobsOhio region includes the following counties: Allen, Crawford, Defiance, Fulton, Hancock, Hardin, Henry, Lucas, Ottawa, Paulding, Putnam, Sandusky, Seneca, Van Wert, Williams, Wood, and Wyandot.

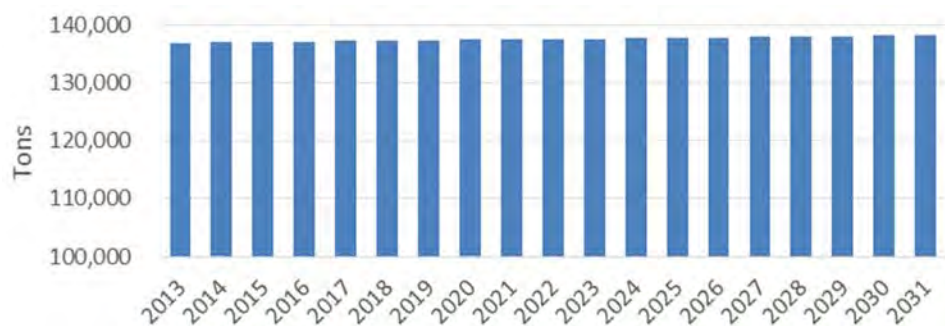
Employment in the manufacturing sector in the Northwest JobsOhio Region is projected to increase 0.5% from 2010 to 2020, or an average annual increase of 0.05%. Total generation is projected to change at the same rate as industrial sector employment. The annual increase of 0.05% is continued throughout the remainder of the planning period.

Tonnage in Table V-3 presents the industrial waste generation projections from the reference year through the end of the planning period.

The District projects industrial waste will increase from 136,916 tons in the reference year to 138,192 tons in 2031, a 0.93% increase. The top ten manufacturing plants in the District, in terms of total tons generated, have been in operation for more than 5 years, and the District is not aware of any discussions or plans to close any of the facilities. Industrial sector activities in the District are relatively mature and stable, which supports the modestly increasing projections.

The following figure presents the estimated industrial waste generation throughout the planning period.

2013 – 2031 Industrial Generation



3. Total Waste Generation

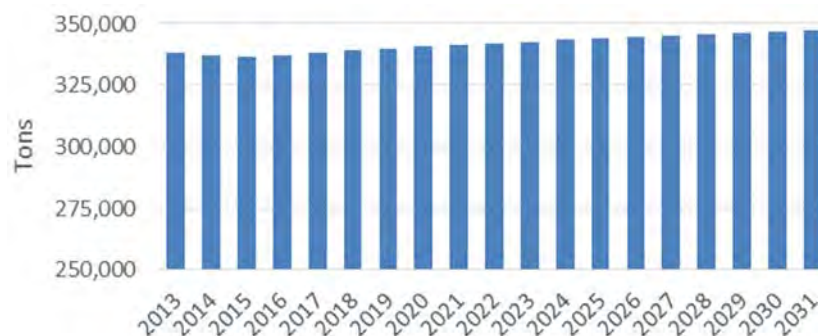
Total waste generation projections for the District during the planning period are presented in Table V-4. The total waste generation calculation for the 2013 reference year was 338,155 tons. This includes residential/commercial waste (165,332 tons), industrial waste (136,916 tons), and exempt waste (35,906 tons).

Exempt waste does not have a direct correlation to population or market/economic factors. Exempt waste is a term used to describe construction and demolition debris, nontoxic fly ash and bottom ash, spent nontoxic foundry sand, slag, and other materials excluded from the definition of solid waste in the Ohio Revised Code (ORC) § 3734.01(E). A trend was not identified in the exempt waste reported from 2009 to 2013. Therefore, the average tonnage from 2009 to 2013 was used as a flat line projection from 2016 to 2031. Tonnage for intermediate years (2014 to 2015) was projected to gradually increase to the 2009-2013 average in equal increments.

The overall generation rate which includes residential/commercial, industrial, and exempt waste generation in pounds per person per day (PPD) for the reference year is 11.25. The projected per capita generation rate will increase to 12.26 PPD in the final year of the planning period. Total waste generation is projected to increase 9,260 tons over the fifteen-year planning period (2017-2031) from 338,178 tons to 347,439 tons, a 2.7% change.

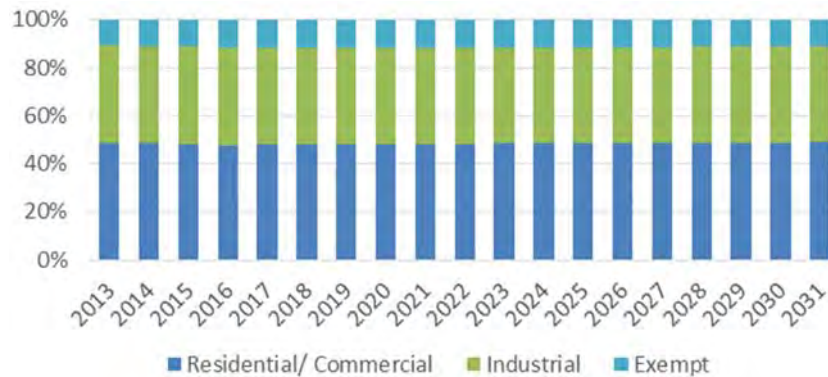
The following figure presents the District’s total waste generation projections throughout the planning period.

Total District Waste Generation (2013 – 2031)



The following figure presents waste generation by sector as a percentage of the District’s total waste generation.

Total District Waste Generation by Sector (2013 – 2031)



D. Projections for Waste Stream Composition

The District does not anticipate any major changes in the composition of the waste stream during the planning period. However, a change in economic conditions or the closure of a plant could greatly impact the industrial as well as residential/commercial projections.

Responses to the District’s bi-annual industrial sector survey should alert the District to any major changes in the industrial sector. Any significant changes in waste stream composition will be noted in the Annual District Report (ADR).

E. Waste Reduction and Recycling Strategies through the Planning Period

The District must continue to develop recycling and waste reduction strategies to meet Goal #1 or Goal #2 and Goals #3 through #7 established in the *1995 State Plan*. The goals include:

Goal #1

- Ensure the availability of reduction and recycling opportunities/programs for residential/commercial waste.

Goal #2

- Reduce and/or recycle at least 25% of the residential/commercial waste generated and 50% of the industrial waste generated.

Goal #3

- Provide informational and technical assistance on source reduction.

Goal #4

- Provide informational and technical assistance on recycling, reuse and composting opportunities.

Goal #5

- Develop strategies managing scrap tires and household hazardous waste (HHW).

Goal #6

- Districts are required to submit an annual report to Ohio EPA.

Goal #7

- Prepare a market development strategy (optional).

The following table summarizes all of the District strategies for meeting the 1995 State Plan Goals:

Program	Program #	1995 State Plan Goals						
		#1	#2	#3	#4	#5	#6	#7
Curbside Recycling	OSS-1	✓	✓					
Drop-Off Recycling	OSS-2	✓	✓					
Yard Waste Management	OSS-3	✓	✓	✓	✓			
Household Hazardous Waste Management	OSS-4	✓	✓		✓	✓		
Scrap Tire Collection	OSS-5	✓	✓		✓	✓		
Lead-Acid Battery Management	OSS-6	✓	✓		✓	✓		
Appliance Collection	OSS-7	✓	✓			✓		

Program	Program #	1995 State Plan Goals						
		#1	#2	#3	#4	#5	#6	#7
Electronics Collection	OSS-8	✓	✓		✓	✓		
Material Recovery Facilities	OSS-9	✓	✓		✓			
Recycling Market Development Grant	OSS-10							✓
Competitive Funding	OSS-11							✓
City and Village Funding (CVF)	OSS-12							✓
Education and Awareness	OSS-13			✓	✓			
Commercial/Industrial Technical Assistance	OSS-14			✓	✓			
Litter Collection	OSS-15				✓			
Beach and River Clean-Ups	OSS-16				✓			
Adopt-a-Road	OSS-17							
Container Loan	OSS-18	✓	✓		✓			
Health Department Financial Support	OSS-19							
Needle Disposal Campaign	OSS-20							
Medication Take-Back	OSS-21							
Disaster Debris Management	OSS-22							
Strategic Planning	OSS-23							
Number of Strategies Per Goal		10	10	3	11	5	0	4

Residential/Commercial Waste Reduction/Recycling and Education Strategies

The District's residential/commercial waste reduction strategies are presented in Table V-5. Actual tonnage was used for the 2013 reference year. Diversion for each program from 2014 to 2031 was projected using the following assumptions:

- Curbside Recycling (OSS-1): Actual program tonnage for 2014 was reported by haulers for all but one municipality. Actual 2014 data was used combined with the 2013 tonnage from the municipality that did not report.
 - ✓ 2015: The City of Tiffin will begin a non-subscription curbside recycling program April 1, 2015. The daily per capita recycling rate from the District's non-subscription curbside program with the lowest daily per capita recycling rate was multiplied by the number of residents in the City of Tiffin and multiplied by

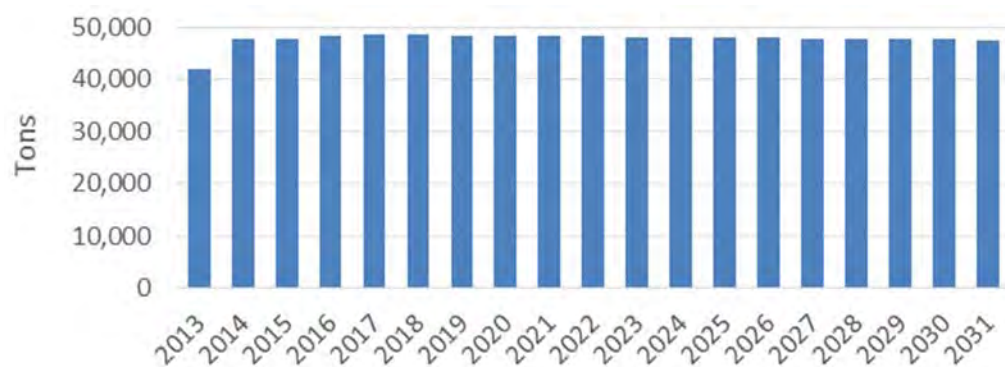
268 days. The tonnage from this calculation was added to the 2014 curbside total to derive a projected value for all curbside activities in 2015.

- ✓ 2016: The average daily per capita recycling rate of the District's non-subscription curbside programs was used to project the City of Tiffin's recycling rate in 2016. The calculation assumed that the program would operate for 12 months. The 2014 tonnage for other curbside programs was added to this total.
 - ✓ 2017: The daily per capita recycling rate from the District's non-subscription curbside program with the highest daily per capita recycling rate was multiplied by the number of residents in the City of Tiffin and multiplied by 365 days. The increasing per capita recycling rate used from 2015 to 2017 for the City of Tiffin reflects better recovery rates as the program matures. The 2014 tonnage for other curbside programs was added to this total.
 - ✓ 2018-2031: Tonnage is projected to remain flat because there are no new initiatives planned that would significantly impact recovery rates.
- Drop-Off Recycling (OSS-2), Household Hazardous Waste Management (OSS-4), Scrap Tire Collection (OSS-5), Lead-Acid Battery Management (OSS-6), Appliance Collection (OSS-7), Material Recovery Facilities (OSS-9), tires recycled from non-district events, and other reported commercial recycling from surveys was projected to change at the same rate as population.
 - Yard Waste Management (OSS-3) from 2014 to 2031 was projected as a flat average of the tonnage reported from 2009 to 2013.
 - Electronics Collection (OSS-8) was projected to increase 2.5% annually from 2014 to 2017. Tonnage is projected to increase at 0.5% annually from 2018 to 2031. Electronics collected by the District increased 40% from 2010 to 2014. A report produced by the United Nations' STeP Initiative supports higher increased in e-waste generation until 2017. The use of electronics and subsequent generation of e-waste will continue to increase at a slower rate throughout the planning period. Annual increases in projected tonnage are supported by trends seen nationwide. A higher percentage of the e-waste materials are recovered each year due to better consumer education, a growing number of end-users, and an expanding infrastructure to manage discarded electronic devices.

- Litter Collection (OSS-15), Beach and River Clean-Ups (OSS-16), and commercial box stores reporting directly to Ohio EPA were projected to remain flat throughout the planning period. Litter collection and river clean-ups are dependent on the total volunteers engaged. Volunteers for clean-ups have and can increase despite modest declines in population. Ohio EPA has recently been increasing the number of stores that report directly to the agency; however, the total stores that will report to the agency is not known for future years. Due to the nature of the programs and the unknown factors associated with the data collected by Ohio EPA at this time, a flat projection was made as a modest estimate.

The District anticipates that residential/commercial recycling will increase from 42,143 tons in 2013 to 47,668 tons in 2031. The implementation of the City of Tiffin’s curbside program most heavily impacts the increase in overall residential/commercial sector recycling.

The following figure presents the residential/commercial sector recycling from 2013 to the end of the planning period.



The following strategies address many of the challenges that the District identified with their current solid waste management programs.

RESIDENTIAL/COMMERCIAL RECYCLING AND COLLECTION PROGRAMS

1. OSS-1 – Curbside Recycling
(State Plan Goals #1 and #2)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Not all communities in the District have curbside recycling service.

- Only two of the curbside recycling communities in the District have PAYT service.
- Contamination of materials.
- Other materials such as junk mail, mixed paper and magazines is not universally accepted.
- Inconsistent data collection between District, community and hauler.
- The District needs to continue an education effort to increase participation and explain what materials can be recycled in the program.

To address these challenges, the District will implement the following strategies:

Initiative OSS-1.1: Curbside Recycling Program Promotion

The District will implement targeted promotional activities to residents that have curbside recycling to accomplish the following results:

- Increase participation through promotion of the program.
- Decrease contamination through educating residents on the acceptable materials for their program.

Promotional activities could include the following:

- Targeted mailings to residents
- Targeted cable TV spots
- Placement of billboards or mobile signs
- Handouts in community newsletters
- Community website messages
- Posting program operational information on Facebook and Twitter

A majority of the increased promotional activities listed above can be implemented by the District's Community Outreach Specialist which will minimize the expense to this initiative.

The District will develop a marketing plan for the purpose of tailoring the messages to target specific demographic groups. For example, a younger audience will respond better to Social Media where an older audience still prefers handouts and newsletters.

The targeted efforts will begin with the communities that have non-subscription curbside recycling, specifically:

- City of Port Clinton
- City of Fremont
- City of Tiffin
- Village of Clay Center
- Village of Elmore
- Village of Oak Harbor
- Village of Woodville
- Village of Gibsonburg
- Village of Genoa

Subscription curbside recycling communities that will be targeted include the following:

- Village of Lindsey
- City of Bellevue

Implementation: 2017-2018 for Non-Subscription Cities
 2019-2020 for Non-Subscription Villages
 2020-2022 for Subscription Communities

Initiative OSS-1.2: Curbside Program Contract Management

The District will work with the curbside recycling communities that have contracts with their haulers to make improvements in the following areas:

- Increased program education on a frequent basis
- Increase the amount of recyclables accepted
- Evaluate PAYT service options to develop economic incentive options for residents
- Require quarterly data reporting on recycling
- Promote options for curbside organics management

The District will first begin this initiative by developing a comprehensive contract management list for each community. The list will include the following information:

- Hauler under contract
- Contract price by service
- Contract term
- Education requirements
- Materials accepted for recycling

- Special services
- Other information as needed

Implementation: 2017

Initiative OSS-1.3: Targeting Communities with Expiring Contracts

The District will target each community that has a contract ending within 8 months, to begin working directly with the procurement office of the community to accomplish the goals of this initiative. The following table presents a list of known contract expiration dates. The District will continue to research contract expiration dates and update the list as additional information becomes available.

Community	Contract	Expiration Date
City of Fremont	Republic Services	Ending June 2016 - 3-year contract with 2 year renewals
Village of Genoa	Waste Management	Ending March 2017
Village of Oak Harbor	Republic Services	Contract expires 2017. 2-year option for 2018 & 2019
Village of Gibsonburg	Buckeye Sanitation	Expires 12/31/2016 - 3-year contract
City of Tiffin	Republic Services	April 15, 2015 to April 15, 2018 with a 2-year extension
Village of Woodville	Buckeye Sanitation	Ongoing contract until either party cancels.

Implementation: 2017-2031

Initiative OSS-1.4: Work with Communities to Reinstate Curbside Recycling Programs

Communities may discontinue curbside recycling programs for a variety of reasons. The District provides assistance to communities to avoid the unfortunate discontinuation of curbside recycling programs. However, in the event that a program ends, the District will work with the community to address issues that resulted in the program being discontinued and guide the community through the process of reinstating a curbside recycling program.

One of the District's success stories that came from this initiative is the City of Tiffin. The District worked for several years to encourage

the City of Tiffin to restart a curbside recycling program that was discontinued in 1994. The City Council of Tiffin voted to release a request for proposals for the program in late Fall of 2014. The District worked with the City to develop a Pay-As-You-Throw (PAYT) solid waste program that would complement a curbside recycling program. The PAYT program provided residents with three choices for the size of trash container, which included 95, 65, or 35 gallon containers. Residents could also opt to buy bags. Through the program, all residents would receive a 65-gallon recycling cart and receive bulk pickup services. The bid was awarded and the program was implemented in April of 2015. The District formed a committee that was made up a diverse members of the community. This committee developed an education plan that was implemented city-wide to guide residents through the sign up process and help them to understand how the program would work.

Implementation: Ongoing, as needed

2. OSS-2 – Drop-Off Recycling
(State Plan Goals #1 and #2)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Contamination of materials from private sector run programs.
- Wind can cause blowing plastic when truck dump containers.
- There is a risk of open dumping.
- Lid locks are not put back in place causing lids to blow open.

To address these challenges, the District will implement the following strategy:

Initiative OSS-2.1: Developing a Partnership for Drop-Off Management

The District will develop a program to create a partnership with local non-profit organizations to assist with the housekeeping and promotional activities at targeted high use drop-off sites operated by the District.

The program will seek interested non-profit organizations or individuals that can provide the following services to the District:

- Routine and frequent general housekeeping at sites designated by the District. This would include:
 - ✓ Cleaning site of spilled or windblown recyclables or debris reporting to District on issues with the recycle dumpsters or signage.
 - ✓ Ensuring lid locks are secured on each dumpster.
 - ✓ Other tasks as assigned by the District.
- Handing out District promotional materials to participants of the drop-off site.
- Appearing in quick promotional videos for You Tube and Facebook educating residents on proper recycling.

To implement this program, the District will develop a “Non-Profit Organization Partnership for Drop-Off Management” operational manual. The manual will include the purpose and objectives of the program, service requirements, possible donation levels and partnership agreement.

Upon completion of the manual, the District will conduct a seminar that will be promoted to local non-profit organizations. The seminar will review the purpose and objectives of the program. The District will put an online reporting section on the website so volunteers can enter data.

Implementation: 2017

Initiative OSS-2.2: Implementation of Partnership Management Program

The District, based on adequate participation from the local non-profit organizations, will implement the program in 2018.

Implementation: 2018-2021

By the end of 2021, the District will evaluate the effectiveness of this program to determine if it will continue into the next Plan Update.

3. OSS-3 – Yard Waste Management
(State Plan Goals #1, #2, #3, and #4)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Most communities in the District do not have curbside yard waste pick-up except for leaves in some counties.
- Storm debris is difficult to manage.

The District will promote curbside yard waste management options as part of Initiative OSS-1.2, *Curbside Program Contract Management*. The District Storm Debris Management program covers issues related to storm debris management difficulties.

4. **OSS-4 – Household Hazardous Waste Management** (State Plan Goals #1, #2, #4, and #5)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- A significant amount of materials collected are still usable.
- Cost of the program.
- Some of the collection sites can no longer accommodate the amount of residents that participate, or the sites have conflicting events on the same day.
- Limited collection times.

To address these challenges, the District will implement the following strategy:

Initiative OSS-4.1: Promoting Reduction of Household Hazardous Waste Generation

The District's long term goal is to reduce the amount of materials collected from its HHW program that are still usable. Materials that are truly household hazardous waste and not household hazardous products that are still usable include the following materials:

- Used oil;
- Used antifreeze;
- Spent household and automotive batteries;
- Empty propane cylinders;
- Empty aerosol containers; and
- Other non-usable household hazardous products that, through their normal use according to the manufacturer, have become contaminated, depleted or otherwise unusable.

Materials that contain hazardous constituents but if entirely used as intended by their manufacturer do not end up as waste products, include the following materials:

- Paint products, sealers and coatings
- Certain automotive car care products
- Household cleaners
- Pesticides, herbicides and insecticides
- Fertilizers
- Pool chemicals

To accomplish this long term goal, the District will enhance its education and awareness program to include the following:

- Teach students and adults the value of products that contain hazardous constituents, to buy what is needed and use the entire product for its intended purpose;
- Promote the use of alternative non-hazardous products such as latex paint, plant based cleaners or other non-hazardous alternatives;
- Promote project planning for the efficient use of paint products (i.e., coverage formulas on District website);
- Include statements in HHW collection event advertisements (when feasible) to discourage residents from bringing usable products and or non-hazardous products to collection events; and
- Add HHW management techniques to youth and adult education presentations.

The District believes that the long term cost to manage HHW will be greatly reduced as the efforts above are implemented and become effective.

Implementation: 2017-2031

5. OSS-5 – Scrap Tire Collection
(State Plan Goals #1, #2, and #4)

This program will continue. The challenges for this program presented in Section IV included:

- Individual participants exceed the maximum allowable amount of scrap tires accepted.
- Cost of program to recycle the tires.

The District will continue to advise residents not to exceed the maximum amount of tires allowed under this program.

The District will continue to monitor scrap tire recycling costs in the region and adjust as needed to maintain the program.

6. OSS-6 – Lead-Acid Battery Management
(State Plan Goals #1, #2, and #4)

This program will continue. The challenges for this program presented in Section IV included:

- We do not have good data collection for how many batteries are recycled at individual retailers.
- Educating the residents on how to properly handle and transport lead acid batteries for their safety.

To address these challenges, the District will implement the following strategies:

Initiative OSS-6.1: Battery Survey

The District will add a special battery survey instrument targeted to the collection sites listed on the District's website. The District surveys bi-annually for recycling data.

Implementation: 2017

Initiative OSS-6.2: Battery Handling Procedure

The District will add to its website specific procedures for the safe handling and transportation of lead acid batteries to collection sites.

Implementation: 2018

7. OSS-7 – Appliance Collection
(State Plan Goals #1, #2, and #5)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Collections are only held once per year except in Ottawa County.
- Due to the inherent nature of the scrap yard business, recycling appliances directly at the scrap yard is not considered user friendly for the residents.

At this time, the District is not in a position to address the challenges listed above.

8. OSS-8 – Electronics Collection
(State Plan Goals #1, #2, and #4)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Negative publicity regarding the recycling of electronic equipment.
- Cost of TV recycling.
- No outlets for collection of big screen and console TVs between events.

To address these challenges, the District will implement the following strategy:

Initiative OSS-8.1: Reviewing Practices of Electronics Recyclers Contracted by the District

The District will review e-waste recyclers that manage computers and other electronic materials collected from District programs to ensure the end-use of materials is environmentally and socially acceptable. This review may include the following actions:

- ✓ Striving to only hire contractors that meet either the Responsible Recycling Practices (R2) certification and/or the e-Stewards® standards.
- ✓ Auditing the District's contracted e-waste recycling vendor.
- ✓ Auditing the third party handlers of e-waste collected by the District's programs.
- ✓ Reviewing any international end-users of e-waste materials collected through the District's programs.

- ✓ Other actions as deemed necessary by the District.

Based on the outcome of the evaluation, the District may change its procurement procedures for e-waste vendors to ensure that District materials are being managed safely and effectively.

The District toured its electronics processors in 2014 and 2015, and will continue to ensure that any company used to manage electronics collected at District events will at a minimum have the R2 certification.

In 2015, the District had a contract to manage electronic waste with Global Environmental Services (GES). As of the first quarter of 2016, the District was seeking a new service provider because the R2 certification of their former service provider, GES, was suspended following reports that GES improperly managed CRTs and other electronic equipment near its facility in Georgetown, Kentucky.

Implementation: 2014

9. OSS-9 – Material Recovery Facilities
(State Plan Goals #1, #2, and #4)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Camp is limited for future expansion in processing capacity.
- Because of low volume of recyclables, the Camp does not receive the best market price.

To address these challenges, the District will implement the following strategy:

Initiative 9.1 - Recycling Center Feasibility Evaluation

The District's Camp recyclables processing facility is described in detail in Section IV. The buildings that house the District's recycling center are owned by the Ohio Department of Natural Resources. The facility was the old Barney Quilter CCC Camp. WSOS, a local Community Action Commission, has occupied most of the facility but will be leaving in 2016. Because of this change, the District will have to look at the continued feasibility of staying at the location. It has also been the long term goal of the District to have the office and recycling operations in one location.

The District will continue to evaluate options for the Recycling Center during the Plan period, including:

- ✓ Options to locate the recycling center closer to the District office.
- ✓ Possible options for a location that would house both the recycling operations in a suitable building with office space at the same location.

Implementation: 2017-2031

RESIDENTIAL/COMMERCIAL/INDUSTRIAL MARKET DEVELOPMENT PROGRAMS

1. OSS-10 – Recycling Market Development Grant (State Plan Goals #1, #2, #4, and #5)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Many companies are unaware of the program.
- The program is dependent on State funding which may or may not be available in the future.
- Many companies do not have the expertise to prepare grant applications.

To address these challenges, the District will implement the following strategy:

Initiative OSS-10.1: Targeted Market Development Grant Promotion

The District will conduct the following to improve this program:

- Expanding promotion of the grant through the District's website and other publications.
- Identifying a list of potential commercial and industrial companies that can be targeted for promotion of the program directly.

- The District will assist companies with their applications for funding when it is determined viable candidates for the funds have been identified.

Implementation: 2017-2031

2. OSS-11 – Competitive Funding
(State Plan Goals #1, #2, and #4)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Funds are limited.
- Application information is not complete for some of the grant requests.
- The program is not universally recognized across the District.

To address these challenges, the District will implement the following strategy:

Initiative OSS-11.1: Program Promotion

The District will conduct the following to improve this program:

- Expanding promotion of the grant through the District's website and other publications.
- Identifying a list of potential grantees that can be targeted for promotion of the program directly. Utilize lists from United Way and Chamber of Commerce.
- The District will assist grantees with their applications to ensure quality and complete applications are submitted. The District will continue to revise the training given to grant applicants at the required meeting before grant submittal to improve the quality of grants submitted.

Implementation: 2018-2031

3. OSS-12 –City and Village Funding (CVF)
(State Plan Goals #1, #2, and #4)

This program will continue (see description in Section IV). There were no challenges identified in Section IV.

RESIDENTIAL SECTOR EDUCATION AND AWARENESS PROGRAMS

1. **OSS-13 – Education and Awareness** (State Plan Goals #1, #2, and #4)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- The geographic realities of the District and time limitations of the staff limit the ability to cover all areas effectively.
- Competing with the state testing requirements and time commitments of teachers.
- State education standards challenge the ability for the District to conduct presentations.
- Personnel changes in 2013.
- Weather delays and cancellations can sometime make it difficult to complete classroom presentations.

To address these challenges, the District will implement the following strategy:

Initiative OSS-13.1: Pro-Bono Environmental Educators

The District will evaluate the feasibility of developing a partnership with local colleges to train student teachers to conduct District recycling presentations. The educators would conduct presentations for the District pro-bono in exchange for school credit towards their individual majors and or teacher certificates. If feasible, the District will work with each college and university to develop the requirements and procedures for the educator cooperative and promote the program at the participating colleges and universities and train the candidates. The District will also work with local groups like the League of Women Voters, Franciscan Earth Literacy Center and other environmental groups to help conduct presentations.

Implementation: 2019-2020

COMMERCIAL/INDUSTRIAL SECTOR EDUCATION AND AWARENESS PROGRAMS

1. **OSS-14 – Commercial/Industrial Technical Assistance** (State Plan Goals #3 and #4)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Finding local or regional markets for unique unwanted materials.
- Recommendations in waste assessment reports are not always followed.

To address these challenges, the District will implement the following strategy:

Initiative 14.1 – Recycling Program Development

The District will work with the Chamber of Commerce in each county of the District and the Economic Development Corporation offices to develop programs that would benefit local business and industry.

- The District will investigate holding workshops that would benefit business and industry. Workshops would cover contracting, setting up recycling programs and assistance with recycling markets.
- The District will work with these agencies to better communicate through newsletters and social media outlets.

Implementation: 2017-2031

LITTER PREVENTION AND COLLECTION PROGRAMS

1. **OSS-15 – Litter Collection** (State Plan Goal #7)

This program will continue (see description in Section IV). There were no challenges identified in Section IV.

2. OSS-16 – Beach and River Clean-Ups
(State Plan Goal #7)

This program will continue (see description in Section IV). There were no challenges identified in Section IV.

3. OSS-17 – Adopt-A-Road
(State Plan Goal #7)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Inconsistent communication from adopting groups regarding pick-ups.
- Education oriented adopting groups have limited time to conduct clean-ups.
- Education oriented adopting group contacts change frequently.
- Contractual requirements of program may prohibit some potential adopting groups from participating.
- Limited District staff time to manage program.
- Township and county garages are hesitant to help the District pick up bags on their roads.

To address these challenges, the District will implement the following strategy:

Initiative OSS-17.1: AAR Compliance Program

The District will distribute two warnings that the group is not performing regular clean-ups and submitting clean-up information via mail, email, fax, or by phone. On the third notification, the District will remove the adopting group's signs and make the existing contract null and void until regular clean-ups are being performed.

Implementation: 2017-2031

OTHER PROGRAMS

1. **OSS-18 – Container Loan** (State Plan Goals #2, #3, and #4)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Participants do not return containers on time.
- Containers are used for trash.

To address these challenges, the District will implement the following strategies:

Initiative OSS-18.1: Late Container Fee

The District currently has a \$50 fee for containers that are not returned or are damaged. The District will revise this current policy to include a late fee to reduce the number of containers not returned on time.

Implementation: 2018

Initiative OSS-18.2: Special Event Recycling Kit

The District will develop a special event recycling kit that will be designed to assist special event recycling coordinators that may utilize the District's containers. The kit will include suggestions on how to reduce contamination in the recycling containers and to provide an environmentally successful event.

Implementation: 2019-2020

2. **OSS-19 – Health Department Financial Support**

This program will continue (see description in Section IV). There were no challenges identified in Section IV.

3. **OSS-20 – Needle Disposal Campaign**

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Pharmacies still sell sharps containers which are not accepted by local haulers.

- Not all doctors' offices have an area to display information.
- Limited outlets for residents to dispose of needles in sharps containers.

To address these challenges, the District will implement the following strategy:

Initiative OSS-20.1: Proper Needle Disposal Awareness

The District will conduct the following to improve the awareness of the issue:

- Expand education and awareness of proper needle disposal through the District's website and social media, publications and handouts.
- Highlight proper needle disposal during adult programs and presentations.
- Continue to distribute Proper Needle Disposal flyers and postcards to participating doctors' offices, pharmacies and hospitals.

Implementation: 2017-2031

4. OSS-21 – Medication Take-Back

This program will continue (see description in Section IV). There were no challenges identified in Section IV.

5. OSS-22 – Disaster Debris Management

This program will continue (see description in Section IV). The following is a clarification on funding availability and distribution:

The District maintains a funding mechanism for counties within the District in the event of a natural disaster that requires solid waste management activities. Funding of up to \$100,000 is available which will be divided equally for each county in the District at \$33,000. Funding for any given project is not guaranteed and is contingent on the District's budget at the time of the natural disaster. The District will fund projects with excess unencumbered revenue.

When a large scale disaster occurs across more than one county, the District, if approved by the Board, will reimburse the affected

political subdivision, after the event, on a per capita basis so the limited funding can be equally distributed. When the event is widespread, the District will not contract with individual brush grinding services to ensure the limited funding is available to complete the cleanup projects.

In smaller concentrated events like a tornado touching down on a few streets, the District may choose to contract with a brush grinding service to help with the cleanup if the District can be assured that the cleanup effort is within the \$33,000 allocated for each county.

Disaster Debris Management Plan

The District reviewed the Ohio Emergency Management Agency's (OEMA) disaster management plan. The District updated its disaster debris management plan per the requirements of the OEMA's plan in early 2016. OEMA has officially received the District's plan but has not commented on its content as of the date of this *Plan Update*. The Board for the District approved the Disaster Debris Plan on March 30, 2016. A copy of the District's Disaster Debris Plan is on file at the District office. The following is the contents of the Plan:

- Overview
- Situations and Assumptions
- Administration and Logistics
- Debris Management Organization and Staff Responsibilities
- Debris Response and Recovery Primary and Support Agencies
- Health and Safety Plan Procedures
- Worker Safety – Volunteer Reception Centers
- Training Schedule
- Debris Forecasting and Estimating
- Phase 1 – Initial Response Operations
- Phase 2 – Recovery Operations
- Types of Debris Contracts
- Temporary Debris Staging and Reduction Sites (TDSR's)
- Recycling Storm Debris
- Environmental Requirements and Permitting
- Specialized Debris Removal
- Private Property Demolition and Debris Removal
- Public Information Strategy
- Weapons of Mass Destruction / Terrorism Event
- Authorities and References

The challenges of this program presented in Section IV include:

- Staying on top of ever changing FEMA requirements.
- Predicting areas and amounts of debris.
- Coordinating writing of the annex with the three County EMA Directors.
- Providing equal aid to all of the affected communities when there is limited amount of funding.

To address these challenges, the District will implement the following strategy:

Initiative OSS-22.1: Regional Disaster Plan Review

The District will evaluate other Ohio solid waste district disaster debris management plans and policies to determine if any improvements can be made or if lessons learned can assist the District with the challenges listed above.

Implementation: 2018-2019

6. OSS-23 – Strategic Planning

This program will continue (see description in Section IV). There were no challenges identified in Section IV.

Industrial Waste Reduction/Recycling and Education Strategies

The District’s industrial waste reduction strategies are presented in Table V-6. Actual tonnage was used for the 2013 reference year. Diversion for each program from 2014 to 2031 was projected using the following assumptions:

- The District’s industrial data fluctuated from 2010 to 2013. The following table presents the District’s annual recycling totals:

Year	Tons Recycled*
2013	90,589
2012	112,453
2011	90,184
2010	82,336

$$\left. \begin{array}{l} 2013 \\ 2012 \end{array} \right\} \begin{array}{l} (90,589 \text{ tons} - 90,184 \\ \text{tons}) \div 90,184 \text{ tons} \\ = 0.4\% \end{array}$$

*Table does not include tons of waste reduced via incineration.

Totals in 2010 and 2012 were uncharacteristically high or low. To conservatively project totals moving forward, an annual escalator of 0.2% was used to estimate industrial recycling totals from 2014 to 2031. The factor of 0.2% is half of the percentage of change from 2011 and 2013. The percentage of increased tonnage from 2011 to 2013 (omitting 2012) was divided by two because the percentage reflected a change in tonnage over a two-year period.

The District anticipates that industrial recycling will increase from 95,045 tons in 2013 to 98,526 tons in 2031.

Programs and strategies discussed earlier in this Section that target the industrial and commercial sector include the Recycling Market Development Grant program (OSS-10) and Commercial/Industrial Technical Assistance program (OSS-14).

**Table V-1
District Population Projections**

Year	Ottawa County Population	Sandusky County Population	Seneca County Population	+ City of Bellevue Population (Erie County)	+ City of Bellevue Population (Huron County)	+ City of Fostoria Population (Hancock County)	+ City of Fostoria Population (Wood County)	Total District Population
2013	41,153	60,098	55,914	2	3,617	2,925	1,034	164,743
2014	41,003	59,894	55,791	2	3,616	2,923	1,031	164,258
2015	40,852	59,690	55,667	2	3,614	2,920	1,028	163,774
2016	40,702	59,486	55,544	2	3,613	2,918	1,025	163,289
2017	40,551	59,282	55,420	2	3,612	2,915	1,022	162,804
2018	40,401	59,078	55,297	2	3,610	2,913	1,018	162,319
2019	40,250	58,874	55,173	2	3,609	2,910	1,015	161,835
2020	40,100	58,670	55,050	2	3,608	2,908	1,012	161,350
2021	39,962	58,347	54,849	2	3,597	2,907	1,013	160,677
2022	39,824	58,024	54,648	2	3,586	2,906	1,014	160,004
2023	39,686	57,701	54,447	2	3,575	2,906	1,015	159,331
2024	39,548	57,378	54,246	2	3,564	2,905	1,016	158,658
2025	39,410	57,055	54,045	2	3,553	2,904	1,016	157,985
2026	39,272	56,732	53,844	2	3,542	2,903	1,017	157,313
2027	39,134	56,409	53,643	2	3,531	2,903	1,018	156,640
2028	38,996	56,086	53,442	2	3,520	2,902	1,019	155,967
2029	38,858	55,763	53,241	2	3,509	2,901	1,020	155,294
2030	38,720	55,440	53,040	2	3,498	2,901	1,021	154,621
2031	38,536	55,160	52,892	2	3,489	2,894	1,019	153,992

Source(s) of information: 2013 Population - Ohio Development Services Agency Office of Research, 2013 Population Estimates by County, City, Village & Township, May 2014.

Population projections in 10-year intervals 2020 - 2040 - Ohio Development Services Agency, Population Projections: County Totals, February 2, 2015.

District Percent Change 2013-2031	District Percent Change 2017-2031
-6.53%	-5.41%

Sample calculations:

2013 Population = Ottawa Co. population + Sandusky Co. population + Seneca Co. population + City of Bellevue population in Erie Co. + City of Bellevue population in Huron Co. + City of Fostoria population in Hancock Co. + City of Fostoria population in Wood Co.

$$164,743 = 41,153 + 60,098 + 55,914 + 2 + 3,617 + 2,925 + 1,034$$

2021 Ottawa County population = ((2030 ODSA Ottawa County population projection - 2020 ODSA Ottawa County population projection) ÷ 10) + 2020 ODSA Ottawa County Population estimate

$$39,962 = ((38,720 - 40,100) ÷ 10) + 40,100$$

**Table V-2
District Residential/Commercial Waste Generation (TPY)**

Year	District Population	Per Capita Generation Rate	Total Residential/Commercial Waste Generation (TPY)
2013	164,743	5.50	165,332
2014	164,258	5.45	163,362
2015	163,774	5.40	161,414
2016	163,289	5.40	160,936
2017	162,804	5.44	161,745
2018	162,319	5.49	162,546
2019	161,835	5.53	163,340
2020	161,350	5.57	164,125
2021	160,677	5.62	164,711
2022	160,004	5.66	165,285
2023	159,331	5.70	165,849
2024	158,658	5.75	166,402
2025	157,985	5.79	166,945
2026	157,313	5.83	167,477
2027	156,640	5.88	167,999
2028	155,967	5.92	168,509
2029	155,294	5.96	169,010
2030	154,621	6.01	169,499
2031	153,992	6.05	170,026

Source(s) of information:

District Population- Table V-1

Per Capita Generation Rate- IV-8 (2013)

Sample calculation (2013):

(District population x per capita generation rate (lb/person/day) x 365 days) ÷ 2,000 lbs =
Total residential/commercial generation (tons)

(164,743 x 5.50 x 365) ÷ 2,000 = 165,332 tons

**Table V-3
Projected Industrial Waste Generation**

SIC Category	Year																		
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
20	12,538	12,544	12,551	12,558	12,565	12,572	12,578	12,585	12,591	12,598	12,604	12,610	12,617	12,623	12,629	12,636	12,642	12,648	12,655
22	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
23	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
24	6,962	6,966	6,970	6,973	6,977	6,981	6,985	6,988	6,992	6,995	6,999	7,002	7,006	7,009	7,013	7,016	7,020	7,023	7,027
25	5,703	5,706	5,709	5,712	5,715	5,718	5,721	5,725	5,727	5,730	5,733	5,736	5,739	5,742	5,745	5,747	5,750	5,753	5,756
26	4,495	4,497	4,500	4,502	4,505	4,507	4,510	4,512	4,514	4,517	4,519	4,521	4,523	4,526	4,528	4,530	4,532	4,535	4,537
27	2,673	2,674	2,675	2,677	2,678	2,680	2,681	2,683	2,684	2,685	2,687	2,688	2,689	2,691	2,692	2,693	2,695	2,696	2,697
28	4,503	4,505	4,508	4,510	4,513	4,515	4,517	4,520	4,522	4,524	4,527	4,529	4,531	4,533	4,536	4,538	4,540	4,542	4,545
29	362	362	362	363	363	363	363	363	364	364	364	364	364	365	365	365	365	365	365
30	12,866	12,873	12,880	12,887	12,894	12,901	12,908	12,915	12,922	12,928	12,935	12,941	12,947	12,954	12,960	12,967	12,973	12,980	12,986
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	16,480	16,489	16,497	16,506	16,515	16,524	16,533	16,542	16,550	16,559	16,567	16,575	16,583	16,592	16,600	16,608	16,617	16,625	16,633
33	2,322	2,323	2,324	2,325	2,327	2,328	2,329	2,330	2,331	2,333	2,334	2,335	2,336	2,337	2,338	2,340	2,341	2,342	2,343
34	13,345	13,353	13,360	13,367	13,374	13,381	13,389	13,396	13,402	13,409	13,416	13,423	13,429	13,436	13,443	13,449	13,456	13,463	13,470
35	10,416	10,422	10,428	10,433	10,439	10,445	10,450	10,456	10,461	10,466	10,472	10,477	10,482	10,487	10,493	10,498	10,503	10,508	10,514
36	41,786	41,808	41,831	41,854	41,876	41,899	41,921	41,944	41,965	41,986	42,007	42,028	42,049	42,070	42,091	42,112	42,133	42,154	42,175
37	1,534	1,535	1,536	1,536	1,537	1,538	1,539	1,540	1,541	1,541	1,542	1,543	1,544	1,544	1,545	1,546	1,547	1,548	1,548
38	653	653	653	654	654	654	655	655	655	656	656	656	657	657	657	658	658	658	659
39	191	191	191	191	191	191	191	191	191	192	192	192	192	192	192	192	192	192	192
Totals	136,916	136,990	137,064	137,138	137,212	137,286	137,360	137,434	137,503	137,571	137,640	137,709	137,778	137,847	137,916	137,985	138,054	138,123	138,192

Source(s) of information:

Generation by SIC Code for 2013 from Table IV-2 adjusted to correspond to total industrial waste on Table IV-8

Projected annual increase - Ohio Department of Job and Family Services, *Regional Manufacturing Population from Jobs Ohio Regions to 2020: Northwest Ohio*. Web. Accessed February, 2015.

Sample calculation (2014):

2013 Industrial generation x 1.00054 = 2014 generation

136,916 tons x 1.00054 = 136,990 tons

Table V-4
Total Waste Generation for the District During the Planning Period
(in TPY)

Year	Residential/ Commercial	Industrial	Exempt	Total Waste	Generation Rate (lbs/person/day)
2013	165,332	136,916	35,906	338,155	11.25
2014	163,362	136,990	37,011	337,363	11.25
2015	161,414	137,064	38,116	336,594	11.20
2016	160,936	137,138	39,221	337,296	11.25
2017	161,745	137,212	39,221	338,178	11.31
2018	162,546	137,286	39,221	339,053	11.38
2019	163,340	137,360	39,221	339,921	11.44
2020	164,125	137,434	39,221	340,781	11.50
2021	164,711	137,503	39,221	341,435	11.56
2022	165,285	137,571	39,221	342,078	11.62
2023	165,849	137,640	39,221	342,711	11.69
2024	166,402	137,709	39,221	343,333	11.76
2025	166,945	137,778	39,221	343,944	11.83
2026	167,477	137,847	39,221	344,545	11.90
2027	167,999	137,916	39,221	345,136	11.97
2028	168,509	137,985	39,221	345,715	12.04
2029	169,010	138,054	39,221	346,284	12.11
2030	169,499	138,123	39,221	346,843	12.19
2031	170,026	138,192	39,221	347,439	12.26

Source(s) of information:

Residential/Commercial Table V-2

Industrial Table V-3

Exempt (2013) - Table IV-8

Exempt Waste in 2016 is projected as the average reported from 2009-2013. A straight line projection for intermediate years was calculated. Tonnage is projected to remain flat from 2016 to 2025.

Sample calculation (2013):

Total waste = Residential/commercial + industrial + exempt

338,154 tons = 165,332 tons + 136,916 tons + 35,906 tons

$$\text{Generation rate (lb/person/day)} = \frac{\text{Total waste generated (tons)} \times 2,000 \text{ pounds per ton}}{\text{Population} \times 365 \text{ days/year}}$$

$$11.25 = \frac{338,155 \text{ tons} \times 2,000 \text{ pounds per ton}}{164,743 \text{ residents} \times 365 \text{ days}}$$

**Table V-5
Residential/Commercial Waste Reduction Strategies**

Program	Program #	Type of Material Reduced and/or Recycled	Tons of Waste Reduction																			
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
Reduction via Incineration/Waste-to-Energy Processes																						
Waste Reduction via Incineration	N/A	M/SW	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27
Subtotal			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential/Commercial Recycling and Collection Programs																						
Curb-side Recycling	OSS-1	AC, GL, PL, ONP, OCC, SC, Pbd.	1,341	1,450	1,760	2,186	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
Drop-Off Recycling	OSS-2	AC, GL, PL, ONP, OCC, SC, Pbd.	2,709	2,701	2,693	2,685	2,677	2,669	2,661	2,653	2,642	2,631	2,620	2,609	2,598	2,587	2,576	2,565	2,554	2,543	2,532	2,532
Yard Waste Management	OSS-3	YW	21,768	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247
Household Hazardous Waste Management Program	OSS-4	HHW, ST	125	125	124	124	124	123	123	122	122	121	120	120	119	119	118	118	117	117	117	117
Scrap Tire Collection	OSS-5	ST	83	83	83	82	82	82	82	81	81	81	80	80	79	79	79	78	78	78	78	78
Lead-Acid Battery Management	OSS-6	LAB	77	77	77	77	76	76	76	76	75	75	74	74	74	73	73	73	73	73	73	72
Appliance Collection	OSS-7	WG	23	23	23	23	23	23	23	23	23	22	22	22	22	22	22	22	22	22	22	22
Electronics Collection	OSS-8	EW	82	84	86	88	91	91	92	92	93	93	94	94	95	96	96	97	97	97	97	98
Material Recovery Facilities	OSS-9	AC, GL, PL, ONP, OCC, SC, Pbd.	5,954	5,936	5,919	5,901	5,884	5,866	5,849	5,831	5,807	5,783	5,758	5,734	5,710	5,685	5,661	5,637	5,612	5,588	5,568	5,565
Litter Collection	OSS-15	Varies	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Beach and River Clean-Ups	OSS-16	Varies	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tires recycled from non-district collection events	N/A	ST	1,554	1,549	1,545	1,540	1,536	1,531	1,526	1,522	1,515	1,509	1,503	1,496	1,490	1,484	1,477	1,471	1,465	1,458	1,452	1,452
Commercial box stores reporting directly to Ohio EPA	N/A	AC, GL, PL, SC, MxP, FW, Oth	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513
Other Reported Commercial Recycling from Surveys (Not Linked to District Programming)	N/A	Varies	6,919	6,899	6,878	6,858	6,838	6,817	6,797	6,777	6,748	6,720	6,692	6,663	6,635	6,607	6,579	6,550	6,522	6,494	6,467	6,467
Subtotal			42,143	47,692	47,952	48,330	48,594	48,543	48,493	48,442	48,371	48,300	48,229	48,159	48,088	48,017	47,946	47,875	47,805	47,734	47,668	47,668
Grand Totals			42,143	47,692	47,952	48,330	48,594	48,544	48,493	48,442	48,371	48,300	48,230	48,159	48,088	48,017	47,947	47,876	47,805	47,734	47,668	47,668

AC = Aluminum Containers; GL = Glass Containers; PL = Plastic Containers; ONP = Old Newspaper; OCC = Corrugated Cardboard; SC = Steel Containers; Pbd = Paperboard; MxP = Mixed Paper; ST = Scrap Tires; WG = White Goods/Appliances; Oth = Other, YW = Yard Waste, EW = Electronic Waste, n/a = not applicable

Source(s) of information:
District records, Annual District Reports

Sample calculation (2014):

2014 Drop-off recycling tonnage = 2013 Drop-off recycling tonnage + (2013 Drop-off recycling tonnage x -0.295%)
2,701 tons = 2,709 tons + (2,709 tons x 0.295%)

**Table V-6
Industrial Waste Reduction Strategies**

Strategy	Program #	Type of Material Reduced/Recycled	Tons of Source Reduction/Recycling																			
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
Reduction via Incineration/Waste-to-Energy Processes																						
Waste Reduction via Incineration	N/A	MSW	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	534	535	
Subtotal			516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	534	535	
Industrial Sector Technical Assistance and Education Programs: Recycling																						
Industrial Recycling	n/a	FM, NFM, PL, OCC,																				
		MxP, W, GL, R,	94,529	94,718	94,908	95,098	95,288	95,479	95,669	95,861	96,053	96,245	96,437	96,630	96,823	97,017	97,211	97,405	97,600	97,795	97,991	
		FW, XS, WG, Oth																				
Subtotal			94,529	94,718	94,908	95,098	95,288	95,479	95,669	95,861	96,053	96,245	96,437	96,630	96,823	97,017	97,211	97,405	97,600	97,795	97,991	
Total			95,045	95,235	95,426	95,617	95,808	95,999	96,191	96,384	96,577	96,770	96,963	97,157	97,351	97,546	97,741	97,937	98,133	98,329	98,526	

FM=Ferrous Metals; NFM=Non-Ferrous Metals; PL= Plastic; OCC=Cardboard; MxP=Mixed Paper; W=Wood; GL=Glass; R=Rubber; FW=Food Waste; XS=Non-Exempt Foundry Sand; WG=Appliances; Oth=Other

Source(s) of information:

2013 tons - Table IV-6

Average rate of annual increase (0.4%) calculated using 2011-2013 ADR Review Forms

Sample calculation (2014): Tons of industrial recycling in previous year x rate of change in industrial recycling = Tons of recycling in estimated year

$$94,529 \text{ tons} \times 1.002 = 94,718 \text{ tons}$$

VI. Methods of Management: Facilities and Programs to be Used [ORC Section 3734.53(A)(7)-(12)]

This section of the *Plan Update* demonstrates that the District has capacity through facilities and its programs to manage the waste generated for the planning period. A regional capacity analysis provides information to demonstrate the District meets or exceeds capacity requirements under Ohio law. The District will continue to exercise flow control provisions (to direct waste to appropriate facilities). The designation of facilities is a power granted to SWMDs under Ohio law allowing the District to designate where solid waste generated within or transported into the District shall be taken for disposal, transfer, resource recovery, or recycling.

Additionally, this section of the *Plan Update* includes a detailed siting strategy for new proposed facilities.

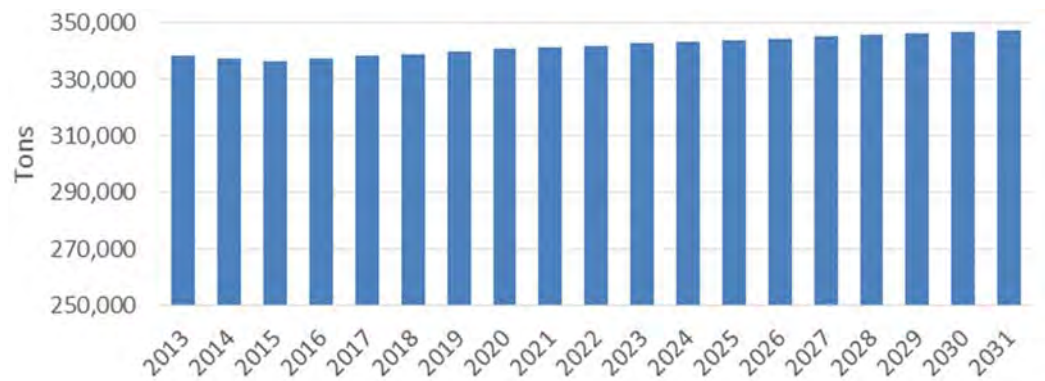
A. District Methods for Management of Solid Waste

Table VI-1 presents the waste management methods used and capacity needed for each year of the planning period. The District managed approximately 338,155 net tons of solid waste in 2013. Approximately 338,178 net tons of solid waste will need to be managed in 2017 (the first year of the planning period) and 347,439 net tons will need to be managed by 2031 (the final year of the planning period). The net tons to be managed annually is expected to increase 9,260 tons, or 2.7% from 2017 to 2031.

The District will manage the projected waste through recycling, yard waste composting, incineration, the use of transfer stations, and landfilling. In Table VI-1, the total tons landfilled in 2013 (200,966 tons) was calculated by subtracting recycling, yard waste composting, and the volume of waste reduced by incineration. The District projects a need of 193,776 tons of landfill capacity in 2017 and 201,245 tons in 2031.

The following figure shows the projected total net tons to be managed by the District throughout the planning period.

2013 – 2031 Net Tons to be Managed by the District



The following figure shows the projected tons to be landfilled throughout the planning period.

**Total Landfill Tons to be Managed by the District
(2013 – 2025)**

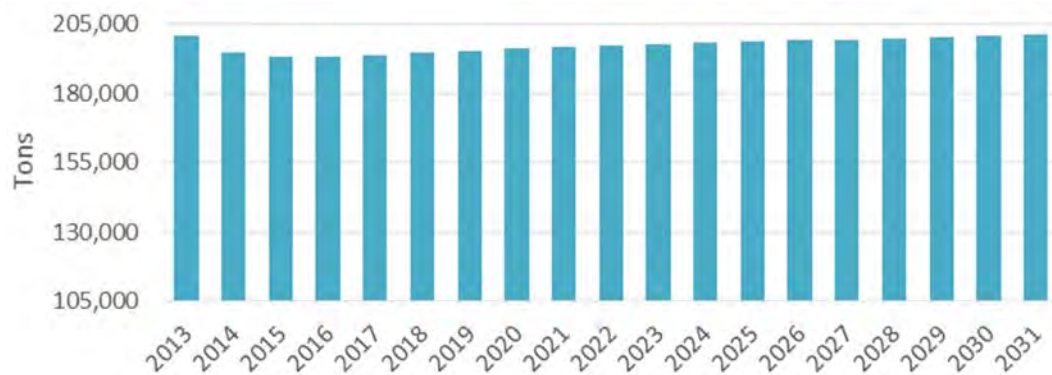


Table VI-2 presents a summary of waste management methods for residential/commercial solid waste generated by the District. Recycling, yard waste composting, transferring, incineration, and landfilling. In 2013, the residential/commercial sector generated a total of 165,332 tons. This sector is projected to generate 161,745 tons of solid waste at the beginning of the planning period and 170,026 tons of solid waste by the end of the planning period. Total annual waste generation will increase 8,281 tons or 5.1% from 2017 to 2031.

The following figure presents the management methods used to manage residential/commercial waste generation throughout the planning period.

2013 – 2031 Residential/Commercial Sector Waste Management Methods

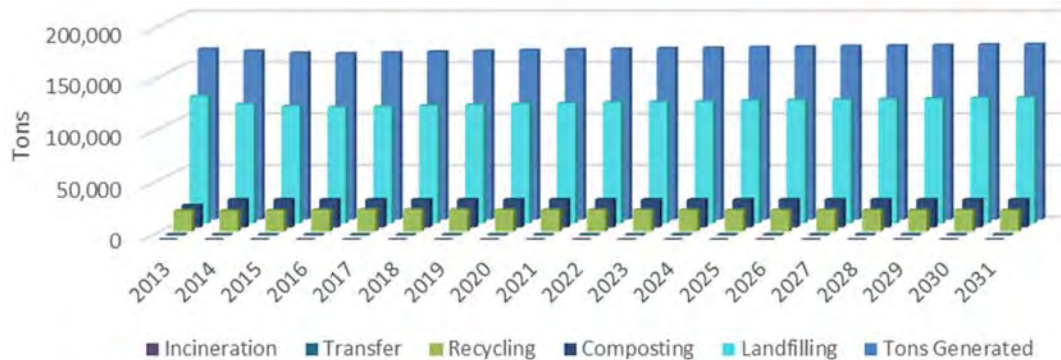


Table VI-3 presents a summary of waste management methods for industrial solid waste generated by the District. This sector’s waste was managed by recycling, incineration, and landfilling. In 2013, the industrial sector generated a total of 136,916 tons. The industrial sector is projected to generate 137,212 tons of solid waste at the beginning of the planning period and 138,192 tons of solid waste by the end of the planning period. Total annual waste generation will increase 980 tons or 0.7% from 2017 to 2031.

The following figure presents the management methods used to manage industrial waste generation throughout the planning period.

2013 – 2031 Industrial Sector Waste Management Methods

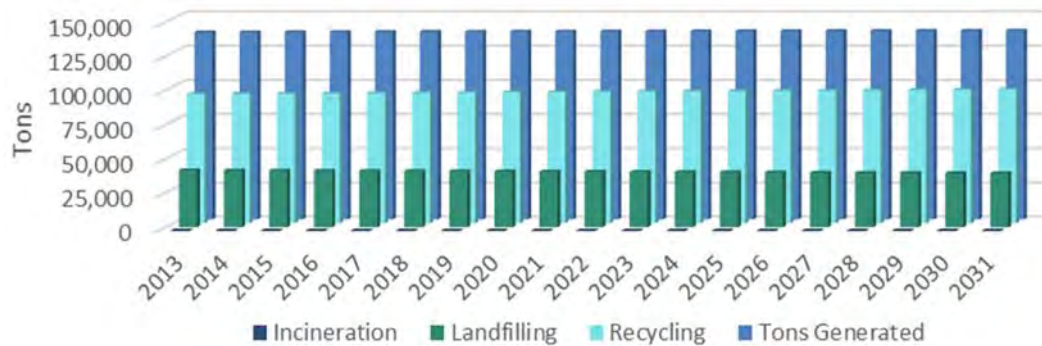


Table VI-4A, “Waste Management Method: Landfill,” presents the reference year landfill capacity utilization and anticipated landfill capacity needs throughout the planning period. The projections in Table VI-4A present the landfill capacity demands from 2013 to 2031. Total tons landfilled includes waste that was directly hauled to landfills, transferred waste, and ash produced through incineration.

There were eight landfills designated to receive all District generated solid waste during the reference year. In addition to the eight designated facilities, there was one industrial solid waste landfill located in the District that received waste and six other landfills that received waste that was first accepted at transfer stations or incinerators. The District does not anticipate changes to this designation throughout the planning period. For the purposes of the analysis in Table VI-4A and future year projections on landfill capacity, the District assumes that each facility that managed District waste during the reference year will manage the same percent of total tons as during the reference year unless a landfill ceases operations or runs out of permitted airspace before the end of the planning period.

The in-district landfills, which include two municipal solid waste (MSW) landfills and one industrial solid waste landfill, have sufficient remaining airspace to manage 100% of the District's landfilling needs throughout the planning period, but are projected to manage only 72% of the District's landfilled waste from 2013 to 2031. The remaining 28% of the District's landfill capacity needs will likely be provided by up to 13 other facilities listed in Table VI-4A.

Table VI-4B, "Waste Management Method: Incineration," presents the total tons projected to be managed by incineration throughout the planning period. The District used four incinerators in the reference year to manage 737 tons of waste which was largely generated by the industrial sector. For the purposes of the analysis in Table VI-4B and future projections, the District assumes that each facility that managed District waste during the reference year will manage the same percent of total tons as during the reference year. The total tons of residential/commercial sector waste managed by incineration are projected to change at the same rate as population. The total tons of industrial sector waste managed by incineration are projected to increase 0.2% annually. The overall tonnage managed by incineration annually from 2017 to 2031 is projected to increase 21 tons or 2.8%.

Table VI-4C, "Waste Management Method: Transfer," presents the total tons projected to be managed at transfer stations. In the first year of the planning period, the District projects approximately 1,057 tons of solid waste will be managed by one in-district and three out-of-district transfer facilities. This increases to 1,147 tons during the final year of the planning period. Transfer stations manage approximately 0.6% of the District's landfilled waste.

Table VI-4D, Waste Management Method: Recycling," presents the total tons projected to be managed by recycling. The District is projected to recycle an average of 117,538 tons of material annually throughout the planning period. In the first year of the planning period, the District projects

approximately 116,635 tons of materials will be recycled. This increases to 118,412 tons during the final year of the planning period.

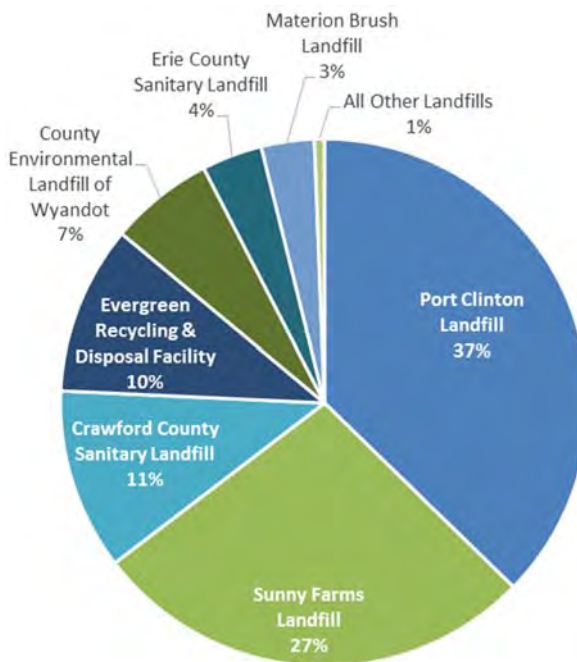
Table VI-4E, “Waste Management Method: Composting,” presents the total tons projected to be managed by composting. Composting was projected as a flat average of 27,247 tons annually from 2014 to 2031. The District does not anticipate any major changes to facilities or programs operating during the reference year.

B. Demonstration of Access to Capacity

During 2013, three in-district, 10 out-of-district, and three out-of-state landfills managed 200,966 tons of solid waste generated by District residents, businesses and industries.

The following figure presents the landfills used by the District in 2013, and the percentage of District-generated waste landfilled at each facility.

2013 Landfills Used by District



Regional Capacity Analysis

The purpose for the regional capacity analysis is to evaluate and demonstrate that the District has access to adequate disposal capacity during the planning period. The District’s assessment of regional landfill capacity demonstrates there is sufficient permitted capacity available to manage the District’s solid waste until December 31, 2031.

The District projects an average need of approximately 197,848 tons or 296,772 cubic yards of landfill capacity annually throughout the planning period. The District will dispose of approximately 2.97 million tons or 8.90 million cubic yards of solid waste. Using a 3:1 conversion factor for cubic yards to tons and applying an average 2:1 compaction ratio for landfilled solid waste, the District will need approximately 4.45 million cubic yards of airspace capacity over the fifteen year planning period.

The landfills used by the District in 2013 had sufficient permitted airspace to dispose of an estimated 316,197,457 tons of solid waste. The Port Clinton Landfill and Sunny Farms Landfill, which are both located within the District, each have enough permitted capacity to manage the entirety of the waste generated within the District from the reference year to the end of the planning period. Overall, the landfills used by the District in 2013 had an average remaining lifespan of more than 42 years.

C. Schedule for Facilities and Programs: New, Expansions, Closures, Continuations

Table VI-5, Implementation Schedule for Facilities, Strategies, Programs and Activities: Dates and Description, presents descriptions and dates of operation for each facility, program or activity presented in the *Plan Update*.

Programs for residential/commercial recycling, source reduction and awareness, the recycling, reuse and composting program, grants, industrial source reduction/recycling and awareness and other programs are presented in Table VI-5. These programs are discussed in detail in Sections IV and V.

D. Identification and Designation of Facilities

Table VI-6 includes the Facilities Identified and Current Designations. In the approved Plan under which the District is currently operating, the District is authorized to establish facility designations in accordance with Sections 343.013, 343.014, and 343.015 of the Ohio Revised Code. Through designation agreements, the District currently has designated the following facilities as the only facilities to which municipal solid waste generated in the District may be taken:

Designated Facilities - ORC 343.14	
Port Clinton Landfill, Inc.	Ottawa County, OH
Sunny Farms Landfill	Seneca County, OH
Crawford County Sanitary Landfill	Crawford County, OH
Erie County Landfill	Erie County, OH
Evergreen Recycling & Disposal Facility	Wood County, OH
Hancock County Landfill	Hancock County, OH
Huron County Transfer Station	Huron County, OH

Designated Facilities - ORC 343.14	
Wood County Landfill	Wood County, OH
County Environmental Landfill of Wyandot	Wyandot County, OH

Each of these facilities has signed a designation agreement with the District. Representative copies of the designation agreements are included in Appendix H of this Plan.

E. Authorization Statement to Designate

The Board of Directors of the District is hereby authorized to establish facility designations in accordance with Sections 343.013, 343.014, and 343.015 of the Ohio Revised Code. The facilities listed above in Section VI.D of this Section are the only facilities designated for the disposal or transfer of municipal solid waste generated in this District. Any solid waste transfer, disposal, recycling or resource recovery facilities that are not designated will require designation or a waiver to accept solid waste generated within the District.

F. Waiver Process for the Use of Undesignated Facilities

The Board of Directors of the District developed the procedure established in a resolution adopted by the Board of Directors, September 26, 1994, and set forth in Appendix I, for a waiver process to allow exempt or other wastes to be disposed of at facilities other than those designated under Section E of this chapter.

The Ohio Revised Code provides that any person may apply for a waiver and states the findings necessary for Board approval of a waiver request. To parallel the statutory provisions regarding the consideration of a waiver request, the Waiver Process for the Use of Undesignated Facilities is revised. This Waiver Process clarifies those persons who may request a waiver and requests additional information be provided by the person requesting a waiver and requires that the person requesting the waiver explain the basis for the Board to grant the requested waiver. Any person or the legislative authority of a municipal corporation or township may request a waiver authorizing the delivery of solid waste generated within the District to an undesignated solid waste transfer, disposal, recycling or resource recovery facility. The waiver request shall include the following:

1. The name, address, telephone number and email address of the person requesting the waiver.
2. The source and name of the generator of the solid waste included in the waiver request.

3. The name, address, telephone number and email address of the undesignated solid waste transfer, disposal, recycling or resource recovery facility where solid waste generated within the District will be delivered if the waiver is approved by the Board.
4. The estimated annual tonnage of the solid waste that will be delivered to the undesignated solid waste transfer, disposal, recycling or resource recovery facility covered by the waiver request.
5. An explanation describing how approval of the waiver request is not inconsistent with the projections contained in the District's initial or amended Plan under divisions (A)(6) and (7) of section 3734.53 of the Revised Code.
6. An explanation describing how the approval of the waiver request will not adversely affect implementation and financing of the District's initial or amended Plan pursuant to the implementation schedule contained in the District's initial or amended Plan under division (A)(12)(a) of section 3734.53 of the Revised Code.

Any waiver granted by the Board shall be included in a waiver agreement by and between the Board and the person granted the waiver. The waiver agreement shall contain the terms and conditions upon which the waiver was granted and the payment by the grantee of the waiver fee, if any, assessed on each ton of solid waste covered by the waiver.

G. Siting Strategy for Facilities

This Plan authorizes the Board to adopt rules pursuant to Section 343.01(G)(2) of the Revised Code prohibiting any person, municipal corporation, township, or other political subdivision from constructing, enlarging, or modifying any solid waste facility until general plans and specifications for the proposed improvement have been submitted to and approved by the Board as complying with the Plan. The District does not, as a part of this Plan, intend to site any District owned or operated facilities for the transfer or disposal of municipal solid waste. In the event the Board adopts rules requiring the approval of general plans and specifications for proposed solid waste facilities, the following addresses the possibility that another party proposes to site a transfer, disposal, recycling or resource recovery, or other solid waste facility in any location that is located in this District.

The District Board of Directors shall review general plans and specifications and determine whether the solid waste facility proposal complies with the Plan. If the Board decides that it will facilitate the review process, the Board may appoint a Siting Committee within sixty days of receipt of plans and specifications. The Siting Committee may include the individuals, or their

representatives listed herein, in addition to any other individuals that the Board determines would provide information relevant to the Board's determination of whether the proposed solid waste transfer, disposal, recycling or resource recovery facility or a proposal to modify an existing facility complies with the Plan. The Board may designate a Committee Chair, who will be responsible to facilitate the work of the Siting Committee and to prepare a report to the Board if requested.

The Siting Committee may include the following representatives:

- A representative from each of the three County Boards of Commissioners;
- A representative of each County Board of Health; and
- A representative of each County Planning Commission.
- If a location proposed for the facility is within a township or townships, the Board may appoint at least one trustee from the proposed host township(s).
- If the proposed location is within a municipality, at least one municipal official from that municipality may be appointed to the Siting Committee.
- The use of a consultant and/or support for the committee by District staff or other staff from any of the counties may be considered.

The purpose of the Siting Committee is to assemble and organize information relevant to the Board's determination and to forward that information to the Board for use in making its determination. The Siting Committee has no decision making authority. The Board may require the Siting Committee to prepare a report summarizing the information it has compiled. The information may include the following:

1. The District Solid Waste Management Plan;
2. Current Ohio and U.S. EPA rules and regulations governing the siting of the appropriate type of facility;
3. Maps and data for the county showing political jurisdictions, natural features such as rivers, streams, wetlands, flood plains, watershed and aquifer boundaries, geology, and topography;

4. Maps and data for the county showing land use, such as public and private utilities, archeological and historical sites, parks and recreation areas, threatened species habitat, transportation patterns, airports, etc.; and
5. Zoning maps.

The Siting Committee, upon appointment, shall conduct its data compilation duties within sixty to ninety days. The Board may grant the Siting Committee an additional thirty days to fulfill its obligation.

H. Contingencies for Capacity Assurance and District Program Implementation

The District has assessed the recycling processing capacity in the District and within reasonable transportation distances and finds that there is both private recycling processing capacity and capacity owned and operated by other solid waste Districts which could be utilized to process the materials collected through the District drop-off program. If, for any reason, one or more of the service providers that the District presently utilizes is unable or unwilling to provide the service the District requires, the District will immediately seek to enter into agreements with other businesses or solid waste districts to provide the necessary services based on the following procedure.

The District will implement the contingency plan outlined in this Section of the *Plan Update* if there is an interruption in composting, recycling, transfer facility or landfill capacity for a period of time that would be detrimental to the health and safety of District residents. If the Board determines there is a public health and safety threat due to an interruption in landfill capacity, the following will be implemented:

1. The District will conduct a survey to determine the solid waste disposal needs for District political jurisdictions, commercial, industrial and institutional companies/facilities. If after completing the survey the District Director determines that it is in the best interests of the political jurisdictions, commercial facilities, industries and institutions to allow them the opportunity to bid their waste to the company with the best service and price, the District Director will make the recommendation to the Board to take no further action. If the Board receives input from the surveys that some action is needed, then the following should be considered as part of the management contingency for District solid waste.
2. After considering the results of the survey, the Board of Directors may elect to pursue any of the following:

- a. Prepare a bid specification to solicit bids from regional landfills to accept District solid waste.
- b. Develop a District-wide disposal cooperative with local political jurisdictions to obtain a fixed disposal price for a specified term.
- c. Initiate action to site either a public or private solid waste transfer or solid waste disposal facility.

The District Director will make a recommendation to the Board on the course of action to take within 120 days of confirmation of an interruption of landfill capacity. Additionally, the District will develop an alternative source of revenue if there is an interruption in landfill capacity. The Board will direct the District Director to develop alternatives for revenue generation to assure program implementation as part of the management plan for the disposal of District solid waste.

**Table VI-1
Waste Management Methods Used and Processing Capacity Needed for Each Year of the Planning Period**

Year	Tons of SW Generated	Tons Source Reduced	Net Tons to be Managed by SWMD	Management Method Used and Processing Capacity Required in TPY					
				Recycling	Transfer	Yard Waste Composting	Gross Incineration	Waste Reduced by Incineration	Landfilling
2013	338,155	0	338,155	114,915	1,151	21,758	737	516	200,966
2014	337,363	0	337,363	115,164	1,080	27,247	739	517	194,436
2015	336,594	0	336,594	115,613	1,060	27,247	740	518	193,216
2016	337,296	0	337,296	116,181	1,052	27,247	742	519	193,349
2017	338,178	0	338,178	116,635	1,057	27,247	743	520	193,776
2018	339,053	0	339,053	116,775	1,065	27,247	745	521	194,510
2019	339,921	0	339,921	116,916	1,073	27,247	746	522	195,237
2020	340,781	0	340,781	117,056	1,080	27,247	748	523	195,955
2021	341,435	0	341,435	117,177	1,087	27,247	749	524	196,487
2022	342,078	0	342,078	117,298	1,093	27,247	751	525	197,008
2023	342,711	0	342,711	117,420	1,099	27,247	752	526	197,518
2024	343,333	0	343,333	117,542	1,104	27,247	754	527	198,017
2025	343,944	0	343,944	117,665	1,110	27,247	755	529	198,505
2026	344,545	0	344,545	117,787	1,115	27,247	757	530	198,982
2027	345,136	0	345,136	117,911	1,120	27,247	758	531	199,448
2028	345,715	0	345,715	118,034	1,125	27,247	760	532	199,903
2029	346,284	0	346,284	118,158	1,129	27,247	761	533	200,347
2030	346,843	0	346,843	118,283	1,134	27,247	763	534	200,780
2031	347,439	0	347,439	118,412	1,139	27,247	764	535	201,245

Source(s) of information:

- Tons of SW Generated - Table V-4
- Tons Waste Reduction and Yard Waste Composting - Tables V-5 and V-6
- Tons Transferred - Tables III-2 and VI-2
- Tons of Gross Incinerated and Waste Reduced by Incineration - Tables VI-2 and VI-3

Sample calculation:

2013 Net tons to be managed by SWMD = Tons of SW generated - tons source reduced
 338,155 tons = 338,155 tons - 0 tons

2013 Landfilling = Net tons to be managed by SWMD - (recycling + yard waste composting) - waste reduced by incineration
 200,966 tons = 338,155 tons - (114,915 tons + 21,758 tons) - 516 tons

**Table VI-2
Summary for Residential/Commercial Waste Management Methods**

Year	Tons Generated	Management Method in TPY						
		Recycling	Gross Incineration	Waste Reduced by Incineration	Ash Produced from Incineration	Composting	Transfer	Landfilling
2013	165,332	20,385	0.42	0.29	0.13	21,758	1,150	123,189
2014	163,362	20,445	0.42	0.29	0.13	27,247	1,080	115,670
2015	161,414	20,706	0.42	0.29	0.13	27,247	1,059	113,462
2016	160,936	21,083	0.42	0.29	0.12	27,247	1,051	112,606
2017	161,745	21,348	0.42	0.29	0.12	27,247	1,057	113,151
2018	162,546	21,297	0.41	0.29	0.12	27,247	1,064	114,002
2019	163,340	21,246	0.41	0.29	0.12	27,247	1,072	114,847
2020	164,125	21,195	0.41	0.29	0.12	27,247	1,080	115,683
2021	164,711	21,125	0.41	0.29	0.12	27,247	1,086	116,339
2022	165,285	21,054	0.41	0.29	0.12	27,247	1,092	116,985
2023	165,849	20,983	0.41	0.28	0.12	27,247	1,098	117,619
2024	166,402	20,912	0.40	0.28	0.12	27,247	1,104	118,243
2025	166,945	20,841	0.40	0.28	0.12	27,247	1,110	118,857
2026	167,477	20,771	0.40	0.28	0.12	27,247	1,115	119,460
2027	167,999	20,700	0.40	0.28	0.12	27,247	1,121	120,052
2028	168,509	20,629	0.40	0.28	0.12	27,247	1,126	120,633
2029	169,010	20,558	0.40	0.28	0.12	27,247	1,132	121,204
2030	169,499	20,488	0.39	0.28	0.12	27,247	1,137	121,765
2031	170,026	20,421	0.39	0.27	0.12	27,247	1,142	122,358

Source(s) of information:

Tons Generated - Table V-2

Recycling, Waste Reduced by Incineration, and Composting - Table V-5

Sample calculation (2013):

Landfilling = Tons generated - recycling - waste reduced by incineration - composting

123,189 tons = 165,332 tons - 20,385 tons - 0.29 tons - 21,758 tons

**Table VI-3
Summary for Industrial Waste Management Methods**

Year	Tons Generated	Management Method in TPY				
		Recycling	Gross Incineration	Waste Reduced by Incineration	Ash Produced from Incineration	Landfilling
2013	136,916	94,529	737	516	221	41,871
2014	136,990	94,718	738	517	221	41,755
2015	137,064	94,908	740	518	222	41,638
2016	137,138	95,098	741	519	222	41,522
2017	137,212	95,288	743	520	223	41,404
2018	137,286	95,479	744	521	223	41,287
2019	137,360	95,669	746	522	224	41,169
2020	137,434	95,861	747	523	224	41,050
2021	137,503	96,053	749	524	225	40,926
2022	137,571	96,245	750	525	225	40,802
2023	137,640	96,437	752	526	225	40,677
2024	137,709	96,630	753	527	226	40,552
2025	137,778	96,823	755	528	226	40,426
2026	137,847	97,017	756	529	227	40,301
2027	137,916	97,211	758	530	227	40,174
2028	137,985	97,405	759	531	228	40,048
2029	138,054	97,600	761	532	228	39,921
2030	138,123	97,795	762	534	229	39,794
2031	138,192	97,991	764	535	229	39,666

Source(s) of information:

Tons Generated - Table V-4

Recycling and Waste Reduced by Incineration - Table V-6

Sample calculations (2013):

Landfilling = Tons generated - recycling - waste reduced by incineration

41,871 tons = 136,916 tons - 94,529 tons - 516 tons

Table VI-4A
Waste Management Method: Landfill

Facilities Used by District	County	Average Daily Waste (Tons)	Remaining Capacity Years	Airspace		Tons of District SW Managed																		
				Gross (YD ³)	Net (tons)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
						Data Source																		
Port Clinton Landfill	Ottawa	344	99.4	9,805,360	8,894,367	74,967	72,531	72,076	72,126	72,285	72,559	72,830	73,098	73,296	73,490	73,681	73,867	74,049	74,227	74,611	74,781	74,947	75,109	75,283
Matcon Brush Landfill	Ottawa	23	21	205,745	135,934	6,532	6,320	6,280	6,284	6,298	6,322	6,346	6,369	6,386	6,403	6,420	6,438	6,462	6,487	6,483	6,497	6,512	6,526	6,541
Sunny Farms Landfill	Seneca	3,773	23	32,421,923	24,582,302	54,877	53,094	52,761	52,797	52,914	53,114	53,312	53,508	53,654	53,796	53,935	54,072	54,292	54,475	54,655	54,829	55,000	55,167	55,331
Crawford County Sanitary Landfill	Crawford	727	10.5	2,551,232	2,091,174	22,360	21,634	21,498	21,513	21,560	21,642	21,723	21,803	21,862	21,920	21,977	22,032	0	0	0	0	0	0	0
Erie County Sanitary Landfill	Erie	477	32	5,376,144	4,787,071	7,446	7,204	7,158	7,163	7,179	7,206	7,233	7,260	7,280	7,299	7,318	7,336	7,354	7,372	7,389	7,406	7,423	7,439	7,456
Hancock County Sanitary Landfill	Hancock	425	34.5	5,817,101	4,123,171	469	453	451	451	452	454	455	457	458	459	461	462	463	464	465	466	467	468	469
Noble Road Landfill	Richland	3,206	9.9	9,990,500	8,292,100	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
Wood County Landfill	Wood	499	12.9	763,784	396,022	212	205	204	204	204	205	206	206	207	208	208	209	209	210	0	0	0	0	0
Evergreen Recycling & Disposal Facility	Wood	673	42.3	9,169,457	6,546,992	20,743	20,069	19,943	19,957	20,001	20,077	20,152	20,226	20,281	20,335	20,387	20,439	20,489	20,538	20,586	20,633	20,679	20,724	20,772
County Environmental Landfill of Wyandot	Wyandot	622	150.9	24,028,797	21,141,861	12,812	12,395	12,318	12,326	12,353	12,400	12,446	12,492	12,526	12,559	12,592	12,624	12,665	12,685	12,715	12,744	12,772	12,800	12,829
American Landfill	Stark	3,657	65.6	82,266,252	68,856,853	10	10	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Carbon Limestone	Marioning	3,360	58.7	71,358,880	61,511,354	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05
Beech Hollow Landfill	Jackson	1,493	47.1	28,288,500	19,716,450	286	276	275	275	276	277	278	279	279	280	281	282	282	283	284	284	285	285	286
National Sen+All Landfill	Allen (IN)	1,982	30.02	34,702,590	19,565,935	31	30	30	30	30	30	30	30	30	30	31	31	31	31	31	31	31	31	31
Southside Landfill	Marion (IN)	2,452	28.3	41,062,411	21,655,176	220	212	211	211	212	213	213	214	215	215	216	216	217	217	218	218	219	219	220
Newton County Landfill	Newton (IN)	6,968	20.65	83,230,566	44,900,696	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total				441,039,241	316,197,457	200,966	194,436	193,216	193,349	193,776	194,510	195,237	195,955	196,487	197,008	197,518	198,017	198,505	198,982	199,446	199,903	200,347	200,780	201,245

Note: Reflects tonnage directly hauled, transferred, and ash disposed at landfills as a result of incineration.

Source(s) of information:

- 2013 tons - Table III-1
- 2014 - 2025 tons - Table VI-1
- Projected value for each landfill is calculated as a ratio based on the 2013 distribution.
- Years of remaining capacity as of 12/31/2013 based on the 2013 rate of receipts in 2013 Ohio EPA Facility Data Report.
- 2012 Indiana Municipal Solid Waste (MSW) Landfill Capacity & Estimated Life

Sample calculation:

$$\text{Port Clinton Landfill 2014} = \frac{\text{Port Clinton Landfill 2013}}{\text{Total 2013}} \times \text{Total 2014}$$

$$72,531 \text{ tons} = \frac{74,967 \text{ tons}}{200,966 \text{ tons}} \times 194,436 \text{ tons}$$

**Table VI-4B
Waste Management Method: Incinerator**

Facilities Used by District	County	Tons of District SW Managed																			
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
Stercycle	Geauga	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indianapolis Resource Recovery Facility	Marion (IN)	732	733	735	736	738	739	741	742	744	745	746	748	749	751	752	754	755	757	758	758
Medassure of Indiana Treatment Facility	Marion (IN)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Tradebe Treatment and Recycling	Lake (IN)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Totals		737	739	740	742	743	745	746	748	749	751	752	754	755	757	758	760	761	763	764	764

Table VI-4C
Waste Management Method: Transfer

Facilities Used by District	County	Tons of District SW Managed																		
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Put-in-Bay/South Bass Island Transfer & Compost Facility	Ottawa	865	812	796	790	794	800	806	812	816	821	825	830	834	838	842	847	851	855	859
Delaware County Transfer Station	Huron	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Huron County Transfer Station	Huron	283	266	261	259	260	262	264	266	268	269	271	272	273	275	276	278	279	280	281
Lawrence County Transfer & Recycling Station	Lawrence	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Total		1,151	1,080	1,060	1,052	1,057	1,065	1,073	1,080	1,087	1,093	1,099	1,104	1,110	1,116	1,121	1,127	1,132	1,137	1,143

Source(s) of information:

- 2013 Tons - Table III-3
- 2014 - 2025 Tons - Table VI-1

Projected value for each transfer station is calculated as a ratio based on the 2013 distribution.

Sample calculation:

$$\text{Huron County Transfer Station 2014} = \frac{\text{Huron County Transfer Station 2013}}{\text{Total 2013}} \times \text{Total 2014}$$

$$266 \text{ tons} = \frac{283 \text{ tons}}{1,151 \text{ tons}} \times 1,080 \text{ tons}$$

**Table VI-4D
Waste Management Method: Recycling**

Facilities Used by District Name	County	Tons of District SW Managed																		
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Omniresource	Lucas	45,323	45,421	45,589	45,822	46,002	46,057	46,112	46,168	46,215	46,263	46,311	46,359	46,408	46,456	46,505	46,553	46,602	46,651	46,702
Rumpke	District-wide	11,589	11,614	11,659	11,717	11,763	11,777	11,791	11,805	11,817	11,829	11,842	11,854	11,866	11,879	11,891	11,904	11,916	11,929	11,942
Burns Iron & Metal	Sandusky	6,750	6,765	6,791	6,825	6,851	6,860	6,868	6,876	6,883	6,890	6,898	6,905	6,912	6,919	6,926	6,934	6,941	6,948	6,956
Kohart Recycling	Seneca	6,740	6,755	6,781	6,814	6,841	6,849	6,857	6,866	6,873	6,880	6,887	6,894	6,901	6,908	6,916	6,923	6,930	6,938	6,945
U.S. Gypsum Co.	Ottawa	6,628	6,642	6,668	6,701	6,727	6,735	6,743	6,752	6,758	6,765	6,772	6,780	6,787	6,794	6,801	6,808	6,815	6,822	6,830
ByProducts Sales & Distribution	Crawford	6,423	6,437	6,462	6,494	6,519	6,527	6,535	6,543	6,549	6,556	6,563	6,570	6,577	6,583	6,590	6,597	6,604	6,611	6,618
Fultz & Sons	District-wide	5,854	5,867	5,890	5,919	5,942	5,949	5,956	5,963	5,969	5,975	5,982	5,988	5,994	6,000	6,007	6,013	6,019	6,026	6,032
River Valley	Summit	3,298	3,305	3,318	3,334	3,347	3,351	3,355	3,359	3,363	3,366	3,370	3,373	3,377	3,380	3,384	3,388	3,391	3,395	3,398
Toledo Shredding	Lucas	3,226	3,233	3,246	3,262	3,274	3,278	3,282	3,286	3,290	3,293	3,296	3,300	3,303	3,307	3,310	3,314	3,317	3,321	3,324
Lima Pallet	Allen	2,336	2,341	2,350	2,362	2,371	2,374	2,377	2,380	2,382	2,384	2,387	2,389	2,392	2,394	2,397	2,399	2,402	2,404	2,407
Hammer Pallet Co.	Sandusky	2,000	2,004	2,012	2,022	2,030	2,032	2,035	2,037	2,039	2,041	2,044	2,046	2,048	2,050	2,052	2,054	2,056	2,059	2,061
Intergroup International	Cuyahoga	1,881	1,885	1,892	1,902	1,909	1,911	1,914	1,916	1,918	1,920	1,922	1,924	1,926	1,928	1,930	1,932	1,934	1,936	1,938
Strategic Materials	Licking	1,864	1,868	1,875	1,885	1,892	1,894	1,896	1,899	1,901	1,903	1,905	1,907	1,909	1,911	1,913	1,915	1,917	1,919	1,921
Genesis Recycling	Stark	1,311	1,314	1,319	1,325	1,330	1,332	1,334	1,335	1,337	1,338	1,339	1,341	1,342	1,344	1,345	1,346	1,348	1,349	1,351
Waste Management	District-wide	1,130	1,132	1,137	1,142	1,147	1,148	1,150	1,151	1,152	1,153	1,155	1,156	1,157	1,158	1,159	1,161	1,162	1,163	1,164
Republic	Seneca	1,032	1,034	1,038	1,043	1,047	1,049	1,050	1,051	1,052	1,053	1,054	1,056	1,057	1,058	1,059	1,060	1,061	1,062	1,063
Gateway Recycling	Lucas	984	986	990	994	998	999	1,001	1,002	1,003	1,004	1,005	1,006	1,007	1,008	1,009	1,010	1,011	1,012	1,013
Liberty Tire	District-wide	642	643	646	649	651	652	653	654	654	655	656	656	657	658	658	659	660	660	661
Manlyand Refractories	Jefferson	621	622	624	627	630	631	631	632	633	634	634	635	636	636	637	637	638	639	640
Kelley Tire Recycling	District-wide	555	557	559	562	564	564	565	566	566	567	568	568	569	569	570	570	571	572	572
Sandusky Steel	Sandusky	536	537	539	542	544	544	545	546	546	547	547	548	548	549	550	550	551	551	552
Enviro Tire Recycling	District-wide	300	300	302	303	304	305	305	305	306	306	306	307	307	307	308	308	308	309	309
CCC Camp Recycling	District-wide	270	270	271	273	274	274	274	275	275	275	276	276	276	276	277	277	277	278	278
B. Schoenberg & Co.	Stark	260	261	262	263	264	264	265	265	265	265	266	266	266	266	267	267	267	268	268
Buckeye Sanitation	Ottawa/ Sandusky	232	233	234	235	236	236	236	237	237	237	237	238	238	238	238	239	239	239	239
Aevitas Specialty Svc.	Wayne (MI)	232	233	233	235	235	236	236	236	237	237	237	237	238	238	238	238	239	239	239
Progressive Iron & Metal	Sandusky	190	191	191	192	193	193	193	194	194	194	194	194	195	195	195	195	195	196	196
Pipo	Huron	136	136	137	138	138	138	139	139	139	139	139	139	139	140	140	140	140	140	140
Elliot Scrapping	Wood	97	97	97	98	98	98	99	99	99	99	99	99	99	99	99	99	100	100	100

**Table VI-4D (continued)
Waste Management Method: Recycling**

Facilities Used by District Name	County	Tons of District SW Managed																		
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Lastique International	Jefferson (KY)	95	95	96	96	96	97	97	97	97	97	97	97	97	97	97	98	98	98	98
Lightner Tire Co.	Sandusky	75	75	75	75	76	76	76	76	76	76	76	76	76	76	76	77	77	77	77
State Paper & Metal	Lucas	69	69	70	70	70	70	70	70	70	70	70	71	71	71	71	71	71	71	71
Autozone	District-wide	61	61	62	62	62	62	62	62	62	62	62	63	63	63	63	63	63	63	63
ACME Electronics	Crawford	55	55	55	56	56	56	56	56	56	56	56	56	56	56	56	57	57	57	57
Riverview Industries	Ottawa	41	41	41	41	41	41	41	41	41	41	42	42	42	42	42	42	42	42	42
Crawford County	Crawford	35	35	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
Cyclone Services	Sandusky	34	34	34	34	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
BJ Pallet	Seneca	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	35
R Willig Tire	Sandusky	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	35
Greenleaf Waste	Washington	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Sandco Industries	Sandusky	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Precision Pallet	Lucas	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21	21	21	21
Bob's Tire Services	Ottawa/Sandusky	15	15	15	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
B&R Pallet	Seneca	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Sekisui Plastics	Hardin	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
NAPA Auto Parts	District-wide	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Recycling facilities used by commercial generators that report directly to Ohio EPA																				
Other recycling facilities used by the residential/commercial and industrial sectors																				
Total		114,915	115,164	115,613	116,181	116,635	116,775	116,916	117,056	117,177	117,298	117,420	117,542	117,665	117,787	117,911	118,034	118,158	118,283	118,412

Source(s) of information:

The total recycled is from Table VI-1.

Projected value for each Recycling Facility is calculated as a ratio based on the 2013 distribution

Sample calculation:

$$\text{Omnisource 2014} = \frac{\text{Omnisource 2013}}{\text{Total 2013}} \times \text{Total 2014}$$

$$45,421 \text{ tons} = \frac{45,323 \text{ tons}}{114,915 \text{ tons}} \times 115,164 \text{ tons}$$

Table VI-4E
Waste Management Method: Composting

Facilities Used by District	County	Tons of District SW Managed																			
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
Bio-Fill	Ottawa	193	241	241	241	241	241	241	241	241	241	241	241	241	241	241	241	241	241	241	
Catawba Island Twp.	Ottawa	4,400	5,510	5,510	5,510	5,510	5,510	5,510	5,510	5,510	5,510	5,510	5,510	5,510	5,510	5,510	5,510	5,510	5,510	5,510	
City of Fostonia Compost	Seneca	2,415	3,024	3,024	3,024	3,024	3,024	3,024	3,024	3,024	3,024	3,024	3,024	3,024	3,024	3,024	3,024	3,024	3,024	3,024	
Clyde Compost Facility	Sandusky	1,720	2,154	2,154	2,154	2,154	2,154	2,154	2,154	2,154	2,154	2,154	2,154	2,154	2,154	2,154	2,154	2,154	2,154	2,154	
Gibsonburg Compost Facility	Sandusky	665	833	833	833	833	833	833	833	833	833	833	833	833	833	833	833	833	833	833	
Lakeside Association	Ottawa	611	766	766	766	766	766	766	766	766	766	766	766	766	766	766	766	766	766	766	
Perry's Plantation	Sandusky	45	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	
Pump Landscaping & Garden Center	Sandusky	584	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	
Put-In-Bay, South Bass Island Facility	Ottawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sbema Stables & Farms	Sandusky	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tiffin WWTP	Seneca	182	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	
Universal Landscaping	Sandusky	836	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	
Village of Lindsey Compost Area	Sandusky	137	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	
Village of Woodville	Sandusky	566	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709	
Yard Waste Recovery - Barnes Nursery	Erie	2,741	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	
Sand Road Ent. Inc.	Huron	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
Hirzel Farms Organic Composting Operation	Wood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
City of Bellvue WWTP	Erie	99	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	
Village of Oak Harbor	Ottawa	49	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	
Danbury Township	Ottawa	1,168	1,463	1,463	1,463	1,463	1,463	1,463	1,463	1,463	1,463	1,463	1,463	1,463	1,463	1,463	1,463	1,463	1,463	1,463	
Village of Marblehead	Ottawa	61	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	
Sandusky Township	Sandusky	1,591	1,992	1,992	1,992	1,992	1,992	1,992	1,992	1,992	1,992	1,992	1,992	1,992	1,992	1,992	1,992	1,992	1,992	1,992	
City of Tiffin	Seneca	3,649	4,569	4,569	4,569	4,569	4,569	4,569	4,569	4,569	4,569	4,569	4,569	4,569	4,569	4,569	4,569	4,569	4,569	4,569	
Village of Put-In-Bay	Ottawa	28	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
Village of Clay Center	Ottawa	9	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
Total		21,758	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	27,247	

Note: Table includes yard waste only; food waste has been excluded from this table.

Source(s) of information:

2013 tons - Table III-6
2014 - 2025 tons - Table VI-1
Projected value for each facility is calculated as a ratio based on the 2013 distribution.

Sample calculation:

$$\text{Bio-Fill 2014} = \frac{\text{Bio-Fill 2013}}{\text{Total 2013}} \times \text{Total 2014}$$

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Curbside Recycling	OSS-1	District	As of 2015, there were nine non-subscription and three subscription curbside recycling programs operating; all are expected to continue. Each political subdivision is responsible for maintaining its own program within its jurisdiction.	Ongoing	Ongoing
Initiative OSS-1.1 <i>Curbside Recycling Program Promotion</i>			The District will implement targeted promotional activities to residents that have curbside recycling. Activities could include targeted mailings to residents, targeted cable TV ads, placement of billboards or mobile signs, handouts in community newsletters, community website messages, or using social media. The District will develop a marketing plan for the purpose of tailoring the messages to specific demographic groups. Targeted efforts will be implemented in three phases: cities with non-subscription curbside recycling (2017-2018), villages with non-subscription curbside (2019-2020), and subscription-based communities (2020-2022).	2017	2022
Initiative OSS-1.2 <i>Curbside Program Contract Management</i>			The District will work with the curbside recycling communities that have contracts with their haulers to make improvements. The District will first begin this initiative by developing a comprehensive contract management list for each community.	2017	2017

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Initiative OSS-1.3 <i>Targeting Communities with Expiring Contracts</i>			The District will target each community that has a contract ending within 8 months and begin working directly with the procurement office of the community. The goals of working directly with communities will be to improve contracts with haulers in the following areas: program education, expanded list of recyclables accepted, options to develop economic incentive options for residents, quarterly data reporting on recycling, and promotion of options for curbside organics management.	2017	2031
Initiative OSS-1.4 <i>Work with Communities to Reinstate Curbside Recycling Programs</i>			The District provides assistance to communities to avoid the unfortunate discontinuation of curbside recycling programs. However, in the event that a program ends, the District will work with the community to address issues that resulted in the program being discontinued and guide the community through the process of reinstating a curbside recycling program.	Ongoing	Ongoing
Drop-Off Recycling	OSS-2	District	Approximately 41 full-time drop-offs and three part-time drop-offs will continue operating. The District may relocate drop-offs or increase or decrease the total number of sites based on changes in the utilization of each site.	Ongoing	Ongoing
Initiative OSS-2.1 <i>Developing a Partnership for Drop-Off Management</i>			The District will create a partnership with a local non-profit organization to assist with the housekeeping and promotional activities at targeted high-use drop-off sites operated by the District. The District may provide possible donations to organizations that meet the service requirements. A manual for the partnership will be developed and a seminar will be held for interested organizations. The District will provide an online reporting mechanism for volunteers to enter data.	2017	2017

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Initiative OSS-2.2 <i>Implementation of Partnership Management Program</i>			The District, based on adequate participation from local non-profit organizations, will implement the program in 2018.	2018	Status to be evaluated 2021
Yard Waste Management	OSS-3	District	Yard waste management activities at registered compost sites and political subdivisions are expected to continue. Each private and public sector compost operation is responsible for their program or facility.	Ongoing	Ongoing
Household Hazardous Waste Management	OSS-4	District	The District will continue to host two annual HHW collection events in each District county.	Ongoing	Ongoing
Initiative OSS-4.1 <i>Promoting Reduction of Household Hazardous Waste Generation</i>			The District will aim to reduce the amount usable materials collected from the HHW program (i.e. paint products, household cleaners) by enhancing its education and awareness program.	2017	2031
Scrap Tire Collection	OSS-5	District	The District will continue to host an annual scrap tire collection event in each District county and one annual farm tire collection event. The District will continue to charge a reasonable user fee to participate.	Ongoing	Ongoing
Lead-Acid Battery Management	OSS-6	District	The District will accept lead-acid batteries (LABs) at its HHW collection events. The District will continue to promote LAB recycling by providing static stickers to retailers that accept batteries and posting a list of businesses that recycle LABs on its website. Promotions may also be done using news releases, radio spots and social media posts.	Ongoing	Ongoing
Initiative OSS-6.1 <i>Battery Survey</i>			The District will add a special battery survey instrument targeted to the businesses that accept batteries, which are listed on the District's web site. The surveys will be administered biannually.	2017	2017

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Initiative OSS-6.2 <i>Battery Handling Procedure</i>			The District will add to its web site specific procedures for the safe handling and transportation of lead-acid batteries to collection sites.	2018	2018
Appliance Collection	OSS-7	District	The District will hold at least one annual appliance collection event in each District county.	Ongoing	Ongoing
Electronics Collection	OSS-8	District	The District will hold two annual electronics collection events in each District county.	Ongoing	Ongoing
Initiative OSS-8.1 <i>Reviewing Practices of Electronics Recyclers Contracted by the District</i>			The District will review e-waste recyclers that manage computers and other electronic materials collected from District programs to ensure the end-use of materials is environmentally and socially acceptable. Based on the outcome of the evaluation, the District may change its procurement procedures for e-waste vendors. E-waste recyclers used by the District must have R2 certification.	2014	Ongoing
Material Recovery Facilities	OSS-9	District	The District will continue to operate the in-district MRF, the CCC Camp.	Ongoing	Ongoing
Initiative OSS-9.1 <i>Recycling Center Feasibility Evaluation</i>			The District will evaluate options for the Recycling Center during the plan period, including options to locate the recycling center closer to the District office or options for a location that would house both the recycling operations in a suitable building with office space at the same location.	2017	2031
Recycling Market Development Grant	OSS-10	District	The District identifies and contacts industries that may be ideal candidates for Ohio EPA's Recycling Market Development Grant. Technical assistance for preparing the grant application is provided to qualified interested candidates.	Ongoing	Ongoing

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Initiative OSS-10.1 <i>Targeted Market Development Grant Promotion</i>			The District will promote the opportunity on its website and in other publications, as well as develop a list of potential commercial and industrial companies that could be directly targeted to participate. The District will assist companies with their applications for funding when it is determined viable candidates for the funds have been identified.	2017	2031
Competitive Funding	OSS-11	District	The District will continue to provide financial assistance to local governments, educational institutions and non-profit organizations for solid waste programs. Grants will be competitive and awarded twice a year. Project requests will be limited to a maximum of \$10,000.	Ongoing	Ongoing
Initiative OSS-11.1 <i>Program Promotion</i>			The District will continue promote the program on its website and through other publications, as well developing a list of potential grantees that could be directly targeted. The District will continue to assist candidates with grant applications as well as revise the training provided to applicants in order to continually improve the quality of applications submitted.	Ongoing and 2018	2031
City and Village Funding (CVF)	OSS-12	District	The District will continue to provide funding to local governments to enhance or expand solid waste programs or to purchase recycled content products. Generally, the limits are \$8,500 for cities and \$3,000 for villages unless special requests are made.	Ongoing	Ongoing

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Education and Awareness	OSS-13	District	The District will continue its education and awareness program, which is mainly operated by three program specialists. The program will focus on youth education and teacher support (mascot, contests, classroom presentations, Earth Camp, and educator resources), adult education (workshops, civic presentations, and tours), publications (newsletters, fliers, and guides), and maintaining the website and social media accounts.	Ongoing	Ongoing
Initiative OSS-13.1 <i>Pro-Bono Environmental Educators</i>			The District will evaluate the feasibility of developing a partnership with local colleges to train student teachers to conduct District recycling presentations. The educators would conduct presentations for the District pro-bono in exchange for school credit. If feasible, the District will work with each college and university to develop the requirements and procedures for the educator cooperative and promote the program at the participating schools and train the candidates. The District will also work with local groups to help conduct presentations.	2019	2020
Commercial and Industrial Technical Assistance	OSS-14	District	The District will provide technical assistance and waste assessments to the commercial and industrial sector upon request. Additional resources will be available for businesses and industries upon request.	Ongoing	Ongoing
Initiative 14.1 <i>Recycling Program Development</i>			The District will work with the Chamber of Commerce and the Economic Development Corporation offices in each District county to develop programs that would benefit local business and industry. The District will also work with these agencies to promote the opportunities through newsletters and social media outlets.	2017	2031

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Litter Collection	OSS-15	District	The District will continue to contract with each county juvenile court to provide labor for litter collection activities throughout each District county. Crews will sort recyclables from waste during litter collection activities. Supplies such as gloves and bags will be provided by the District.	Ongoing	Ongoing
Beach and River Clean-Ups	OSS-16	District	The District will continue to support these programs by promoting them on its website and social media accounts. The District will also provide supplies such as safety vests, garbage bags, and gloves for volunteers.	Ongoing	Ongoing
Adopt-a-Road	OSS-17	District	The District will support the Adopt-a-Road program by conducting orientation and safety instruction for adopting groups upon request. The District will also provide orange Class II safety vests, disposable gloves, orange Adopt-A-Road bags, orange "workers ahead" safety signs, and an orange magnetic strobe light to groups for clean-up activities. Upon request, the District will collect and properly dispose of litter/debris. A certificate of recognition will be issued when an adopting group renews their contract.	Ongoing	Ongoing
Initiative OSS-17.1 <i>AAR Compliance Program</i>			The District will begin enforcing a compliance program. If groups do not meet program requirements by the third notification, the adopting group's signs will be removed and the existing contract will be null and void until regular clean-ups are being performed.	2017	2031

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Container Loan	OSS-18	District	Community groups, government offices, and non-profit organizations located in the District will continue to be able to borrow recycling containers for special events. The District will provide lids with labels and clear bags to program participants. The District will deliver and pick up containers if participant is unable.	Ongoing	Ongoing
Initiative OSS-18.1 <i>Late Container Fee</i>			The District will revise the container loan policy to include a late fee.	2018	2018
Initiative OSS-18.2 <i>Special Event Recycling Kit</i>			The District will develop a special event recycling kit that will be designed to assist special event recycling coordinators that may utilize the District's containers. The kit will include suggestions on how to reduce contamination in the recycling containers and to provide an environmentally successful event.	2019	2020
Health Department Financial Support	OSS-19	District	The District will continue to provide financial support for the Health Departments located in Sandusky and Seneca counties for the enforcement of solid waste rules, orders, permits, terms and conditions of permits and licenses for solid waste facilities located within the District. Funding may be adjusted depending upon the activities to be completed and the amount of District funds available.	Ongoing	Ongoing
Needle Disposal Campaign	OSS-20	District	The District will continue its educational campaign to educate residents on proper needle disposal to keep waste collectors safe. The campaign will continue to be promoted on the website and through social media and fliers.	Ongoing	Ongoing

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Initiative OSS-20.1 <i>Proper Needle Disposal Awareness</i>			The District will expand education and awareness of proper needle disposal through the District's web site and social media, publications and handouts as well as highlighting proper needle disposal during adult programs and presentations. Additionally, the District will distribute Proper Needle Disposal flyers and postcards to participating doctors' offices, pharmacies and hospitals.	2017	2031
Medication Take-Back	OSS-21	District	Permanent drop-off sites in local law enforcement agencies for residents to properly dispose of outdated, unwanted and unused prescription medications are expected to continue operating.	Ongoing	Ongoing
Disaster Debris Management	OSS-22	District	The District will continue to maintain a comprehensive disaster debris management manual for each of the counties within its jurisdiction. Training on the manual may be conducted on an as-needed basis.	Ongoing	Ongoing
Initiative OSS-22.1 <i>Regional Disaster Plan Review</i>			The District will evaluate other Ohio solid waste district disaster debris management plans and policies to determine if any improvements can be made.	2018	2019
Strategic Planning	OSS-23	District	The District will continue to complete an annual SWOT (Strengths, Weaknesses, Opportunities and Threats) analysis of its programs, initiatives, and infrastructure. The District will also identify its cooperative partners that assist with the implementation of its programs.	Ongoing	Ongoing

**Table VI-6
Facilities Identified and Current Designations**

Facilities Identified	
None	
Designated Facilities - ORC 343.14	
Facility	County
Port Clinton Landfill, Inc.	Ottawa County, OH
Sunny Farms Landfill	Seneca County, OH
Crawford County Sanitary Landfill	Crawford County, OH
Erie County Landfill	Erie County, OH
Evergreen Recycling & Disposal Facility	Wood County, OH
Hancock County Landfill	Hancock County, OH
Huron County Transfer Station	Huron County, OH
Wood County Landfill	Wood County, OH
County Environmental Landfill of Wyandot	Wyandot County, OH

VII. Measurement of Progress Toward Waste Reduction Goals [ORC Section 3734.53(A)]

The Ohio EPA *1995 State Plan* establishes seven goals solid waste management districts (SWMDs) are required to achieve in their solid waste management plans. These goals are as follows:

Goal #	Description
#1	Ensure the availability of reduction, recycling and minimization alternatives for municipal solid waste by ensuring 90% of residents have access to curbside and drop-off programs. The District must also demonstrate that there are adequate opportunities for industrial businesses to recycle.
#2	Reduce and/or recycle at least 25% of the total waste generated by the residential/commercial sector and 50% of the total waste generated by the industrial sector.
#3	Provide informational and technical assistance on source reduction.
#4	Provide informational and technical assistance on recycling, reuse, and composting opportunities.
#5	Strategies for scrap tires and household hazardous wastes.
#6	Annual reporting of plan implementation.
#7	Market development strategy (optional).

SWMDs are encouraged to meet Goal #1 and Goal #2, but are only required to demonstrate compliance with one goal or the other. Goals #3 through #6 are mandated goals to which SWMDs must demonstrate compliance, and Goal #7 is optional. This section will cover the goal selected by the District, its progress toward achieving the goal, and plans to maintain compliance throughout the planning period.

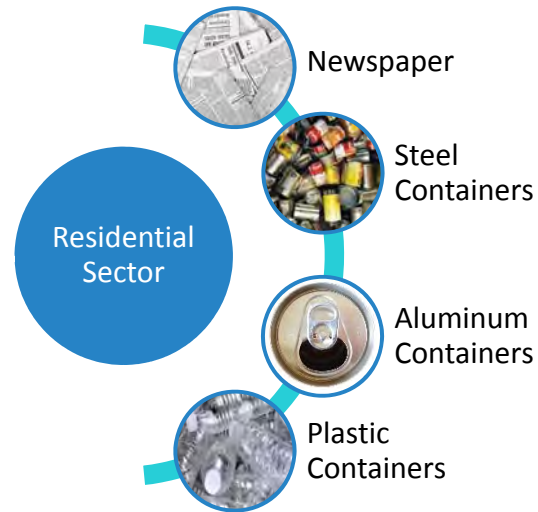
A. Compliance with Goal #1

The District will continue to comply with Goal #1 of the *1995 State Plan*, which states that the District will ensure the availability of recycling and other waste reduction methods that are alternatives to landfilling for residential/commercial solid waste.

B. Demonstration of Compliance with Goal #1

Table VII-1, Materials Designated to Demonstrate Compliance with Goal #1, presents four materials designated for the residential sector and four materials designated for the commercial/industrial sector. The four materials designated for the residential sector are newspaper, steel, aluminum and plastic containers.

Designated Materials for the Residential Sector



The four materials designated for the commercial/industrial sector are cardboard, office paper, aluminum containers and wooden pallets/ packaging.

Designated Materials for Commercial/Industrial Sector



1. Residential Sector

The Plan Format prescribes a formula for solid waste management districts to use to determine the percentage of the population which has access to curbside and drop-off recycling services. The types of services offered within the District are listed below and include an explanation of the population credit assigned to each type of service.

Non-Subscription Curbside Recycling

A solid waste district receives 100% population credit when all residential single family households receive curbside recycling service. In order to qualify, all residents must receive the curbside recycling service whether they use the service or not. Typically, payment for the service is made by the resident to the political subdivision or directly to the hauler or by the political subdivision through local taxes.

Subscription Curbside Recycling

A solid waste district receives 25% population credit when a subscription service is offered by waste haulers operating in the political subdivision. Subscription curbside recycling is a service that is paid directly by the resident similar to a magazine subscription. The resident chooses to subscribe to a hauler that provides the recycling service. The credit for subscription service can be higher than 25% if the District can demonstrate that more than 25% of households participate in the subscription service.

Recycling Drop-Offs

Each full-time recycling drop-off located in an urban area is credited with serving 5,000 persons. Full-time recycling drop-offs in rural areas are credited with serving 2,500 persons per location.

Rural areas are defined as any municipality or township with less than 5,000 in population. An urban area is defined as any municipality or township equal to or greater than 5,000 in population.

A full-time drop-off is a site that is open to the public at least 40 hours per week which manages the four materials designated for the residential sector (newspaper, steel, aluminum, and plastic).

A part-time drop-off is a site that is open to the public less than 40 hours per week; however, the site is available at a regularly scheduled time at least once per month. Part-time drop-offs must also handle the four materials designated for the residential sector in order to receive a population credit. A credit for serving 2,500 persons can be counted for each rural drop-off.

a. Service Area

In order to ensure that residents in each of the District's three counties have access to recycling, each county is being

assessed as a separate service area for the access demonstration.

The following table presents the population in each service area within the District.

Service Area	Reference Year Population (2013)	First Year of Planning Period Population (2017)
Ottawa County	41,153	40,551
Sandusky County	63,717	62,896
Seneca County	59,873	59,357

b. Access

Residents in the District have access to waste reduction/recycling services through non-subscription curbside recycling programs, subscription curbside recycling programs, and the drop-off recycling program. Tables VII-2A-C present the access credit calculations for each District county during the 2013 reference year and 2017, the first year of the planning period. The following section will discuss the residents with access to curbside recycling programs and the drop-off recycling program for each county in the District.

Curbside Recycling Access Results

There were eight non-subscription curbside recycling programs and three subscription curbside recycling programs operating in 2013. These programs are expected to still be in operation during 2017. In 2015, the City of Tiffin rolled out a non-subscription curbside recycling program. This program is also expected to remain in operation during the first year of the planning period.

The following table presents a summary of the population with access to curbside recycling programs in each of the District's counties.

Curbside Recycling Population Access

Service Area	2013 Curbside Recycling Access	2017 Curbside Recycling Access
Ottawa County	12,782	12,595
	31%	31%

Service Area	2013 Curbside Recycling Access	2017 Curbside Recycling Access
Sandusky County	21,134	20,847
	33%	33%
Seneca County	0	17,675
	0%	30%

Drop-Off Recycling Access Results

In 2013, there were 41 full-time drop-offs and three part-time drop-offs located throughout the District. Drop-offs are open to anyone in the District. The drop-offs accepted the minimum four materials designated for the residential sector as highly amenable to recycling, as well as additional materials. All District drop-offs accepted glass bottles and jars, aluminum and steel cans, #1-#2 plastics and #3-#7 plastic containers, cardboard, cartons, bulk mail, magazines, newspaper, office paper, paperboard, and phone books.

The following table presents a summary of the population with access to recycling drop-offs in each of the District's counties.

Drop-Off Recycling Access

Service Area	2013 Drop-Off Recycling Access	2017 Drop-Off Recycling Access
Ottawa County	42,500	40,000
	103%	99%
Sandusky County	37,500	37,500
	59%	60%
Seneca County	42,500	42,500
	71%	72%

Although there was not more than one drop-off located in any of the political subdivisions in Ottawa County, the population with access to drop-offs exceeded 100%. This is due to the method of calculating access credits for drop-offs. Drop-offs in rural areas are credited with providing access for 2,500 people, and drop-offs in urban areas are credited with providing access to 5,000 people. These calculations take into account the radius most residents can reasonable travel to a drop-off location, which may exceed the population of the political subdivision in which the drop-off is located. Ottawa County's residents with access to drop-offs decreased from 2013 to 2017 even though the number of drop-offs is not

projected to change from 2013 to 2017. The decrease in population with access to recycling drop-offs is due to the county's overall decrease in population which caused one urban drop-off in 2013 to be reclassified as a rural drop-off in 2017.

Overall Recycling Access Results

The following table presents a summary of the overall access credits for each county in the District during the reference year and the first year of the planning period.

Service Area	Reference Year Access (2013)	First Year of Planning Period Access (2017)
Ottawa County	55,282	52,595
	134%	130%
Sandusky County	58,743	58,455
	92%	93%
Seneca County	42,500	60,175
	71%	101%

Access calculations that exceed 100% indicate that residents may have access to multiple recycling opportunities, such as non-subscription curbside recycling and a full-time drop-off.

All of the curbside recycling programs and drop-off locations that operated during the reference year are expected to continue through the first year in the planning period. In addition, a non-subscription curbside recycling program began operating in the City of Tiffin in Seneca County in 2015. This program is also expected to continue operating through the first year of the planning period. The District will exceed the goal of providing 90% of the population with access to recycling programs by 2017.

c. Participation

The strategies identified in Sections IV and V address the requirements for education and awareness to demonstrate participation. The District will continue to conduct education and awareness programs as planned. The existing education and community awareness programs meet or exceed State Plan requirements. For example, the District maintains the following:

- A website

- A Facebook account
- A comprehensive resource guide
- Publications (newsletters, fliers, guides)
- An inventory of available infrastructure
- Outreach and education coordinators in each county

d. Financial Incentives

Several communities in the District operate non-subscription curbside recycling programs in conjunction with a Pay-As-You-Throw (PAYT) system for trash, which creates direct economic incentives for residents. The District promotes this combination of programming due to its success with improving residential recycling rates. The District will implement two initiatives (OSS-1.2 and OSS-1.3) that target communities with expiring waste collection contracts and work directly with communities to improve their next contract. One of the areas that the District will focus on with communities is expanding the availability of PAYT options for residents.

The District also provides financial incentives to support residential sector recycling, including:

- Competitive Funding program (OSS-11)
 - ✓ Local governments are eligible to apply. Grants may be used for solid waste programs.
- Township and City Funding (TCF) program (OSS-12)
 - ✓ Local governments are eligible to apply. Grants may be used to enhance or expand solid waste programs or to purchase recycled content products.

2. Commercial/Industrial Sector

Solid waste management districts must demonstrate that commercial and industrial generators have access to recycling or other alternative management methods for at least four materials identified in the *1995 State Solid Waste Management Plan* as being highly amenable to recovery from solid waste generated by commercial and industrial generators.

a. Service Area

In order to ensure that businesses and industries in each of the District's three counties have access to recycling, each county is being assessed as a separate service area for the access demonstration.

b. Access

Methods of providing access for commercial/industrial entities include hauler pickup and drop-off (or buyback) availability. The District designated four materials as highly amenable to recycling for the commercial and industrial sectors including cardboard, office paper, aluminum containers, and wooden pallets/packaging.

Districts must demonstrate at least one of the following collection options:

- At least one drop-off available or buyback available.
- Haulers which will pick up recyclables for a fee or at no charge.
- At least one MRF receiving commercial/industrial waste and recovering recyclables from waste received.

The District's 41 full-time drop-offs and three part-time drop-offs are publicly available and open to commercial and industrial generators. Drop-off centers accept three of the required materials that are designated as highly amenable to recycling for the commercial/industrial sector (cardboard, office paper, and aluminum containers).

The following tables present haulers and drop-off locations that provide District businesses and industries with opportunities to recycle each of the four materials designated for the commercial and industrial sectors.

Cardboard Access Demonstration

Service Area	Hauling Services Available	Drop-Off Service Available
Ottawa County	Republic, Fultz & Sons, Gateway, Waste Management	State Paper & Metal Co., Burns Iron & Metal Co., CCC Recycling Center
Sandusky County	Republic, Gateway, N.A.T. Transportation	CCC Recycling Center, Kemper Recycling & Disposal, g2 Revolution
Seneca County	Republic, Karl's Hauling, Gateway, H&O Hauling, N.A.T. Transportation	Fostoria Scrap, CCC Recycling Center, Kohart Recycling, Fostoria Kroger (H&O Hauling)

Office Paper Access Demonstration

Service Area	Hauling Services Available	Drop-Off Service Available
Ottawa County	Gateway, Republic, Waste Management	Fultz and Sons, State Paper & Metal Co., Burns Iron & Metal Co., CCC Recycling Center, Accushred
Sandusky County	Gateway, Republic, N.A.T. Transportation	Buckeye Sanitation, Kemper Iron & Metal, CCC Recycling Center, Accushred, Kemper Recycling & Disposal
Seneca County	Gateway Republic, H&O Hauling, Karl's Hauling, N.A.T. Transportation	Great Lakes Paper Reclamation, Burns Iron & Metal, CCC Recycling Center, Fostoria Kroger (H&O Hauling)

Aluminum Containers Access Demonstration

Service Area	Hauling Services Available	Drop-Off Service Available
Ottawa County	Republic, Waste Management	Burns Iron & Metal, Fultz and Sons, State Paper & Metal Co., CCC Recycling Center, Sandusky Steel, Buckeye Sanitation
Sandusky County	Republic, N.A.T. Transportation	Burns Iron & Metal, Buckeye Sanitation Elliot's Scrapping, Progressive Iron & Metal, CCC Recycling Center, Kemper Recycling & Disposal
Seneca County	Republic, H&O Hauling, Karl's Hauling, N.A.T. Transportation	Fostoria Scrap, Gene's Recycling, J & W Recycling, CCC Recycling Center, Highway 101 Auto Parts, Kohart Recycling, Danner's Towing & Recycling, Fostoria Kroger (H&O Hauling)

Wooden Packaging and Pallet Access Demonstration

Service Area	Hauling Services Available	Drop-Off Service Available
Ottawa County	N/A	BR Pallets, Frania Pallets, Universal Farms, Fultz and Sons, Barnes Nursery
Sandusky County	N.A.T. Transportation	BR Pallets, Frania Pallets, Universal Farms, Fultz and Sons, Barnes Nursery
Seneca County	N.A.T. Transportation	BR Pallets, BJ Pallets, Frania Pallets, Universal Farms, Fultz and Sons, Barnes Nursery, Findlay Pallet, County Environmental of Wyandot

Information on hauling services and drop-offs available to the commercial and industrial sectors was obtained through surveying, phone calls and/or internet verification.

c. Participation

Education and Awareness

The education and awareness programs articulated in Sections IV and V of this *Plan Update* address this requirement. The District’s Commercial and Industrial Technical Assistance program (OSS-14) provides businesses with waste assessments, resources, and assistance with recycling related. Recycling facilities and haulers that provide services to the industrial and commercial sector are posted on the District’s website. The District plans to expand this program by working with the Chamber of Commerce and Economic Development Corporation offices in each District county to develop and promote programs for local businesses and industries (Initiative OSS-14.1).

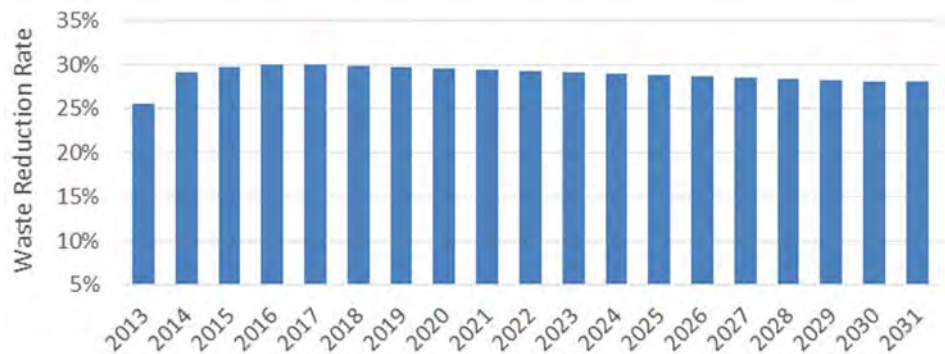
C. Targets for Reduction and Recycling

1. Residential and Commercial Sectors

Table VII-3, “Annual Rate of Waste Reduction: Residential/Commercial Waste”, presents the methods used to reduce waste and the annual waste reduction rates for residential and commercial waste. The District’s residential/commercial sector had a waste reduction rate of 25% in the reference year (2013). Waste reduction is projected to rise to 28% by the end of the planning period (2031).

The following figure presents the District’s residential/commercial waste reduction projections throughout the planning period.

District Residential/Commercial Waste Reduction (2013 – 2031)



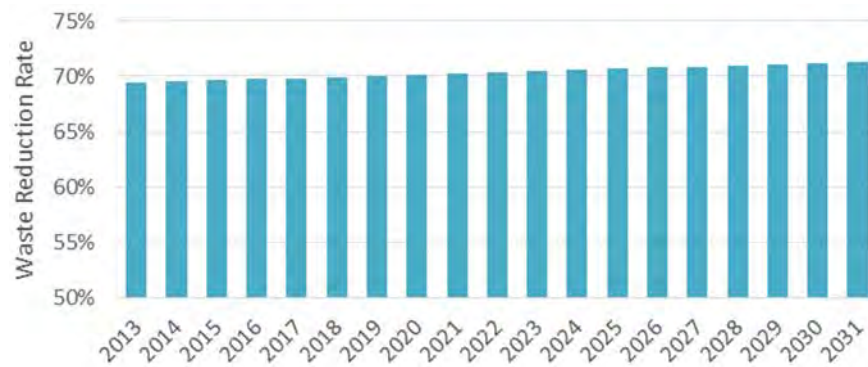
The initial increase in waste reduction from 2013 to 2015 is mainly due to a projected increase resulting from the roll-out of the City of

Tiffin’s non-subscription curbside recycling program. The waste reduction rate peaks at 30% from 2015 to 2020. Although the waste reduction rate decreases slightly from 2020 to 2031, per capita waste reduction is projected to increase annually throughout the planning period. At the beginning of the planning period, the per capita waste reduction rate was 1.64 pounds per day. The per capita waste reduction rate increases to 1.70 pounds per day by 2031, a 3.5% increase over the planning period.

2. Industrial Sector

Table VII-4, “Annual Rate of Waste Reduction: Industrial Waste,” presents the annual waste reduction rate for industrial waste. The District’s industrial sector had a waste reduction rate of 69% in the reference year (2013). The waste reduction rate is projected to rise to 71% by the end of the planning period (2031). The following figure presents the District’s industrial waste reduction projections throughout the planning period. At the beginning of the planning period, the per capita waste reduction rate was 3.16 pounds per day. The per capita waste reduction rate is projected to increase to 3.51 pounds per day by 2031, an 8.7% increase over the planning period.

District Industrial Waste Reduction (2013 – 2025)



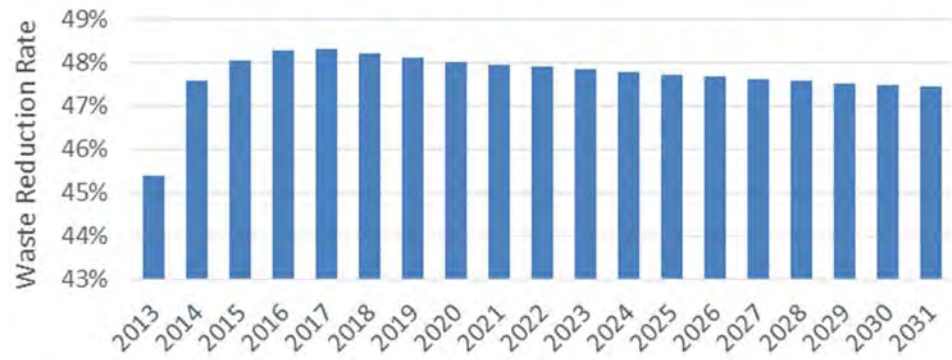
3. District Total

Table VII-5, “Annual Rate of Waste Reduction: Total District Solid Waste”, presents annual waste reduction rates for the residential/commercial and industrial sectors. The District’s waste reduction rate for the reference year (2013) was 45%. The waste reduction rate is expected to increase to 47% by the end of the planning period.

Daily per capita waste reduction rates are expected to increase from 4.56 pounds in 2013 to 5.20 pounds in 2031.

The following figure presents the District's total waste reduction throughout the planning period.

District Total Waste Reduction Percentage (2013 – 2031)



**Table VII-1
Materials Designated to Demonstrate Compliance with Goal #1**

Materials Highly Amenable to Recycling	Four Materials Designated for the Residential Sector	Four Materials Designated for the Commercial/Industrial Sector	Number of Times Materials are Designated
Corrugated cardboard		X	1
Office paper		X	1
Newspaper	X		1
Glass containers			
Steel containers	X		1
Aluminum containers	X	X	2
Plastic containers	X		1
Wood packaging & pallets		X	1
Lead-acid batteries			
Major appliances			
Yard wastes			
Totals	4	4	8

**Table VII-2A
Calculation of Access for Residential Sector**

Program	Reference Year (2013)		Year 2017	
	Population	Population with Access	Population	Population with Access
OTTAWA COUNTY SERVICE AREA				
Non-Subscription Curbside				
Village of Clay Center	279	279	275	275
Village of Elmore	1,404	1,404	1,383	1,383
Village of Oak Harbor	2,744	2,744	2,704	2,704
City of Port Clinton	6,033	6,033	5,945	5,945
Village of Genoa	2,322	2,322	2,288	2,288
Subtotal Non-Subscription Curbside		12,782		12,595
Full-Time Drop-Off				
Allen Township DO	3,774	2,500	3,719	2,500
Bay Township DO	1,438	2,500	1,417	2,500
Benton Township DO	2,630	2,500	2,592	2,500
Carroll Township DO	2,123	2,500	2,092	2,500
Catawba Township DO	3,564	2,500	3,512	2,500
Clay Township DO	5,042	5,000	4,968	2,500
City of Port Clinton DO	6,033	5,000	5,945	5,000
Danbury Township DO	5,088	5,000	5,014	5,000
Erie Township DO	1,204	2,500	1,186	2,500
Harris Township DO	3,006	2,500	2,962	2,500
Portage Township DO	1,283	2,500	1,264	2,500
Salem Township DO	5,338	5,000	5,260	5,000
Total Full Time Drop-Off		40,000		37,500
Part-Time Drop-Off				
Put-In-Bay Township DO	137	2,500	135	2,500
Total Full Time Drop-Off		2,500		2,500
Total Population With Access		55,282		52,595
Ottawa County Population (No Political Adjustments Needed)		41,153		40,551
90% of Population		37,038		36,496
Additional Population Needing Access		-18,244		-16,099
Access Percentage		134%		130%

**Table VII-2B
Calculation of Access for Residential Sector**

Program	Reference Year (2013)		Year 2017	
	Population	Population with Access	Population	Population with Access
SANDUSKY COUNTY SERVICE AREA				
Non-Subscription Curbside				
City of Fremont	16,446	16,446	16,223	16,223
Village of Woodville	2,101	2,101	2,072	2,072
Village of Gibsonburg	2,587	2,587	2,552	2,552
Subtotal Non-Subscription Curbside		21,134		20,847
Subscription Curbside				
Village of Lindsey	437	109	431	108
Subtotal Subscription Curbside		109		108
Full-Time Drop-Off				
Village of Gibsonburg DO	2,587	2,500	2,552	2,500
Village of Helena	222	2,500	219	2,500
Townsend Township DO	1,597	2,500	1,575	2,500
Bellevue/York DO	6,950	5,000	6,856	5,000
Green Creek Township DO	3,509	2,500	3,461	2,500
Green Springs Twp./CCC- Recycling Center DO	222	2,500	219	2,500
Jackson Township DO	1,591	2,500	1,569	2,500
Madison Township DO	3,838	2,500	3,786	2,500
Rice Township DO	1,337	2,500	1,319	2,500
Riley Township DO	1,209	2,500	1,193	2,500
Sandusky Township DO	3,578	2,500	3,529	2,500
Scott Township DO	1,461	2,500	1,441	2,500
Woodville Township DO	2,101	2,500	3,308	2,500
Total Full Time Drop-Off		35,000		35,000
Part-Time Drop-Off				
Washington Township DO	2,287	2,500	2,256	2,500
Total Full Time Drop-Off		2,500		2,500
Total Population With Access		58,743		58,455
Sandusky County Population (Politically Adjusted)		63,717		62,896
90% of Population		57,345		56,606
Additional Population Needing Access		-1,398		-1,849
Access Percentage		92%		93%

Table VII-2C
Calculation of Access for Residential Sector

Program	Reference Year (2013)		Year 2017	
	Population	Population with Access	Population	Population with Access
SENECA COUNTY SERVICE AREA				
Non-Subscription Curbside				
City of Tiffin	17,832	0	17,675	17,675
Subtotal Non-Subscription Curbside		0		17,675
Subscription Curbside				
None	0	0	0	0
Subtotal Subscription Curbside		0		0
Full-Time Drop-Off				
Adams Township	1,287	2,500	1,276	2,500
Village of Attica/Venice Twp	879	2,500	871	2,500
Big Springs Twp.	1,741	2,500	1,726	2,500
Bloom Township	1,763	2,500	1,747	2,500
Clinton Township	4,048	2,500	4,012	2,500
Eden Township	2,165	2,500	2,146	2,500
City of Fostoria Kohart Recycling	13,244	5,000	13,140	5,000
Jackson Township	1,490	2,500	1,477	2,500
Liberty Township	1,998	2,500	1,980	2,500
Pleasant Township	1,599	2,500	1,585	2,500
Scipio Township	1,695	2,500	1,680	2,500
Thompson Township	1,419	2,500	1,406	2,500
Loudon Township	2,093	2,500	2,075	2,500
Reed Township	834	2,500	827	2,500
Hopewell Township DO	2,730	2,500	2,706	2,500
Total Full Time Drop-Off		40,000		40,000
Part-Time Drop-Off				
City of Tiffin	17,832	2,500	17,675	2,500
Total Full Time Drop-Off		2,500		2,500
Total Population With Access		42,500		60,175
Seneca County Population (Politically Adjusted)		59,873		59,357
90% of Population		53,886		53,421
Additional Population Needing Access		11,386		-6,753
Access Percentage		71%		101%

**Table VII-3
Annual Rate of Waste Reduction: Residential/Commercial Waste**

Year	Recycling	Composting	Gross Incineration	Waste Reduction via Incineration	Landfill	Total Waste Reduction	Population	Waste Reduction Rate (%)	Per Capita Waste Reduction Rate (lb/day)
2013	20,385	21,758	0.4	0.3	123,189	42,143	164,743	25%	1.40
2014	20,445	27,247	0.4	0.3	115,670	47,692	164,258	29%	1.59
2015	20,706	27,247	0.4	0.3	113,462	47,953	163,774	30%	1.60
2016	21,083	27,247	0.4	0.3	112,606	48,330	163,289	30%	1.62
2017	21,348	27,247	0.4	0.3	113,151	48,594	162,804	30%	1.64
2018	21,297	27,247	0.4	0.3	114,002	48,544	162,319	30%	1.64
2019	21,246	27,247	0.4	0.3	114,847	48,493	161,835	30%	1.64
2020	21,195	27,247	0.4	0.3	115,683	48,442	161,350	30%	1.65
2021	21,125	27,247	0.4	0.3	116,339	48,371	160,677	29%	1.65
2022	21,054	27,247	0.4	0.3	116,985	48,301	160,004	29%	1.65
2023	20,983	27,247	0.4	0.3	117,619	48,230	159,331	29%	1.66
2024	20,912	27,247	0.4	0.3	118,243	48,159	158,658	29%	1.66
2025	20,841	27,247	0.4	0.3	118,857	48,088	157,985	29%	1.67
2026	20,771	27,247	0.4	0.3	119,460	48,017	157,313	29%	1.67
2027	20,700	27,247	0.4	0.3	120,052	47,947	156,640	29%	1.68
2028	20,629	27,247	0.4	0.3	120,633	47,876	155,967	28%	1.68
2029	20,558	27,247	0.4	0.3	121,204	47,805	155,294	28%	1.69
2030	20,488	27,247	0.4	0.3	121,765	47,734	154,621	28%	1.69
2031	20,421	27,247	0.4	0.3	122,358	47,668	153,992	28%	1.70

Source(s) of information:

Recycling, composting, gross incineration, waste reduction via incineration, and landfill tonnage - Table VI-2
Population - Table V-1

Sample calculations (2013):

Recycling + composting + waste reduction via incineration = Total waste reduction

$$20,385 \text{ tons} + 21,758 \text{ tons} + 0.3 \text{ tons} = 42,143 \text{ tons}$$

Total waste reduction ÷ (total waste reduction + landfill) x 100 = Waste reduction rate

$$42,143 \text{ tons} \div (42,143 \text{ tons} + 123,189 \text{ tons}) \times 100 = 25\%$$

(Total waste reduction x 2,000 lbs) ÷ (District population x 365 days) = Per capita waste reduction rate

$$(42,143 \text{ tons} \times 2,000 \text{ pounds}) \div (164,743 \times 365) = 1.40 \text{ lbs/day}$$

**Table VII-4
Annual Rate of Waste Reduction: Industrial Waste**

Year	Recycling	Gross Incineration	Waste Reduction via Incineration	Landfill	Total Waste Reduction	Population	Waste Reduction Rate (%)	Per Capita Waste Reduction Rate (lb/day)
2013	94,529	737	516	41,871	95,045	164,743	69%	3.16
2014	94,718	738	517	41,755	95,235	164,258	70%	3.18
2015	94,908	740	518	41,638	95,426	163,774	70%	3.19
2016	95,098	741	519	41,522	95,617	163,289	70%	3.21
2017	95,288	743	520	41,404	95,808	162,804	70%	3.22
2018	95,479	744	521	41,287	95,999	162,319	70%	3.24
2019	95,669	746	522	41,169	96,191	161,835	70%	3.26
2020	95,861	747	523	41,050	96,384	161,350	70%	3.27
2021	96,053	749	524	40,926	96,577	160,677	70%	3.29
2022	96,245	750	525	40,802	96,770	160,004	70%	3.31
2023	96,437	752	526	40,677	96,963	159,331	70%	3.33
2024	96,630	753	527	40,552	97,157	158,658	71%	3.36
2025	96,823	755	528	40,426	97,351	157,985	71%	3.38
2026	97,017	756	529	40,301	97,546	157,313	71%	3.40
2027	97,211	758	530	40,174	97,741	156,640	71%	3.42
2028	97,405	759	531	40,048	97,937	155,967	71%	3.44
2029	97,600	761	532	39,921	98,133	155,294	71%	3.46
2030	97,795	762	534	39,794	98,329	154,621	71%	3.48
2031	97,991	764	535	39,666	98,526	153,992	71%	3.51

Source(s) of information:
 Recycling and landfill data - Table VI-3
 Population - Table V-1

Sample calculation (2013):

Total waste reduction ÷ (total waste reduction + landfill) x 100 = Waste reduction rate
 95,045 tons ÷ (95,045 tons + 41,871 tons) x 100 = 69%

(Total waste reduction x 2,000 pounds) ÷ (district population x 365 days) = Per capita waste reduction rate
 (95,045 tons x 2,000 pounds) ÷ (164,743 x 365) = 3.16 lbs/day

**Table VII-5
Annual Rate of Waste Reduction: Total District Solid Waste**

Year	Recycling	Composting	Gross Incineration	Waste Reduction via Incineration	Landfill	Total Waste Reduction	Population	Waste Reduction Rate	Per Capita Waste Reduction Rate (lb/day)
2013	114,915	21,758	737	516	165,060	137,188	164,743	45%	4.56
2014	115,164	27,247	739	517	157,425	142,927	164,258	48%	4.77
2015	115,614	27,247	740	518	155,100	143,378	163,774	48%	4.80
2016	116,181	27,247	742	519	154,128	143,947	163,289	48%	4.83
2017	116,635	27,247	743	520	154,555	144,402	162,804	48%	4.86
2018	116,776	27,247	745	521	155,289	144,543	162,319	48%	4.88
2019	116,916	27,247	746	522	156,015	144,684	161,835	48%	4.90
2020	117,056	27,247	748	523	156,733	144,826	161,350	48%	4.92
2021	117,177	27,247	749	524	157,265	144,948	160,677	48%	4.94
2022	117,298	27,247	751	525	157,786	145,070	160,004	48%	4.97
2023	117,420	27,247	752	526	158,296	145,193	159,331	48%	4.99
2024	117,542	27,247	754	527	158,795	145,316	158,658	48%	5.02
2025	117,665	27,247	755	529	159,283	145,440	157,985	48%	5.04
2026	117,788	27,247	757	530	159,760	145,564	157,313	48%	5.07
2027	117,911	27,247	758	531	160,226	145,688	156,640	48%	5.10
2028	118,034	27,247	760	532	160,681	145,813	155,967	48%	5.12
2029	118,159	27,247	761	533	161,125	145,938	155,294	48%	5.15
2030	118,283	27,247	763	534	161,558	146,063	154,621	47%	5.18
2031	118,412	27,247	764	535	162,024	146,194	153,992	47%	5.20

Source(s) of information:

Recycling, composting, incineration, waste reduction via incineration, landfill, and population - Tables VII-3 and VII-4

Sample calculation (2013):

Recycling + composting + waste reduction via incineration = Total waste reduction

$$114,915 \text{ tons} + 21,758 \text{ tons} + 516 \text{ tons} = 137,188 \text{ tons}$$

Total waste reduction ÷ (total waste reduction + landfill) x 100 = Waste reduction rate

$$137,188 \text{ tons} \div (137,188 \text{ tons} + 165,060 \text{ tons}) \times 100 = 45\%$$

(Total waste reduction x 2,000 lbs) ÷ (District population x 365 days) = Per capita waste reduction rate

$$(137,188 \text{ tons} \times 2,000 \text{ pounds}) \div (164,743 \times 365) = 4.56 \text{ lbs/day}$$

VIII. Cost of Financing Plan Implementation [ORC Section 3734.53(A)(9), (12) and (B)]

This Section of the Plan provides information on the District's revenues and expenditures. The revenues and expenditures presented for 2013 and 2014 are based on actual revenues received and costs expended. The planning period includes cost projections based on these initial years.

Ohio EPA QFR Discrepancy

The District's quarterly fee reports submitted in 2013 and 2014 conflict the revenue reported to Ohio EPA for the following areas:

Revenue

- \$62,500 in grant revenue not reported in 2013 (Plan Budget – Reimbursements)
- \$62,500 in grant revenue not reported in 2014 (Plan Budget – Reimbursements)
- \$23,554 in revenue not correctly shown on EPA's version of the quarterly fee report (Plan Budget – Recycling Revenue)
- \$11,038.62 in revenue not correctly shown on EPA's version of the quarterly fee report (Plan Update – Reimbursements)
- The District submitted revised fee reports for 2013 and 2014 to reflect the above differences. The reports were submitted in 2016

A projection on the estimated funds needed to operate is provided for each District program. The budget is a demonstration that the District can implement the initiatives, strategies, programs and facilities detailed in Sections IV and V of this *Plan Update*. The budget is to be reviewed as a planning tool with anticipation that circumstances on actual revenues and costs may change and adjustments will be made by the District as appropriate. The tables referenced throughout Section VIII of this *Plan Update* are included at the end of the section.

A. Funding Mechanisms

1. District Disposal Fees

Table VIII-1, "District Disposal Fee Schedule and Revenues Generated," presents an estimate of total District disposal fee revenues for the planning period. The District has a flat \$1.50 per ton disposal fee for solid waste generated and disposed within the solid waste management district, a \$3.00 per ton disposal fee for solid waste generated outside the solid waste management district but within Ohio and disposed within the solid waste management district, and \$1.50 per ton disposal fee for solid waste

generated outside of Ohio and disposed within the solid waste management district.

The District received \$1,088,838, \$1,137,74 and \$928,856 in revenue from disposal fees in 2013, 2014 and 2015, respectively. The loss of over \$208,000 (138,000 tons) in disposal fee revenues comes from the out-of-state tier fees collected. The District evaluated why this loss occurred. The following analysis shows that a significant change in solid waste vs. construction demolition debris (CDD) categorization has occurred from 2014 to 2015 at the Sunny Farms Landfill:

2014	68% Solid Waste	32% CDD
2015	44% Solid Waste	56% CDD (Through September)

The characterization of solid waste and CDD has been an issue in the past. The District and Ohio EPA have evaluated the incoming materials that Sunny Farms accepts and has determined that more than 60% of the receipts are classified as unidentifiable. According to Ohio EPA, if incoming materials are unidentifiable, then they are considered solid waste and not CDD.

In 2015, in a two-month period, the characterization of in-coming materials to the Sunny Farms Landfill went from 62% solid waste and 38% CDD to 35% solid waste and 65% CDD. The District notified Ohio EPA of this situation. In February of 2016, Ohio EPA notified Sunny Farms Landfill that, over a 3-day period, Sunny Farms had incorrectly characterized 45 loads of material accepted at the landfill (See Appendix J). A total of 1,174.42 tons needed to be reclassified from CDD to solid waste. The District extrapolated the 4-day sample above to an annual total of 101,783 tons (\$152,674 in fee revenue) of mischaracterized materials. The District assumes this issue will be resolved between Ohio EPA and Sunny Farms in the same manner as in the past.

For the purposes of this *Plan Update*, the District assumes that the loss in out-of-state revenue will be resolved in 2016 and an additional 101,783 tons (or more) of solid waste that was previously characterized as CDD will yield additional fee revenue for the District.

In addition, the District reserves the right to implement any of the following initiatives or actions to ensure the proper characterization of solid waste vs CDD at the Sunny Farms Landfill:

- Conduct random inspections of incoming waste loads
- Conduct random inspections of photo documentation of incoming waste loads

- Conduct routine inspections of incoming waste loads
- Enforce District rules related to inspections of both the Sunny Farms Landfill as well as out-of-state facilities sending Sunny Farms Landfill waste materials
- Development of new District rules related to this issue
- Development of new initiatives or actions as determined to be in the best interest of the District
- Any combination of the above

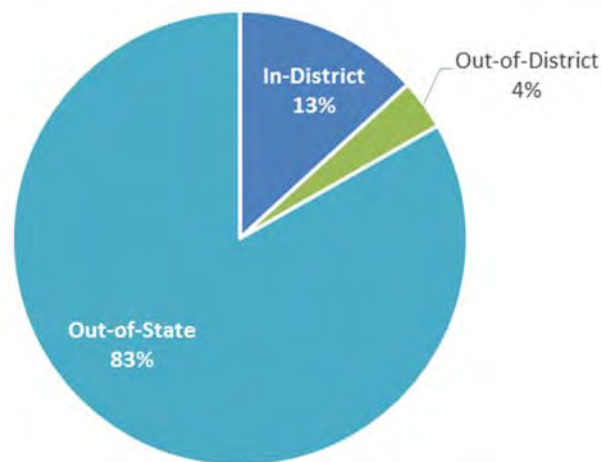
Based on the discussion above, the District anticipated that \$1,085,724 would be received in disposal fees for 2016.

In-district tons were projected to increase at the same average annual rate as District landfilling totals throughout the planning period (0.24%). Out-of-district tonnage was projected to increase at 5% annually until 2026, then remain flat for the remainder of the planning period. Out-of-state tonnage was projected to increase 1% annually.

The majority (approximately 83%) of disposal fee revenue is collected from tonnage generated out-of-state. Approximately 13% of the disposal fee revenue is collected from tonnage generated within the District. Disposal fee revenue collected from tonnage generated outside the District but within Ohio only represented 4%.

The following figure presents the disposal fee revenue by type

2013 District Disposal Fee Revenue by Fee Type



Disposal fee revenue for the first year of the planning period (2017) is projected to be \$1,098,316. Revenue will increase modestly throughout the planning period. In 2031, disposal fee revenue is anticipated to increase to \$1,309,624.

2. Generation Fee

Table VIII-2 is not applicable to the District because the District does not have a generation fee at this time. This table has been omitted. The Policy Committee may determine whether it is appropriate to establish a generation fee. The contingent funding Table VIII-7 includes a generation fee of \$9 per ton if the District's landfills were to close and revenues were needed to operate the District. The projections begin in 2017 for planning purposes only. The District is not creating a generation fee with the approval of this *Plan Update*.

3. Host Community Fees

Sunny Farms Landfill entered into an agreement with the District to begin paying a host community fee of \$0.25 per ton on out-of-state waste accepted at the landfill in 2014. The fee increases to \$0.50 per ton of out-of-state waste beginning in 2015. In 2014, \$130,523 in host community fees and in 2015 \$199,315 (Table VIII-3). In 2017, the District anticipates that host community fees will generate \$276,407 in revenue. Revenue from these fees are anticipated to increase 1% annually, ending in 2031 with \$317,723 in host community fees.

4. Designation Fees

In accordance with ORC 343.022, the District has negotiated fees by contracting with out-of-district landfills and transfer stations. The District charges a fee of \$1.50 per ton for solid waste accepted by out-of-district landfills and transfer stations. In 2013, designation fees totaled \$89,228. In 2014, designation fees were \$81,091 and in 2015 \$63,250. Designation fee revenue is projected to remain flat throughout the planning period.

5. Reimbursements

Reimbursements include money from over payments on invoices to contractors, rebates from purchases, revenue from the electronic collection program, revenue from scrap tire program and other minor miscellaneous revenue. Reimbursements from 2013 to 2015 averaged \$28,925 (minus grant revenue). Reimbursements can vary from year to year, so the District projected a conservative flat total of \$20,000 annually from 2016 to 2031.

6. Grants

Grants include money from received from grant funded projects. In grant funding, the District received \$62,500 in 2013, \$62,500 in 2014, and \$112,500 in 2015. Grant funding can vary from year to year and is not

guaranteed, therefore the District did not project any grant funding after 2016.

7. Interest

Interest revenue comes from the carry over balance the District maintains. Since the District is projecting the fund balance to remain stable throughout the planning period, the interest income is also projected to remain stable.

8. Recycling Revenue

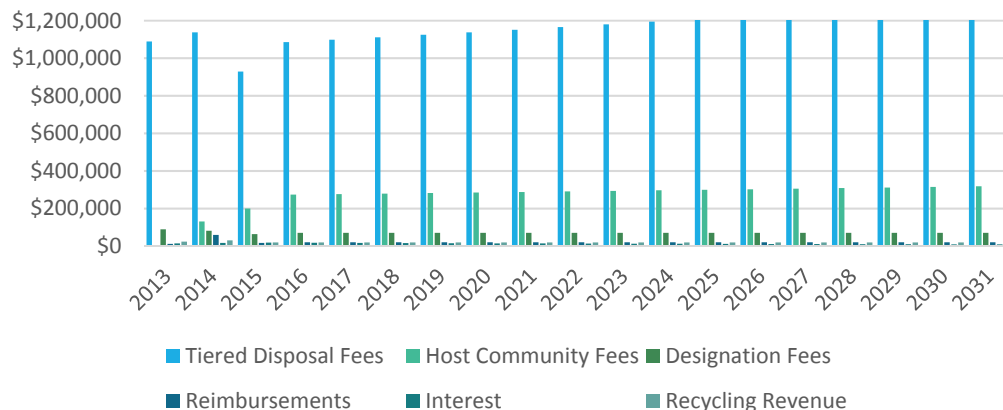
Recycling revenue includes income from the District’s recycling facility due to the sale of commodities. Actual revenue for 2013, 2014 and 2015 is listed in Table VIII-3. In 2015, recycling markets were very weak. Recycling markets are projected to improve; however, in an effort to estimate revenue conservatively, the District is projecting Recycling revenue will grow slowly over the planning period starting in 2017 at \$18791 and ending in 2031 at \$19,432.

9. Summary of District Revenues

Table VIII-3, “Summary of Revenue Generated and Mechanisms Used,” presents the District’s actual revenues from 2013 – 2015 and estimated revenues from 2016 to 2031. Estimated revenues include tiered disposal fees, host community fees, designation fees, reimbursements, interest, and recycling revenue.

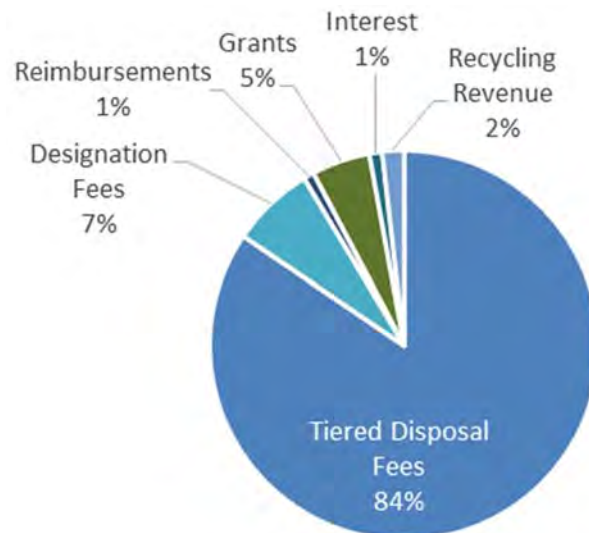
Total revenues are anticipated to increase from \$1,499,776 in 2017 to \$1,745,440 in 2031. The following figure presents the District’s revenue by type of funding mechanism:

2013 District Revenue by Funding Mechanism



The following figure presents the percentage of revenue generated by each funding mechanism used in 2013.

Percentage of Revenue Generated in 2013 by Each Funding Mechanism



In the reference year, the majority (84%) of the District's revenue was generated through tiered disposal fees. Designation fees represented approximately 7% of the District's revenue, grants represented 5%, recycling revenue represented 2%, reimbursements represented 1%, and interest represented approximately 1%.

B. Cost of Plan Implementation

Table VIII-4, "Anticipated Loans Secured by the District", indicates the District has no outstanding loans and does not anticipate securing loans during the planning period. However, if it is in the best interest of the District to develop a facility or implement a capital intensive, the District reserves the right to obtain funding or revenues through loans or bonds and other mechanisms allowed by Ohio law.

Table VIII-5, "Estimated Cost for Plan Implementation", presents a detailed breakdown of expenditures for each year of the planning period. The District Director will allocate these funds with the approval of the Board of Directors.

The expenditures presented in the Plan budget include actual expenditures and encumbrances from 2013 – 2015. Expenditures may differ from the expenditures presented in the quarterly reports because quarterly fee reports are developed using cash basis accounting, while the District's

detailed expenditures presented in Table VIII-5 were developed using accrual based accounting.

Payroll Expenditures

Payroll expenditures include full-time and part-time employee salaries, PERS, Medicare, medical insurance, life insurance, and worker’s compensation.

For 2017, the first year of the planning period, the following funding levels are projected for each payroll line item and include a brief description of each expense line item and/or an explanation of the annual escalator:

Program	Program #	2017 Budget	Annual Escalator
Full-Time Employee Salaries	Admin-1	\$228,959	1.0%
Full-time employee salaries are projected to increase 1.0% annually based on internal District practices.			
Part-Time Employee Salaries	Admin-2	\$74,990	1.0%
Part-time employee salaries are projected to increase 1.0% annually based on internal District practices.			
PERS	Admin-3	\$42,036	Special
The average ratio of Public Employees’ Retirement System (PERS) expenditures to full-time and part-time employee salaries in 2013 and 2014 (13.83%) is used to calculate expenditures from 2015 to 2031.			
Medicare	Admin-4	\$4,407	Special
The average ratio of Medicare expenditures to full-time salaries and part-time salaries in 2013 and 2014 (1.45%) is used to calculate expenditures from 2015 to 2031.			
Medical Insurance	Admin-5	\$53,151	Special
The ratio of medical insurance expenditures to full-time salaries in 2014 is used to calculate expenditures from 2015 to 2031.			
Workers Compensation	Admin-6	\$5,927	Special
Workers compensation expenditures are based on adding together payroll expenses for full-time employees and part-time employees. The total is divided by 100 and multiplied by \$1.95, which calculates the tax rate for employers in the State of Ohio.			

Administrative/District Facilities, Supplies, and Support Services

Administrative and District Facilities, supplies, and support services (Admin-7 to Admin-16) include necessary expenditures for daily operations

at the District's administrative office as well as expenses for operating the District's facilities (office and MRF).

For 2017, the first year of the planning period, the following funding levels are projected for each administrative line item and include a brief description of each expense line item and/or an explanation of the annual escalator:

Program	Program #	2017 Budget	Annual Escalator
Supplies	Admin-7	\$37,533	Flat
Supplies are needed materials for office and MRF operations. Supplies are projected to remain flat throughout the planning period based on the average expenses in 2013 and 2014.			
Office Overhead	Admin-8	\$82,230	1.7%
Office overhead includes equipment, telephone services, maintenance and repair to office-related equipment, and other miscellaneous administrative costs.			
Travel/Education/Training	Admin-9	\$8,753	1.6%
The District's cost for transportation, lodging, and registration (when applicable) to conferences and meetings are projected to increase 1.6% annually, based on the 12-month overall percent change in travel expenses in the Consumer Price Index for All Urban Consumers (CPI-U) for April 2014 to March 2015.			
Rent/Utilities	Admin-10	\$44,659	2%
Rent for the District's office is projected to increase 3.0% annually, based on the 12-month overall percent change in shelter in the Consumer Price Index for All Urban Consumers (CPI-U) for April 2014 to April 2015. Utilities for the District's office are projected to decrease 0.9% annually, based on the 12-month overall percent change in utilities in the Consumer Price Index for All Urban Consumers (CPI-U) for April 2014 to April 2015. Overall, this category is projected to increase annually by increase 2%.			
IT Expenses/Equipment	Admin-11	\$3,400	Special
Computer system equipment includes the purchase of laptops, computers and electronic accessories such as keyboards, internet service, and computer programs. Planned upgrades and equipment replacements are expected in 2018, 2021, and 2025. Additional funding has been allocated in these years to cover necessary expenditures. With these years excluded, an annual budget of \$3,600 is allocated from 2019 to 2023; an annual budget of \$3,800 is allocated from 2024 to 2028; and an annual budget of \$4,200 is allocated from 2029 to 2031.			
Repairs and Maintenance	Admin-12	\$10,776	2.1%
Building maintenance includes preventative maintenance, painting, cleaning, and replacement of parts. Repairs and maintenance is projected to increase 2.1% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for April 2014 to March 2015.			

Program	Program #	2017 Budget	Annual Escalator
Fuel	Admin-13	\$16,092	1.0%
Fuel expenses for District vehicles and in support of the District MRF operations. Projections are based on 1% annual increase.			
Consulting Services	Admin-14	\$12,000	Varies
Estimated consulting costs include annual district report assistance every other year (in even years). Approximately every five years, the cost for assistance with Plan Update preparation included and allocated over a three-year period.			
Professional Services	Admin-24	\$5,000	Flat
A flat rate of \$5,000 is projected from 2015 to 2031 for legal and other professional services the District may require throughout the planning period.			
Advertising/Printing	Admin-35	\$72,769	-1.0%
The District advertises events and programs using printed media, television, and radio. The budget for printing is also used to cover costs associated with annual mailings and the production of brochures and flyers. The District projected slight decreases cost because trends in advertising are moving toward electronic communication and outreach versus printed/direct mailer campaigns.			

Residential/Commercial Collection Programs

Residential/Commercial Collection Program expenditures include curbside recycling, drop-off recycling, partnership program, yard waste, household hazardous waste, scrap tire collection, lead acid battery collection, electronics and material recovery facilities.

The following table includes the funding levels projected for each residential/commercial collection program in 2017, a brief description of each expense and/or an explanation of the annual escalator:

Program	Program #	2017 Budget	Annual Escalator
Curbside Recycling	OSS-1	\$0	n/a
The District does not incur an expense for this program as the communities operate the curbside recycling programs.			
Curbside Recycling Promotion	OSS-1.1	\$1,000	Flat
Starting in 2017, the District will budget \$1,000 per year for promotion of curbside recycling for communities that have curbside recycling programs. A majority of the increased promotional activities listed in this initiative can			

Program	Program #	2017 Budget	Annual Escalator
be implemented by the District's Community Outreach Specialist which will minimize the expense to this initiative.			
Drop-Off Recycling	OSS-2	\$328,191	2%
This line item includes the cost to operate the drop-off program through a third-party hauler. Expenses may also include maintenance of District owned containers and the addition of new sites. The District projects expenses will increase 2% per year. For 2018, the District anticipates a \$40,000 increase in contracted costs due to a re-bid of the contract.			
Implementation of Partnership Management Program	OSS-2.2	\$18,000	Flat
The District will budget up to \$400 per site per year (or a total of \$18,000) for the implementation of this initiative from the period 2018-2021. The District will re-evaluate the effectiveness of this program at the end of 2021 to determine if this program will be included in the next plan update budget.			
Yard Waste Management	OSS-3	\$0	n/a
The District does not incur an expense for this program as the communities operate the curbside recycling programs.			
Household Hazardous Waste	OSS-4	\$113,202	0.9%
The District is actively working to reduce the quantity of HHW generated. The cost to operate the program is anticipated to increase annually, but at a slower rate than most programs because of the District's volume-reduction initiatives. Costs are projected to increase at 0.9% annually.			
Scrap Tire Collection	OSS-5	\$18,063	1.0%
The District anticipates that the budget needed to operate this program will increase by 1% annually to reflect inflation.			
Lead-Acid Battery Management	OSS-6	\$357	1.0%
The District anticipates that the budget needed to operate this program will increase by 1% annually to reflect inflation.			
Appliance Collection	OSS-7	\$0	n/a
The District does not incur an expense for this program.			
Electronic Collection	OSS-8	\$30,158	1.0%
The District anticipates that the budget needed to operate this program will increase by 1% annually to reflect inflation.			

Program	Program #	2017 Budget	Annual Escalator
Material Recovery Facilities	OSS-9	\$10,039	1.0%
The District anticipates that the budget needed to operate this program will increase by 1% annually to reflect inflation. In 2019, a one-time increase of \$30,000 is included to cover maintenance and equipment upgrades.			

Residential/Commercial/Industrial Market Development Programs

The District operates several market development grants. The following table includes the funding levels projected for each grant program in 2017, a brief description of each expense, and/or an explanation of the annual escalator:

Program	Program #	2017 Budget	Annual Escalator
Recycling Market Development	OSS-10	\$0	n/a
Funding for this program is secured through grants. The District is not projecting any expenses because grant funding is not guaranteed.			
Competitive Funding	OSS-11	\$80,000	Flat
Funding is projected to be flat throughout the planning period. The District typically does not grant more than \$80,000 on average for this program.			
Buy Recycled Program	OSS-12	\$150,000	Flat
Funding is projected to be flat throughout the planning period. Expenditures for this program vary, but have not exceeded \$150,000 on average.			
City and Village Funding (CVF)	OSS-13	\$58,000	Flat
Funding is projected to be flat throughout the planning period. The District typically does not grant more than \$58,000 on average for this program.			

Education and Awareness Programs

The District operates a comprehensive education and awareness program, as well as provides technical assistance to the commercial and industrial sectors.

The following table includes the funding levels projected for each education and awareness program, a brief description of each expense and/or an explanation of the annual escalator:

Program	Program #	2017 Budget	Annual Escalator
Education and Awareness	OSS-14	\$11,634	1.0%
Budget covers materials needed for contests, presentations, publications, displays, workshops, and other education and outreach activities. Projections are escalated at 2% annually.			
Commercial/Industrial Technical Assistance	OSS-15	\$0	n/a
The District does not incur an expense for this program.			

Litter Prevention and Collection Programs

The District operates a variety of grant and loan programs and will begin operating a number of new grant and loan programs during the first year of the planning period.

The following table includes the funding levels projected for each grant and loan program in 2016, a brief description of each expense and/or an explanation of the annual escalator:

Program	Program #	2016 Budget	Annual Escalator
Litter Collection	OSS-16	\$31,012	1.0%
Expenditures include labor from the juvenile court system in each county and supplied such as gloves, bags, and safety vests. Costs are expected to increase 1% annually to reflect inflation.			
Beach and River Clean-Ups	OSS-17	\$206	1.0%
Expenditures include supplies such as safety vests, garbage bags, and gloves for volunteers. Costs are expected to increase 1% annually to reflect inflation.			
Adopt-A-Road	OSS-18	\$812	1.0%
Expenditures include supplies such as safety vests, garbage bags, and gloves for volunteers. Costs are expected to increase 1% annually to reflect inflation.			

Other Programs

The District operates a variety of other programs during the planning period.

The following table includes the funding levels projected for each grant and loan program in 2016, a brief description of each expense and/or an explanation of the annual escalator:

Program	Program #	2017 Budget	Annual Escalator
Container Loan	OSS-19	\$459	1.0%
Expenditures may include containers, lids, labels, clear bags, and transportation costs. Costs are expected to increase 1% annually to reflect inflation.			
Health Department Financial Support	OSS-20	\$59,000	Flat
The District provides financial assistance to health departments in Sandusky and Seneca counties for the enforcement of solid waste rules, orders, permits, terms and conditions of permits and licenses for solid waste facilities located within the District. Funding is based on activities completed. The District does not anticipate that annual assistance will be greater than \$59,000 during the planning period.			
Needle Disposal Campaign	OSS-21	\$412	1.0%
Expenditures include education and outreach materials such as fliers. Costs are expected to increase 1% annually to reflect inflation.			
Medication Take-Back	OSS-22	\$412	1.0%
Expenditures include education and outreach materials such as fliers. Costs are expected to increase 1% annually to reflect inflation.			
Disaster Debris Management	OSS-23	\$0	n/a
<p>The District maintains a funding mechanism for counties within the District in the event of a natural disaster that requires solid waste management activities. Funding of up to \$100,000 is available which will be divided equally for each county in the District at \$33,000. Funding for any given project is not guaranteed and is contingent on the District's budget at the time of the natural disaster. The District will fund projects with excess unencumbered revenue.</p> <p>When a large scale disaster occurs across more than one county, the District, if approved by the Board, will reimburse the affected political subdivision, after the event, on a per capita basis so the limited funding can be equally distributed. When the event is widespread, the District will not contract with individual brush grinding services to ensure the limited funding is available to complete the cleanup projects.</p> <p>In smaller concentrated events like a tornado touching down on a few streets, the District may choose to contract with a brush grinding service to help with the cleanup if the District can be assured that the cleanup effort is within the \$33,000 allocated for each county.</p>			

Program	Program #	2017 Budget	Annual Escalator
Strategic Planning	OSS-24	\$0	n/a
The District does not incur an expense for this program.			

This budget was prepared in good faith using the most accurate and up-to-date information available at the time the tables were prepared. Nothing contained in these budget projections should be construed as a binding commitment by the District to spend a specific amount of money on a particular strategy, facility, program and/or activity. The Board, with the advice and assistance of the District Director, will review and revise the budget as needed to implement planned strategies, facilities, programs and/or activities as effectively as possible with the funds available. Unanticipated, excess revenues may be applied, to the extent that is practical and allowable, to other *Plan Update* implementation activities.

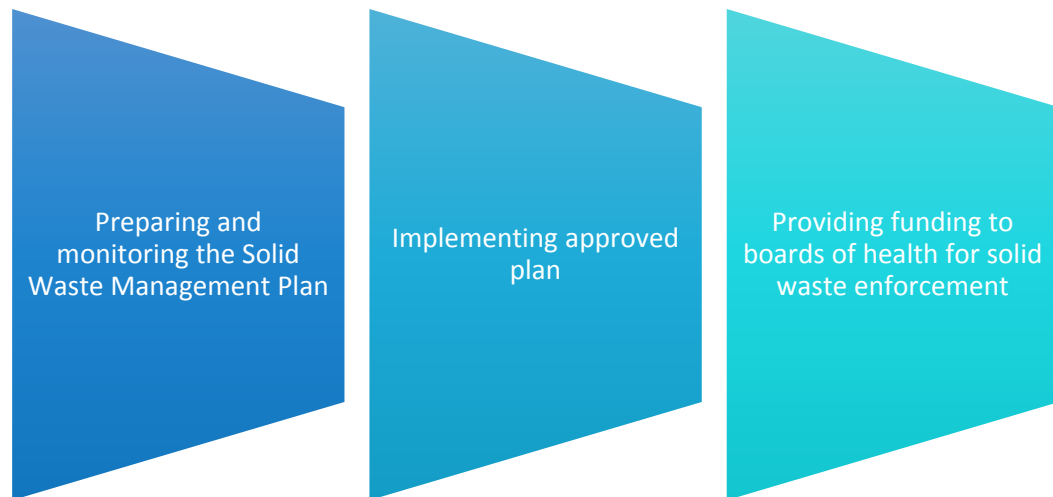
The District reserves the right to revise the budget and reallocate funds as programs change or as otherwise determined to be in the best interest of the District.

C. Funds Allocated from ORC 3734.57(B), ORC 3734.572 and ORC 3734.573

Solid waste districts may collect fees to fund the implementation of their plans as well as other purposes. Solid waste fees such as disposal fees and generation fees must be expended exclusively for the following ten purposes (ORC 3734.57 (G)):

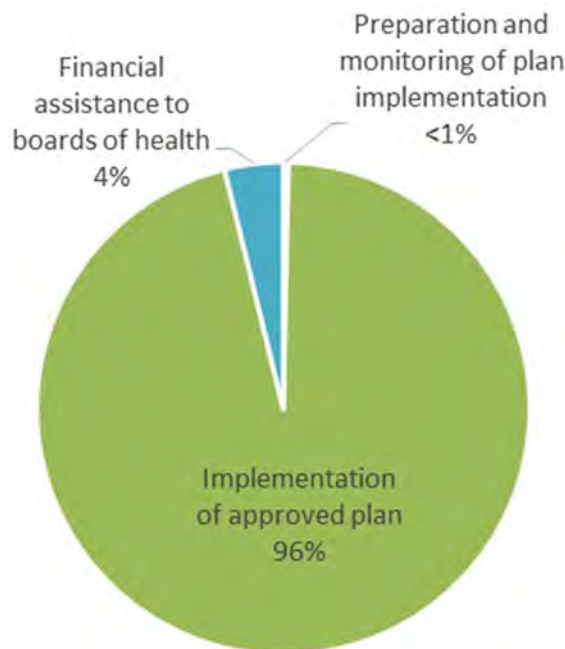
<p>1</p> <ul style="list-style-type: none"> •Preparation and monitoring of the solid waste management plan 	<p>2</p> <ul style="list-style-type: none"> • Implementation of the approved solid waste management plan
<p>3</p> <ul style="list-style-type: none"> •Providing financial assistance to boards of health within the district, for solid waste enforcement 	<p>4</p> <ul style="list-style-type: none"> •Providing financial assistance to defray the costs of maintaining roads and other services resulting from the location and operation of a solid waste facility
<p>5</p> <ul style="list-style-type: none"> •Providing financial assistance to boards of health for collecting and analyzing samples from water wells adjacent to solid waste facilities 	<p>6</p> <ul style="list-style-type: none"> •Developing and implementing a program for inspecting out-of-state solid waste
<p>7</p> <ul style="list-style-type: none"> •Providing financial assistance to boards of health or to local law enforcement agencies having jurisdiction within the district for anti-littering enforcement 	<p>8</p> <ul style="list-style-type: none"> •Providing financial assistance to boards of health for employees to participate in Ohio EPA's training and certification program for solid waste operators and facility inspectors
<p>9</p> <ul style="list-style-type: none"> •Providing financial assistance to municipalities and townships to defray their costs of maintaining roads and other services resulting from the location and operation of solid waste facilities 	<p>10</p> <ul style="list-style-type: none"> •Payment of any expenses that are agreed to awarded or ordered to be paid under section 3734.35 of the Revised Code and any administrative costs incurred pursuant to that section

Table VIII-6, “Revenues and Allocations in Accordance with ORC 3734.57, ORC 3734.572 and ORC 3734.573”, presents the District’s projected allocation among the ten allowable uses. The District’s budget falls into three categories:



The following figure presents the allocation of funding among the allowable uses during the reference year:

2013 Allocation of Funding



In 2013, 96% of the District’s expenditures were allocated to implementing the approved Plan. The remaining expenditures were allocated to providing financial assistance to Boards of Health for solid waste enforcement (4%) and preparing the *Plan Update* (<1%).

The following table presents the allocation of the District’s budget for each allowable use for each year throughout the planning period:

2013 – 2031 District Budget Allocation by Allowable Use



D. Contingent Funding

The District and Board do not consider funding to be an issue of concern during this planning period. As of 2013, Sunny Farms Landfill had a remaining capacity of more than 20 years. A significant portion of the District’s revenue comes from tipping fees and host community fees from Sunny Farms Landfill. This source of revenue appears to be stable for the remainder of the planning period.

District revenues may be negatively affected by the establishment of a new resource recovery or solid waste facility within the District. The District may request that the District Policy Committee modify the tiered disposal fees to accommodate any changes in District revenues if a new resource recovery or solid waste facility is constructed. At this time, changes to the disposal fee schedule are not being considered.

The Board would consider creating a generation fee, modifying its tiered disposal fee or other funding options if disposal fee or contract fee revenues are compromised during the planning period or if a new resource recovery or solid waste facility becomes operational. This would occur if the District’s revenues and/or expenses create budgetary shortfalls that significantly reduce the District’s fund balance without a projected short-term recovery. To alleviate this scenario and to reduce the District’s ability to fund core programs to implement this *Plan Update*, the District may consider requesting that the District Policy Committee adopt and obtain ratification of a generation fee.

If the Board decides that a generation fee is needed, the Board will request that the District Policy Committee set the amount of the generation fee and begin the process to ratify the generation fee in accordance

Section 3734.573 of the Ohio Revised Code. Table VIII-7 presents the amounts of revenue that would be generated throughout the planning period based on the implementation of a hypothetical generation fee.

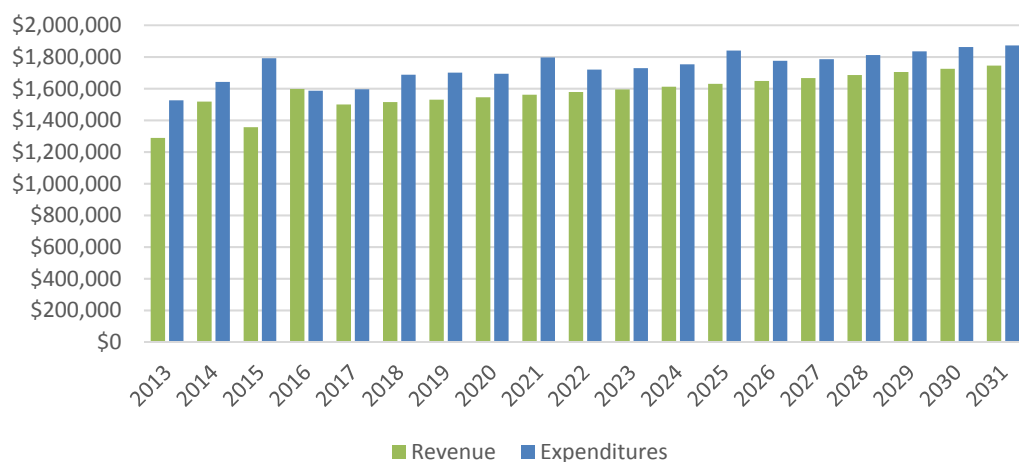
Before this contingency would be implemented, the District would reevaluate the estimated expenditures in Table VIII-5 to determine the minimum annual budget to sustain the District’s core operations.

In general, the District has confidence that it can adjust to less than catastrophic changes in waste generation or disposal within the District which would adversely affect District revenues. District revenues may vary from year-to-year or season-to-season depending on the waste generation. This may also be evident from the current economic conditions. The District’s Board of Directors has the responsibility for monitoring revenue and expenses on a quarterly basis and to determine if this contingency plan needs to be implemented.

E. Summary of Costs and Revenues

Table VIII-8, “Summary of District Revenues and Expenditures”, includes the total revenue and annual costs for each program from the reference year through the end of the planning period. Revenue is projected to increase from \$1,499,776 in 2017 to \$1,745,440 in 2031. Expenditures in 2017 are projected to be \$1.60 million. Throughout the planning period, expenditures are projected to range from \$1.60 to \$1.87 million annually. The following figure presents the District’s actual and projected revenue and expenditures from 2013 to 2031.

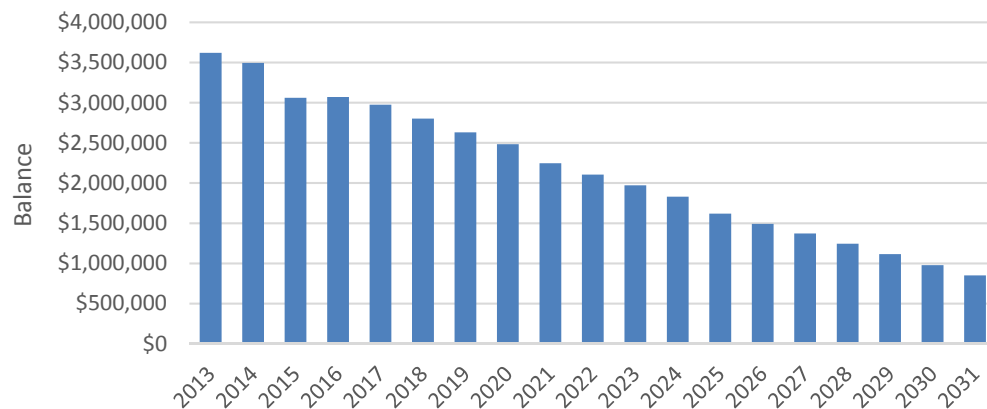
2013 – 2031 District Revenue and Expenditures



The District is projected to begin the planning period with a carryover balance of \$3,070,385 and conclude the planning period with a balance of approximately \$849,836. Each year of the planning period is projected to have ample funding for each of the programs.

The following figure presents the District’s ending balance from 2013 to 2031.

2013 – 2031 District Fund Balance



Plan Update Budget Demonstration Policy

The budget projections were prepared in good faith using the best and most current information available. The District has prepared the budget section of this *Plan Update* to meet the requirements in the Ohio Revised Code, Section 3734.53 (A)(13)(d):

The methods of financing implementation of the plan and a demonstration of the availability of financial resources for that purpose.

The budget tables prepared for this *Plan Update* demonstrates that the District has the financial funding throughout the planning period to implement the planned programs and initiatives.

Nothing contained in these budget projections should be construed as a binding commitment by the District to spend a specific amount of money on a particular strategy, facility, program and/or activity. The Board, with the advice and assistance of the District Director, will review and revise the budget as needed to implement the planned strategies, facilities, programs and/or activities as effectively as possible with the funds available.

Revenues, not otherwise committed to an existing strategy, facility, program or activity may be used to increase funding to improve the effectiveness of an existing strategy, facility, program or activity and to provide funding for a

new strategy, facility, program or activity the Board concludes is justified based on the District Director's recommendations and the content of this *Plan Update*.

The District reserves the right to revise the budget and reallocate funds as programs change or when otherwise determined to be in the best interest of the District.

The District is committed to implementing planned strategies, facilities, programs and/or activities in a cost-effective manner. The District is committed to improving the effectiveness and reduce the cost of all District strategies, facilities, programs and activities. The District Board is authorized to expend District funds among other uses included in the *Plan Update* when costs are reduced. Additionally, the Board is authorized to use reduced costs to provide grant funds or direct funding to evaluate, test and/or implement new strategies, facilities, programs and activities that are in compliance with this *Plan Update* are not a "material change in circumstance" regarding the implementation of this *Plan Update*.

Any transfer of funding between line items will not constitute a material change of circumstances or require a ratification of the budget unless deemed necessary by the Board of Commissioners. The Board of Commissioners will determine if a material change in circumstances has occurred and will refer to Section I for those requirements and guidelines.

**Table VIII-1
District Disposal Fee Schedule and Revenues Generated**

Year	Fee Schedule (\$/ton)			Tons Disposed in the District			Total District Fee Revenue
	In-District	Out-of-District	Out-of-State	In-District	Out-of-District	Out-of-State	
2013	\$1.50	\$3.00	\$1.50	95,774	12,981	604,156	\$1,088,838
2014	\$1.50	\$3.00	\$1.50	112,763	15,834	614,059	\$1,137,734
2015	\$1.50	\$3.00	\$1.50	123,699	24,990	445,558	\$928,856
2016	\$1.50	\$3.00	\$1.50	123,995	26,240	547,341	\$1,085,724
2017	\$1.50	\$3.00	\$1.50	124,293	27,552	552,814	\$1,098,316
2018	\$1.50	\$3.00	\$1.50	124,591	28,930	558,342	\$1,111,189
2019	\$1.50	\$3.00	\$1.50	124,890	30,376	563,926	\$1,124,352
2020	\$1.50	\$3.00	\$1.50	125,190	31,895	569,565	\$1,137,817
2021	\$1.50	\$3.00	\$1.50	125,491	33,490	575,261	\$1,151,595
2022	\$1.50	\$3.00	\$1.50	125,792	35,164	581,013	\$1,165,699
2023	\$1.50	\$3.00	\$1.50	126,094	36,922	586,823	\$1,180,142
2024	\$1.50	\$3.00	\$1.50	126,396	38,768	592,692	\$1,194,937
2025	\$1.50	\$3.00	\$1.50	126,700	40,707	598,618	\$1,210,097
2026	\$1.50	\$3.00	\$1.50	127,004	42,742	604,605	\$1,225,639
2027	\$1.50	\$3.00	\$1.50	127,308	44,879	610,651	\$1,241,576
2028	\$1.50	\$3.00	\$1.50	127,614	47,123	616,757	\$1,257,926
2029	\$1.50	\$3.00	\$1.50	127,920	49,479	622,925	\$1,274,705
2030	\$1.50	\$3.00	\$1.50	128,227	51,953	629,154	\$1,291,932
2031	\$1.50	\$3.00	\$1.50	128,535	54,551	635,446	\$1,309,624

Source(s) of information: 2013-2015 Quarterly Fee Reports

**Table VIII-3
Summary of Revenue Generated and Mechanisms Used**

Year	Type of Revenue Mechanism and Amount Used							Total Revenue Generated
	Tiered Disposal Fees	Host Community Fees (\$.25 in 2014 (.50 in 2015 and Beyond)	Designation Fees (\$1.50/ton)	Reimbursements	Grants	Interest	Recycling Revenue	
2013	\$1,088,838	\$0	\$89,228	\$11,239	\$62,500	\$13,657	\$23,554	\$1,289,015
2014	\$1,137,734	\$130,523	\$81,091	\$59,188	\$62,500	\$16,635	\$30,478	\$1,518,150
2015	\$928,856	\$199,315	\$63,250	\$16,349	\$112,500	\$17,793	\$18,701	\$1,356,763
2016	\$1,085,724	\$273,670	\$70,000	\$20,000	\$112,500	\$17,010	\$18,746	\$1,597,650
2017	\$1,098,316	\$276,407	\$70,000	\$20,000	\$0	\$16,262	\$18,791	\$1,499,776
2018	\$1,111,189	\$279,171	\$70,000	\$20,000	\$0	\$15,546	\$18,836	\$1,514,742
2019	\$1,124,352	\$281,963	\$70,000	\$20,000	\$0	\$14,862	\$18,881	\$1,530,058
2020	\$1,137,817	\$284,782	\$70,000	\$20,000	\$0	\$14,208	\$18,926	\$1,545,734
2021	\$1,151,595	\$287,630	\$70,000	\$20,000	\$0	\$13,583	\$18,972	\$1,561,781
2022	\$1,165,699	\$290,507	\$70,000	\$20,000	\$0	\$12,986	\$19,017	\$1,578,209
2023	\$1,180,142	\$293,412	\$70,000	\$20,000	\$0	\$12,414	\$19,063	\$1,595,031
2024	\$1,194,937	\$296,346	\$70,000	\$20,000	\$0	\$11,868	\$19,109	\$1,612,259
2025	\$1,210,097	\$299,309	\$70,000	\$20,000	\$0	\$11,346	\$19,155	\$1,629,907
2026	\$1,225,639	\$302,302	\$70,000	\$20,000	\$0	\$10,847	\$19,201	\$1,647,988
2027	\$1,241,576	\$305,325	\$70,000	\$20,000	\$0	\$10,369	\$19,247	\$1,666,518
2028	\$1,257,926	\$308,379	\$70,000	\$20,000	\$0	\$9,913	\$19,293	\$1,685,511
2029	\$1,274,705	\$311,462	\$70,000	\$20,000	\$0	\$9,477	\$19,339	\$1,704,984
2030	\$1,291,932	\$314,577	\$70,000	\$20,000	\$0	\$9,060	\$19,386	\$1,724,954
2031	\$1,309,624	\$317,723	\$70,000	\$20,000	\$0	\$8,661	\$19,432	\$1,745,440

Note: Disposal Fees match Quarterly Fee Reports, which are calculated using cash-based accounting. Totals do not match tonnage in Table VIII-1 which was calculated on an accrual basis.

Source(s) of information:

2013-2014 - Quarterly Fee Reports - (Revised in February of 2016)

2013-2014 Reimbursements - Quarterly Fee Reports

2013-2014 Grants - Quarterly Fee Reports

2014-2025 Disposal Fees and Contract Fees - Calculated from tonnage in Table VIII-1

2014 Recycling Revenue - District budget and accounting records

2015-2025 Recycling Revenue - Conservative estimate based on average from 2013-2014

2012-2013 State or Federal Grants - Based on District records, which differ from Quarterly Fee Reports. Explanatory tables included in Section VIII.

**Table VIII-4
Anticipated Loans Secured by the District**

Year	Loans Obtained by the District		Interest Rate	Length of Loan	Annual Debt Service
	Lending Institution	Loan Amount			
2013	N/A	0	N/A	0	0
2014	N/A	0	N/A	0	0
2015	N/A	0	N/A	0	0
2016	N/A	0	N/A	0	0
2017	N/A	0	N/A	0	0
2018	N/A	0	N/A	0	0
2019	N/A	0	N/A	0	0
2020	N/A	0	N/A	0	0
2021	N/A	0	N/A	0	0
2022	N/A	0	N/A	0	0
2023	N/A	0	N/A	0	0
2024	N/A	0	N/A	0	0
2025	N/A	0	N/A	0	0
2026	N/A	0	N/A	0	0
2027	N/A	0	N/A	0	0
2028	N/A	0	N/A	0	0
2029	N/A	0	N/A	0	0
2030	N/A	0	N/A	0	0
2031	N/A	0	N/A	0	0

Table VIII-5
Estimated Costs for Plan Implementation

Description	Program #	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
District Administration Budget																				
Payroll Expenditures																				
Full-Time Employee Salaries	Admin-1	\$215,976	\$222,225	\$224,447	\$228,692	\$228,959	\$231,248	\$233,561	\$235,896	\$238,255	\$240,638	\$243,044	\$245,475	\$247,929	\$250,409	\$252,913	\$255,442	\$257,996	\$260,576	\$263,182
Part-Time Employee Salaries	Admin-2	\$79,997	\$72,785	\$73,513	\$74,248	\$74,990	\$75,740	\$76,498	\$77,263	\$78,035	\$78,816	\$79,604	\$80,400	\$81,204	\$82,016	\$82,836	\$83,664	\$84,501	\$85,346	\$86,200
PERS	Admin-3	\$40,861	\$40,851	\$41,208	\$41,620	\$42,036	\$42,457	\$42,881	\$43,310	\$43,743	\$44,180	\$44,622	\$45,068	\$45,519	\$45,974	\$46,434	\$46,898	\$47,367	\$47,841	\$48,319
Medicare	Admin-4	\$4,190	\$4,165	\$4,320	\$4,364	\$4,407	\$4,451	\$4,496	\$4,541	\$4,586	\$4,632	\$4,678	\$4,725	\$4,772	\$4,820	\$4,868	\$4,917	\$4,966	\$5,016	\$5,066
Medical Insurance	Admin-5	\$39,705	\$51,588	\$52,704	\$62,625	\$53,151	\$53,683	\$54,220	\$54,762	\$55,309	\$55,862	\$56,421	\$56,985	\$57,555	\$58,131	\$58,712	\$59,299	\$59,892	\$60,491	\$61,096
Workers Compensation	Admin-6	\$3,284	\$4,345	\$5,510	\$5,888	\$5,927	\$5,986	\$6,046	\$6,107	\$6,168	\$6,229	\$6,292	\$6,355	\$6,418	\$6,482	\$6,547	\$6,613	\$6,679	\$6,745	\$6,813
Subtotal		\$384,012	\$395,959	\$401,403	\$405,417	\$409,471	\$413,565	\$417,701	\$421,878	\$426,097	\$430,358	\$434,661	\$439,008	\$443,398	\$447,832	\$452,310	\$456,833	\$461,402	\$466,016	\$470,676
Administrative/District Facilities, Supplies, and Support Services																				
Supplies	Admin-7	\$57,017	\$18,049	\$37,533	\$37,533	\$37,533	\$37,533	\$37,533	\$37,533	\$37,533	\$37,533	\$37,533	\$37,533	\$37,533	\$37,533	\$37,533	\$37,533	\$37,533	\$37,533	\$37,533
Office Overhead	Admin-8	\$54,683	\$79,812	\$90,610	\$81,416	\$82,230	\$83,053	\$83,883	\$84,722	\$85,569	\$86,425	\$87,289	\$88,162	\$89,044	\$89,934	\$90,834	\$91,742	\$92,659	\$93,586	\$94,522
Travel/Education/Training	Admin-9	\$9,425	\$8,346	\$8,480	\$8,615	\$8,753	\$8,893	\$9,035	\$9,180	\$9,327	\$9,476	\$9,628	\$9,782	\$9,938	\$10,097	\$10,259	\$10,423	\$10,590	\$10,759	\$10,931
Rent/Utilities	Admin-10	\$38,579	\$42,083	\$42,925	\$43,783	\$44,659	\$45,552	\$46,463	\$47,392	\$48,340	\$49,307	\$50,293	\$51,299	\$52,325	\$53,371	\$54,439	\$55,528	\$56,638	\$57,771	\$58,926
IT Expenses/Equipment	Admin-11	\$2,177	\$4,607	\$3,400	\$3,400	\$3,400	\$28,400	\$3,600	\$3,600	\$98,600	\$3,600	\$3,600	\$3,800	\$3,800	\$3,800	\$3,800	\$3,800	\$4,200	\$4,200	\$4,200
Repairs and Maintenance	Admin-12	\$15,775	\$10,125	\$10,338	\$10,555	\$10,776	\$11,003	\$11,234	\$11,470	\$11,710	\$11,956	\$12,207	\$12,464	\$12,726	\$12,993	\$13,266	\$13,544	\$13,829	\$14,119	\$14,416
Fuel	Admin-13	\$16,906	\$15,619	\$15,175	\$15,933	\$16,092	\$16,253	\$16,416	\$16,580	\$16,746	\$16,913	\$17,082	\$17,253	\$17,426	\$17,600	\$17,776	\$17,954	\$18,133	\$18,315	\$18,498
Consulting Services	Admin-14	\$5,205	\$7,976	\$12,000	\$18,600	\$12,000	\$6,900	\$0	\$7,200	\$0	\$19,900	\$12,500	\$20,200	\$0	\$8,032	\$0	\$8,350	\$13,000	\$21,700	\$13,000
Professional Services (i.e. Legal)	Admin-15	\$6,975	\$477	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Advertising and Printing	Admin-16	\$76,027	\$72,466	\$74,247	\$73,504	\$72,769	\$72,041	\$71,321	\$70,608	\$69,902	\$69,203	\$68,511	\$67,825	\$67,147	\$66,476	\$65,811	\$65,153	\$64,501	\$63,856	\$63,218
Subtotal		\$282,769	\$259,560	\$290,307	\$288,339	\$293,213	\$314,628	\$284,465	\$293,285	\$302,727	\$309,313	\$303,643	\$313,318	\$304,938	\$304,636	\$298,717	\$319,026	\$316,083	\$326,839	\$320,243

Table VIII-5 (continued)
Estimated Costs for Plan Implementation

Description	Program #	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
Residential/Commercial Collection Programs																					
Curbside Recycling	OSS-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Curbside Recycling Promotion	OSS-1.1	\$0	\$0	\$0	\$0	\$1,000	\$1,000	\$1,000	\$1,000	\$500	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Drop-Off Recycling	OSS-2	\$253,656	\$309,262	\$315,447	\$321,756	\$328,191	\$374,755	\$382,250	\$393,895	\$397,693	\$405,647	\$413,760	\$422,035	\$430,476	\$439,085	\$447,867	\$456,824	\$465,961	\$475,280	\$484,786	
Implementation of Partnership Management Program	OSS-2.2	\$0	\$0	\$0	\$0	\$0	\$18,000	\$18,000	\$18,000	\$18,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Yard Waste Management	OSS-3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Household Hazardous Waste Management Program	OSS-4	\$109,259	\$110,200	\$111,192	\$112,193	\$113,202	\$114,221	\$115,249	\$116,286	\$117,333	\$118,389	\$119,454	\$120,529	\$121,614	\$122,709	\$123,813	\$124,927	\$126,052	\$127,186	\$128,331	
Scrap Tire Collection	OSS-5	\$14,295	\$21,120	\$17,708	\$17,885	\$18,063	\$18,244	\$18,426	\$18,611	\$18,797	\$18,985	\$19,175	\$19,366	\$19,560	\$19,756	\$19,953	\$20,153	\$20,354	\$20,558	\$20,763	
Lead-Acid Battery Management	OSS-6	\$350	\$350	\$350	\$354	\$357	\$361	\$364	\$368	\$372	\$375	\$379	\$383	\$387	\$390	\$394	\$398	\$402	\$406	\$410	
Appliance Collection	OSS-7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Electronics Collection	OSS-8	\$13,495	\$29,271	\$29,564	\$29,859	\$30,158	\$30,460	\$30,764	\$31,072	\$31,382	\$31,696	\$32,013	\$32,333	\$32,657	\$32,983	\$33,313	\$33,646	\$33,983	\$34,323	\$34,666	
Material Recovery Facilities	OSS-9	\$42,000	\$9,744	\$9,841	\$9,940	\$10,039	\$10,140	\$10,241	\$10,348	\$10,458	\$10,568	\$10,681	\$10,796	\$10,912	\$11,029	\$11,147	\$11,266	\$11,386	\$11,507	\$11,629	
Subtotal		\$433,055	\$479,947	\$484,102	\$491,986	\$501,011	\$567,180	\$606,194	\$655,473	\$694,625	\$733,657	\$772,670	\$811,674	\$850,668	\$889,652	\$928,626	\$967,590	\$1,006,544	\$1,045,488	\$1,084,432	
Residential/Commercial/Industrial Market Development Programs																					
Recycling Market Development Grant	OSS-10	\$0	\$125,000	\$225,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Competitive Funding	OSS-11	\$85,988	\$73,575	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	
Buy Recycled Program	OSS-12	\$98,692	\$182,639	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	
City and Village Funding (CVF)	OSS-13	\$74,233	\$67,758	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	
Subtotal		\$258,913	\$438,972	\$513,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	
Education and Awareness Programs																					
Education and Awareness	OSS-14	\$17,813	\$11,292	\$11,405	\$11,519	\$11,634	\$11,751	\$11,868	\$11,987	\$12,107	\$12,228	\$12,350	\$12,473	\$12,598	\$12,724	\$12,851	\$12,980	\$13,110	\$13,241	\$13,373	
Commercial/Industrial Technical Assistance	OSS-15	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Subtotal		\$17,813	\$11,292	\$11,405	\$11,519	\$11,634	\$11,751	\$11,868	\$11,987	\$12,107	\$12,228	\$12,350	\$12,473	\$12,598	\$12,724	\$12,851	\$12,980	\$13,110	\$13,241	\$13,373	
Liter Prevention and Collection Programs																					
Liter Collection	OSS-16	\$35,759	\$30,100	\$30,401	\$30,705	\$31,012	\$31,322	\$31,635	\$31,952	\$32,271	\$32,594	\$32,920	\$33,249	\$33,582	\$33,917	\$34,257	\$34,599	\$34,945	\$35,295	\$35,648	
Beach and River Clean-Ups	OSS-17	\$200	\$200	\$202	\$204	\$206	\$208	\$210	\$212	\$214	\$217	\$219	\$221	\$223	\$225	\$228	\$230	\$232	\$235	\$237	
Adopt-a-Road	OSS-18	\$1,500	\$788	\$796	\$804	\$812	\$820	\$828	\$836	\$845	\$853	\$862	\$870	\$879	\$888	\$897	\$906	\$915	\$924	\$933	
Subtotal		\$37,459	\$31,088	\$31,399	\$31,713	\$32,030	\$32,350	\$32,674	\$33,001	\$33,331	\$33,664	\$34,000	\$34,340	\$34,684	\$35,031	\$35,381	\$35,735	\$36,092	\$36,453	\$36,818	
Other Programs																					
Container Loan	OSS-19	\$228	\$685	\$450	\$465	\$459	\$464	\$468	\$473	\$478	\$482	\$487	\$492	\$497	\$502	\$507	\$512	\$517	\$522	\$528	
Health Department Financial Support	OSS-20	\$68,644	\$24,016	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	
Needle Disposal Campaign	OSS-21	\$500	\$400	\$404	\$408	\$412	\$416	\$420	\$425	\$429	\$433	\$437	\$442	\$446	\$451	\$455	\$460	\$464	\$469	\$474	
Medication Take-Back	OSS-22	\$402	\$400	\$404	\$408	\$412	\$416	\$420	\$425	\$429	\$433	\$437	\$442	\$446	\$451	\$455	\$460	\$464	\$469	\$474	
Disaster Debris Management	OSS-23	\$52,838	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Strategic Planning	OSS-24	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Subtotal		\$112,612	\$25,901	\$60,258	\$60,271	\$60,283	\$60,296	\$60,309	\$60,322	\$60,335	\$60,349	\$60,362	\$60,376	\$60,390	\$60,404	\$60,418	\$60,432	\$60,446	\$60,460	\$60,475	
Totals		\$1,526,633	\$1,642,319	\$1,709,873	\$1,587,244	\$1,585,642	\$1,687,778	\$1,701,231	\$1,693,945	\$1,707,222	\$1,720,568	\$1,733,989	\$1,747,473	\$1,760,917	\$1,774,320	\$1,787,783	\$1,801,306	\$1,814,889	\$1,828,531	\$1,842,233	\$1,855,995

**Table VIII-6
Revenues and Allocations in Accordance with ORC 3734.57, ORC 3734.572 and ORC 3734.573**

Year	Total Annual Revenue	Allocations of ORC 3734.57 and ORC 3734.573 Revenue For the Following Purposes:										Year-End Balance										
		1	2	3	4	5	6	7	8	9	10		Total Budget Allocation									
2013	\$1,289,015	\$5,205	\$1,462,784	\$58,644	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,856,875	
2014	\$1,518,150	\$7,976	\$1,610,327	\$24,016	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,619,257
2015	\$1,356,763	\$12,000	\$1,720,873	\$59,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,495,088
2016	\$1,597,650	\$18,600	\$1,509,644	\$59,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,059,979
2017	\$1,499,776	\$12,000	\$1,524,642	\$59,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,070,385
2018	\$1,514,742	\$6,900	\$1,621,870	\$59,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,974,519
2019	\$1,530,058	\$0	\$1,642,231	\$59,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,801,491
2020	\$1,545,734	\$7,200	\$1,627,745	\$59,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,630,319
2021	\$1,561,781	\$0	\$1,738,222	\$59,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,482,108
2022	\$1,578,209	\$19,900	\$1,641,468	\$59,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,246,667
2023	\$1,595,031	\$12,500	\$1,657,489	\$59,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,104,508
2024	\$1,612,259	\$20,200	\$1,674,490	\$59,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,970,549
2025	\$1,629,907	\$0	\$1,781,574	\$59,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,829,119
2026	\$1,647,988	\$8,032	\$1,708,947	\$59,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,618,452
2027	\$1,666,518	\$0	\$1,726,613	\$59,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,490,461
2028	\$1,685,511	\$8,350	\$1,744,578	\$59,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,371,366
2029	\$1,704,984	\$13,000	\$1,763,247	\$59,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,244,948
2030	\$1,724,954	\$21,700	\$1,781,825	\$59,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,114,685
2031	\$1,745,440	\$13,000	\$1,800,718	\$59,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$977,114
																						\$849,836

Notes:

- 1 - Preparation and monitoring of plan implementation.
- 2 - Implementation of approved plan.
- 3 - Financial assistance to boards of health for solid waste enforcement.
- 4 - Financial assistance to defray the costs of maintaining roads and other public services related to the location or operation of solid waste facilities.
- 5 - Contracts with boards of health for collecting and analyzing samples from water wells adjacent to solid waste facilities.
- 6 - Out-of-state waste inspection program.
- 7 - Financial assistance to local boards of health to enforce ORC 3734.03 or to local law enforcement agencies having jurisdiction within the District for anti-littering.
- 8 - Financial assistance to local boards of health for employees to participate in Ohio EPA's training and certification program for solid waste operators and facility inspectors.
- 9 - Financial assistance to local municipalities and townships to defray the added cost of roads and services related to the operation of solid waste facilities.
- 10 - Payment of any expenses that are agreed to awarded or ordered to be paid under section 3734.35 of the Revised Code and any administrative costs incurred pursuant to that section.

**Table VIII-7
Contingent Funding Sources**

Year	Amount of Contingent Funding for Each Source		Total
	Generation Fee Revenue	Total Tons Generated	
2013	\$0.00	165,060	\$0
2014	\$0.00	157,425	\$0
2015	\$0.00	155,100	\$0
2016	\$0.00	154,128	\$0
2017	\$9.00	154,555	\$1,390,995
2018	\$9.00	155,289	\$1,397,600
2019	\$9.00	156,015	\$1,404,137
2020	\$9.00	156,733	\$1,410,601
2021	\$9.00	157,265	\$1,415,388
2022	\$9.00	157,786	\$1,420,077
2023	\$9.00	158,296	\$1,424,667
2024	\$9.00	158,795	\$1,429,158
2025	\$9.00	159,283	\$1,433,550
2026	\$9.00	159,760	\$1,437,843
2027	\$9.00	160,226	\$1,442,037
2028	\$9.00	160,681	\$1,446,132
2029	\$9.00	161,125	\$1,450,129
2030	\$9.00	161,558	\$1,454,026
2031	\$9.00	162,024	\$1,458,215

Note: The generation fee can be adjusted up or down to meet contingent needs.

Source(s) of information: Tons - Tables VII-3 and VII-4

Table VIII-6
Summary of District Revenues and Expenditures

Description	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Beginning Balance	\$3,666,875	\$3,619,257	\$3,465,088	\$3,059,979	\$3,070,395	\$2,974,519	\$2,801,491	\$2,630,319	\$2,482,108	\$2,246,667	\$2,104,538	\$1,970,549	\$1,829,119	\$1,618,452	\$1,491,461	\$1,371,366	\$1,244,948	\$1,114,685	\$977,114
Revenues																			
Tire/Disposal Fees	\$1,088,838	\$1,137,734	\$928,666	\$1,085,724	\$1,098,316	\$1,111,189	\$1,124,352	\$1,137,817	\$1,151,935	\$1,165,899	\$1,180,142	\$1,194,937	\$1,210,097	\$1,225,639	\$1,241,576	\$1,257,926	\$1,274,705	\$1,291,932	\$1,309,624
Host Community Fees	\$0	\$130,623	\$199,915	\$273,870	\$276,407	\$279,171	\$281,963	\$284,792	\$287,630	\$290,507	\$293,412	\$296,346	\$299,309	\$302,302	\$305,325	\$308,379	\$311,462	\$314,577	\$317,723
Designation Fees	\$99,228	\$81,091	\$63,250	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000
Reimbursements	\$11,239	\$69,188	\$16,349	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Grants	\$62,500	\$62,500	\$112,500	\$112,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Interest	\$13,657	\$16,635	\$17,793	\$17,910	\$16,262	\$15,546	\$14,882	\$14,208	\$13,533	\$12,866	\$12,414	\$11,888	\$11,346	\$10,847	\$10,369	\$9,913	\$9,477	\$9,060	\$8,661
Recycling Revenue	\$23,554	\$30,478	\$18,701	\$18,746	\$18,791	\$18,836	\$18,881	\$18,926	\$18,972	\$19,017	\$19,063	\$19,109	\$19,155	\$19,201	\$19,247	\$19,293	\$19,339	\$19,386	\$19,432
Total Revenue	\$1,289,015	\$1,518,150	\$1,365,763	\$1,597,650	\$1,499,776	\$1,514,742	\$1,530,058	\$1,545,734	\$1,561,781	\$1,578,209	\$1,595,091	\$1,612,259	\$1,629,907	\$1,647,998	\$1,666,518	\$1,685,511	\$1,704,984	\$1,724,954	\$1,745,440
Expenditures																			
Payroll Expenditures																			
Full-Time Employee Salaries	Admin-1	\$215,976	\$222,225	\$224,447	\$226,692	\$228,959	\$231,248	\$233,551	\$235,886	\$238,255	\$240,638	\$243,044	\$245,475	\$247,929	\$250,409	\$252,913	\$255,442	\$257,996	\$260,576
Part-Time Employee Salaries	Admin-2	\$79,997	\$72,765	\$73,513	\$74,248	\$74,980	\$75,740	\$76,498	\$77,263	\$78,035	\$78,816	\$79,604	\$80,400	\$81,204	\$82,016	\$82,836	\$83,664	\$84,501	\$85,346
PPRS	Admin-3	\$40,881	\$40,851	\$41,208	\$41,620	\$42,036	\$42,457	\$42,881	\$43,310	\$43,743	\$44,180	\$44,622	\$45,068	\$45,519	\$45,974	\$46,434	\$46,898	\$47,367	\$47,841
Medicare	Admin-4	\$4,190	\$4,165	\$4,320	\$4,364	\$4,407	\$4,451	\$4,496	\$4,541	\$4,586	\$4,632	\$4,678	\$4,725	\$4,772	\$4,820	\$4,868	\$4,917	\$4,966	\$5,016
Medical Insurance	Admin-5	\$39,705	\$51,688	\$52,104	\$52,625	\$53,151	\$53,683	\$54,220	\$54,762	\$55,309	\$55,862	\$56,421	\$56,985	\$57,555	\$58,131	\$58,712	\$59,299	\$59,892	\$60,491
Workers Compensation	Admin-6	\$3,294	\$4,345	\$5,010	\$5,688	\$6,327	\$6,986	\$7,646	\$8,107	\$8,168	\$8,229	\$8,292	\$8,355	\$8,418	\$8,482	\$8,547	\$8,613	\$8,679	\$8,745
Subtotal	\$384,012	\$395,959	\$401,403	\$405,417	\$409,471	\$413,565	\$417,701	\$421,878	\$426,097	\$430,338	\$434,661	\$439,068	\$443,568	\$448,162	\$452,810	\$458,533	\$464,342	\$468,016	\$470,676
Administrative/District Facilities, Supplies, and Support Services																			
Supplies	Admin-7	\$57,017	\$18,049	\$7,533	\$7,533	\$7,533	\$7,533	\$7,533	\$7,533	\$7,533	\$7,533	\$7,533	\$7,533	\$7,533	\$7,533	\$7,533	\$7,533	\$7,533	\$7,533
Office Overhead	Admin-8	\$54,683	\$79,812	\$80,610	\$81,416	\$82,230	\$83,053	\$83,883	\$84,722	\$85,569	\$86,425	\$87,289	\$88,162	\$89,044	\$89,934	\$90,834	\$91,742	\$92,659	\$93,586
Travel/Education/Training	Admin-9	\$9,425	\$8,346	\$8,480	\$8,615	\$8,753	\$8,893	\$9,035	\$9,180	\$9,327	\$9,476	\$9,628	\$9,782	\$9,938	\$10,097	\$10,259	\$10,423	\$10,590	\$10,759
Rent/Utilities	Admin-10	\$38,579	\$42,083	\$42,925	\$43,783	\$44,659	\$45,552	\$46,463	\$47,392	\$48,340	\$49,307	\$50,293	\$51,299	\$52,325	\$53,371	\$54,439	\$55,528	\$56,638	\$57,771
IT Expenses/Equipment	Admin-11	\$2,177	\$4,607	\$3,400	\$3,400	\$3,400	\$3,600	\$3,600	\$8,600	\$8,600	\$3,600	\$3,600	\$3,600	\$3,600	\$3,600	\$3,600	\$3,600	\$4,200	\$4,200
Repairs and Maintenance	Admin-12	\$15,775	\$10,125	\$10,338	\$10,555	\$10,776	\$11,003	\$11,234	\$11,470	\$11,710	\$11,956	\$12,207	\$12,464	\$12,726	\$12,993	\$13,266	\$13,544	\$13,829	\$14,119
Fuel	Admin-13	\$16,906	\$15,619	\$15,775	\$15,933	\$16,092	\$16,253	\$16,416	\$16,580	\$16,746	\$16,913	\$17,082	\$17,253	\$17,426	\$17,600	\$17,776	\$17,954	\$18,133	\$18,315
Consulting Services	Admin-14	\$5,205	\$7,976	\$12,000	\$18,600	\$12,000	\$6,900	\$0	\$7,200	\$0	\$19,900	\$12,500	\$20,200	\$0	\$8,032	\$0	\$8,360	\$21,700	\$13,000
Professional Services (i.e. Legal)	Admin-15	\$6,975	\$477	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Advertising and Printing	Admin-16	\$76,027	\$72,466	\$74,247	\$73,594	\$72,769	\$72,041	\$71,321	\$70,608	\$69,902	\$69,203	\$68,511	\$67,825	\$67,147	\$66,476	\$65,811	\$65,153	\$64,501	\$63,856
Subtotal	\$282,769	\$259,560	\$290,307	\$298,939	\$293,213	\$314,628	\$284,485	\$293,285	\$302,727	\$309,313	\$303,943	\$313,318	\$304,938	\$304,636	\$298,717	\$309,026	\$316,083	\$326,639	\$320,243

Table VIII-8 (continued)
Summary of District Revenues and Expenditures

Program #	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
Residential/Commercial Collection Programs																				
Outside Recycling	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Outside Recycling Program Promotion	\$0	\$0	\$0	\$0	\$1,000	\$1,000	\$1,000	\$1,000	\$500	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
OSS-2	\$263,666	\$309,262	\$315,447	\$321,756	\$328,191	\$374,755	\$382,250	\$389,895	\$397,683	\$405,647	\$413,760	\$422,035	\$430,476	\$439,085	\$447,867	\$456,824	\$465,961	\$475,280	\$484,786	
OSS-2.2	\$0	\$0	\$0	\$0	\$0	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
OSS-3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
OSS-4	\$109,259	\$110,200	\$111,192	\$112,193	\$113,202	\$114,221	\$115,249	\$116,286	\$117,333	\$118,389	\$119,454	\$120,529	\$121,614	\$122,709	\$123,813	\$124,927	\$126,052	\$127,186	\$128,331	
OSS-5	\$14,295	\$21,120	\$17,708	\$17,895	\$18,063	\$18,244	\$18,426	\$18,611	\$18,797	\$18,985	\$19,175	\$19,366	\$19,560	\$19,756	\$19,953	\$20,153	\$20,354	\$20,558	\$20,763	
OSS-6	\$350	\$350	\$350	\$354	\$357	\$361	\$364	\$368	\$372	\$375	\$379	\$383	\$387	\$390	\$394	\$398	\$402	\$406	\$410	
OSS-7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
OSS-8	\$13,485	\$29,271	\$29,584	\$29,859	\$30,158	\$30,460	\$30,764	\$31,072	\$31,382	\$31,696	\$32,013	\$32,333	\$32,657	\$32,983	\$33,313	\$33,646	\$33,983	\$34,323	\$34,666	
OSS-9	\$42,000	\$9,744	\$9,841	\$9,940	\$10,039	\$10,140	\$10,241	\$10,341	\$10,448	\$10,558	\$11,191	\$11,626	\$11,972	\$12,228	\$12,585	\$12,973	\$13,362	\$13,763	\$14,176	
Subtotal	\$433,055	\$479,947	\$484,102	\$491,996	\$501,011	\$507,180	\$506,194	\$505,473	\$504,625	\$503,457	\$501,972	\$500,174	\$498,556	\$497,152	\$495,936	\$494,922	\$494,114	\$493,516	\$493,132	
Residential/Commercial/Industrial Market Development Programs																				
Recycling Market Development Grant	\$0	\$125,000	\$225,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Competitive Funding	\$35,988	\$73,575	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	
Buy Recycled Program	\$98,692	\$182,639	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	
City and Village Funding (CVF)	\$74,233	\$57,738	\$58,000	\$58,000	\$58,000	\$58,000	\$58,000	\$58,000	\$58,000	\$58,000	\$58,000	\$58,000	\$58,000	\$58,000	\$58,000	\$58,000	\$58,000	\$58,000	\$58,000	
Subtotal	\$258,913	\$488,972	\$513,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	\$288,000	
Education and Awareness Programs																				
OSS-14	\$17,813	\$11,292	\$11,405	\$11,519	\$11,634	\$11,751	\$11,868	\$11,987	\$12,107	\$12,228	\$12,350	\$12,473	\$12,598	\$12,724	\$12,851	\$12,980	\$13,110	\$13,241	\$13,373	
OSS-15	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Subtotal	\$17,813	\$11,292	\$11,405	\$11,519	\$11,634	\$11,751	\$11,868	\$11,987	\$12,107	\$12,228	\$12,350	\$12,473	\$12,598	\$12,724	\$12,851	\$12,980	\$13,110	\$13,241	\$13,373	
Liter Prevention and Collection Programs																				
Liter Collection	\$35,759	\$30,100	\$30,401	\$30,705	\$31,012	\$31,322	\$31,635	\$31,952	\$32,271	\$32,594	\$32,920	\$33,249	\$33,582	\$33,917	\$34,257	\$34,599	\$34,945	\$35,295	\$35,648	
Beach and River Clean-Ups	\$200	\$200	\$202	\$204	\$206	\$208	\$210	\$212	\$214	\$217	\$219	\$221	\$223	\$225	\$228	\$230	\$232	\$235	\$237	
Adopt-a-Road	\$1,500	\$788	\$796	\$804	\$812	\$820	\$828	\$836	\$845	\$853	\$862	\$870	\$879	\$888	\$897	\$906	\$915	\$924	\$933	
Subtotal	\$37,459	\$31,088	\$31,399	\$31,713	\$32,030	\$32,350	\$32,674	\$33,001	\$33,331	\$33,664	\$34,000	\$34,340	\$34,684	\$35,031	\$35,381	\$35,735	\$36,092	\$36,453	\$36,818	
Other Programs																				
Container Loan	\$228	\$685	\$450	\$455	\$459	\$464	\$468	\$473	\$478	\$482	\$487	\$492	\$497	\$502	\$507	\$512	\$517	\$522	\$528	
Health Department Financial Support	\$38,644	\$24,016	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	
Needle Disposal Campaign	\$500	\$400	\$404	\$408	\$412	\$416	\$420	\$425	\$429	\$433	\$437	\$442	\$446	\$451	\$455	\$460	\$464	\$469	\$474	
Medication Take-Back	\$402	\$400	\$404	\$408	\$412	\$416	\$420	\$425	\$429	\$433	\$437	\$442	\$446	\$451	\$455	\$460	\$464	\$469	\$474	
Disaster Debris Management	\$52,838	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Strategic Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Subtotal	\$112,612	\$25,501	\$60,258	\$60,271	\$60,283	\$60,295	\$60,307	\$60,322	\$60,335	\$60,349	\$60,362	\$60,376	\$60,390	\$60,404	\$60,418	\$60,432	\$60,446	\$60,460	\$60,475	
Total Expenditures	\$1,526,633	\$1,642,519	\$1,791,873	\$1,887,244	\$1,956,642	\$1,987,770	\$1,999,345	\$1,999,222	\$1,999,222	\$1,999,308	\$1,999,388	\$1,999,468	\$1,999,548	\$1,999,628	\$1,999,708	\$1,999,788	\$1,999,868	\$1,999,948	\$1,999,998	\$1,999,998
Difference	\$-27,617	\$-124,169	\$-435,109	\$10,406	\$-95,866	\$-173,028	\$-171,172	\$-148,211	\$-236,441	\$-142,159	\$-133,598	\$-141,430	\$-210,430	\$-210,430	\$-127,960	\$-119,066	\$-126,418	\$-130,263	\$-137,571	\$-127,278
Ending Balance	\$3,619,257	\$3,455,088	\$3,059,979	\$3,070,385	\$2,974,519	\$2,801,491	\$2,650,519	\$2,462,108	\$2,246,667	\$2,104,508	\$1,970,549	\$1,829,119	\$1,618,452	\$1,400,461	\$1,371,366	\$1,244,948	\$1,114,685	\$977,114	\$849,836	\$722,568

IX. District Rules [ORC Section 3734.53(C)]

A. Existing Rules

According to Ohio Revised Code Section 3734.53(C), “the solid waste management plan of a county or joint district may provide for the adoption of rules under division (G) of section 343.01 of the Revised Code after approval of the plan under section 3734.521 or 3734.55 of the Revised Code.” The District reserves the authority for the Board to adopt rules under the provision of Ohio Revised Code.

The following summarizes the current and existing rules of the District:

RULE 2006-01

DEFINITIONS

All capitalized terms used in the Rules adopted by the District Board shall have the meanings established herein:

“Designated Representative” means that person or persons authorized by the District Board to inspect Solid Waste at a Solid Waste Landfill.

“Designated in-District Landfills” means those Solid Waste transfer, disposal, recycling, or resource recovery facilities located within the District and designated in the Plan or as may hereafter become designated pursuant to Sections 343.013, 343.014 or 343.015 of the Revised Code.

“District” means the Ottawa-Sandusky-Seneca Joint Solid Waste Management District with its principal offices located at 602 West State Street, Fremont, Ohio 43420.

“District Board” means the Board of Directors of the District.

“District Fees” means the fees included in Section VIII of the District Plan assessed on the disposal of Solid Waste at Solid Waste Landfills located within the District including any modification of the District Fees pursuant to section 3734.574(D) of the Revised Code.

“District Plan” means the Solid Waste Management Plan of the District for the years 2004-2018 and as the District Plan may from time-to-time be amended.

“Host Community Agreement” means an agreement by and between the District and Designated in-District Landfills.

“Host Community Fees” means fees paid by the Designated in-District Landfills pursuant to a Host Community Agreement by and between the District and the Designated in-District Landfills.

“Ohio EPA Director” means the Director of the Ohio Environmental Protection Agency.

“Pulverized Waste” means solid, non-hazardous waste shredded, crushed, ground or otherwise rendered to such an extent that loads of such material are visually unidentifiable as construction and demolition debris which pulverized material shall be disposed in a Solid Waste Landfill.

“Rule” means the action of the Board of Directors of the District in promulgating, adopting and publishing a rule of the District as reserved in Section IX of the District Plan and authorized by Sections 343.01(G) and 3734.53(C) of the Revised Code, as now existing or hereafter amended.

“Solid Waste” means such unwanted residual solid or semisolid material as results from industrial, commercial, agricultural, and community operations, excluding earth or material from construction, mining or demolition operations, or other waste materials of the type that would normally be included in demolition debris, nontoxic fly ash, spent nontoxic foundry sand, and slag and other substances that are not harmful or inimical to public health, and includes, but is not limited to, garbage, tires, combustible and non-combustible material, street dirt, and debris. “Solid Waste” does not include any material that is an infectious waste or a hazardous waste.

“Solid Waste Landfill” means a solid waste disposal facility permitted by the Ohio EPA Director.

RULE 2006-02

DISTRICT RULE 2006-02 INSPECTION OF MATERIALS DISPOSED IN SOLID WASTE LANDFILLS LOCATED WITHIN THE JURISDICTION OF THE OTTAWA-SANDUSKY-SENECA JOINT SOLID WASTE MANAGEMENT DISTRICT.

APPLICABILITY OF DISTRICT RULE 2006-02

DISTRICT Rule 2006-02 shall be applicable to the owner or operator of any Solid Waste Landfill that accepts Solid Waste for disposal at the Solid Waste Landfill.

APPLICABILITY TO THE LANDFILL

The owner or operator of a Solid Waste Landfill shall permit the Designated Representative to enter upon the premises of the Solid Waste Landfill for the purpose of conducting inspections authorized by District Rule 2006-02(C). The owner or operator of the Solid Waste Landfill shall permit the Board to install cameras to assist the Board and its Designated Representative to conduct all or any portion of the inspection authorized by District Rule 2006-02. No person, municipal corporation, township, or other political subdivision shall prevent or interfere with the Designated Representative's entry upon the premises of a Solid Waste Landfill to perform inspections authorized by District Rule 2006-02.

INSPECTION OF THE OPERATION AND USE OF THE LANDFILL, THE ORIGIN AND COMPOSITION OF MATERIALS DELIVERED TO THE LANDFILL AND RELATED RECORDS.

The owner or operator of the Solid Waste Landfill shall permit the inspection of, and provide access to, all areas and offices of the Solid Waste Landfill necessary to conduct inspections of materials delivered to the Solid Waste Landfill for disposal, including:

1. The places of ingress and egress to the Solid Waste Landfill;
2. Locations where materials are temporarily stored at the Solid Waste Landfill prior to disposal, and locations where materials are discharged or removed from the vehicle, railcar or container used to deliver the materials to the Solid Waste Landfill. All such locations shall meet all of the following criteria:
 - a. The Designated Representative is able to visually identify and recognize the nature and character of the material delivered to the Solid Waste Landfill;
 - b. The Designated Representative is able to observe vehicle, railcar and container identification numbers, labels or markings that permit the Designated Representative to correlate the inspection of the material with the Solid Waste Landfill's records regarding the characterization of that material;
3. The location of, and access to, all of the Solid Waste Landfill's records regarding the: origin, composition, weight or volume of the material delivered to the Solid Waste Landfill.
4. The owner or operator of the Solid Waste Landfill shall permit the inspection of Solid Waste at the Solid Waste Landfill:

- a. At all times when the Solid Waste Landfill accepts material for disposal at the Solid Waste Landfill;
- b. At all times when the Solid Waste Landfill completes the process of compaction and placement of daily cover of the material delivered to the Solid Waste Landfill; and
- c. During the hours of operation of the building or location where the records are maintained to verify the composition, origin, weight or volume of the material, and persons delivering material to the Solid Waste Landfill.

B. Proposed Rules

The District reserves the right to adopt rules under division (G) of section 343.01 and under division (c) of section 3734.53 of the Revised Code. Such rules shall comply with the legislative grant of authority to the District to promulgate such rules and to regulate solid waste services, facilities and operation of the District in accordance with the Plan or amended Plan of the District and/or as authorized by applicable statutes, governmental regulations, local ordinances and rules of the District as now existing or hereafter enacted or amended.

Rule Making Authority – ORC 343.01

The solid waste management plan provides the authority to the Board of Directors to adopt, publish, and enforce all of the rule-making powers authorized by Ohio Revised Code 343.01, Divisions (G)(1), (G)(2), (G)(3) and (G)(4) including the following:

ORC 343.01(G)(1)

To the extent authorized by the solid waste management plan of the district approved under section 3734.521 or 3734.55 of the Revised Code or subsequent amended plans of the district approved under section 3734.521 or 3734.56 of the Revised Code, the board of county commissioners of a county district or board of directors of a joint district may adopt, publish, and enforce rules doing any of the following:

1. Prohibiting or limiting the receipt of solid wastes generated outside the district or outside a service area prescribed in the solid waste management plan or amended plan, at facilities covered by the plan, consistent with the projections contained in the plan or amended plan under divisions (A)(6) and (7) of section 3734.53 of the Revised Code, except that the director of environmental protection may issue an order modifying a rule adopted under division (G)(1) of this section to allow

the disposal in the district of solid wastes from another county or joint solid waste management district if all of the following apply:

- (a) The district in which the wastes were generated does not have sufficient capacity to dispose of solid wastes generated within it for six months following the date of the director's order;
- (b) No new solid waste facilities will begin operation during those six months in the district in which the wastes were generated and, despite good faith efforts to do so, it is impossible to site new solid waste facilities within the district because of its high population density;
- (c) The district in which the wastes were generated has made good faith efforts to negotiate with other districts to incorporate its disposal needs within those districts' solid waste management plans, including efforts to develop joint facilities authorized under section 343.02 of the Revised Code, and the efforts have been unsuccessful;
- (d) The district in which the wastes were generated has located a facility willing to accept the district's solid wastes for disposal within the receiving district;
- (e) The district in which the wastes were generated has demonstrated to the director that the conditions specified in divisions (G)(1)(a) to (d) of this section have been met;
- (f) The director finds that the issuance of the order will be consistent with the state solid waste management plan and that receipt of the out-of-district wastes will not limit the capacity of the receiving district to dispose of its in-district wastes to less than eight years. Any order issued under division (G)(1) of this section shall not become final until thirty days after it has been served by certified mail upon the county or joint solid waste management district that will receive the out-of-district wastes.

ORC 343.01(G)(2)

Governing the maintenance, protection, and use of solid waste collection or other solid waste facilities located within its district. The rules adopted under division (G)(2) of this section shall not establish design standards for solid waste facilities and shall be consistent with the solid waste provisions of Chapter 3734. of the Revised Code and the rules adopted under those provisions. The rules adopted under division (G)(2) of this section may prohibit any person, municipal corporation, township, or other political subdivision from constructing, enlarging, or modifying any solid waste

facility until general plans and specifications for the proposed improvement have been submitted to and approved by the board of county commissioners or board of directors as complying with the solid waste management plan or amended plan of the district. The construction of such a facility shall be done under the supervision of the county sanitary engineer or, in the case of a joint district, a county sanitary engineer designated by the board of directors, and any person, municipal corporation, township, or other political subdivision proposing or constructing such improvements shall pay to the county or joint district all expenses incurred by the board in connection therewith. The sanitary engineer may enter upon any public or private property for the purpose of making surveys or examinations necessary for designing solid waste facilities or for supervising the construction, enlargement, modification, or operation of any such facilities. No person, municipal corporation, township, or other political subdivision shall forbid or interfere with the sanitary engineer or his authorized assistants entering upon such property for that purpose. If actual damage is done to property by the making of the surveys and examinations, a board shall pay the reasonable value of that damage to the owner of the property damaged, and the cost shall be included in the financing of the improvement for which the surveys and examinations are made.

ORC 343.01(G)(3)

Governing the development and implementation of a program for the inspection of solid wastes generated outside the boundaries of this state that are disposed of at solid waste facilities included in the district's solid waste management plan or amended plan. A board of county commissioners or board of directors or its authorized representative may enter upon the premises of any solid waste facility included in the district's solid waste management plan or amended plan for the purpose of conducting the inspections required or authorized by the rules adopted under division (G)(3) of this section. No person, municipal corporation, township, or other political subdivision shall forbid or interfere with a board of county commissioners or directors or its authorized representative entering upon the premises of any such solid waste facility for that purpose.

ORC 343.01(G)(4)

Exempting the owner or operator of any existing or proposed solid waste facility provided for in the plan or amended plan from compliance with any amendment to a township zoning resolution adopted under section 519.12 of the Revised Code or to a county rural zoning resolution adopted under section 303.12 of the Revised Code that rezoned or redistricted the parcel or parcels upon which the facility is to be constructed or modified and that became effective within two years prior to the filing of an application for a permit required under division (A)(2)(a) of section 3734.05 of the Revised Code to open a new or modify an existing solid waste facility.

Rule Making Authority – ORC 3734.53

The solid waste management plan provides the authority to the Board of Directors to adopt, publish, and enforce all of the rule-making powers authorized by Ohio Revised Code 3734.53, Division (C) including the following:

- (1) Prohibiting or limiting the receipt at facilities covered by the plan of solid wastes generated outside the district or outside a prescribed service area consistent with the projections under divisions (A)(6) and (7) of this section, except that the director of environmental protection may issue an order modifying a rule authorized to be adopted under division (C)(1) of this section to allow the disposal in the district of wastes from another county or joint solid waste management district if all of the following apply:
 - (a) The district in which the wastes were generated does not have sufficient capacity to dispose of solid wastes generated within it for six months following the date of the director's order;
 - (b) No new solid waste facilities will begin operation during those six months in the district in which the wastes were generated and, despite good faith efforts to do so, it is impossible to site new solid waste facilities within the district because of its high population density;
 - (c) The district in which the wastes were generated has made good faith efforts to negotiate with other districts to incorporate its disposal needs within those districts' solid waste management plans, including efforts to develop joint facilities authorized under section 343.02 of the Revised Code, and the efforts have been unsuccessful;
 - (d) The district in which the wastes were generated has located a facility willing to accept the district's solid wastes for disposal within the receiving district;
 - (e) The district in which the wastes were generated has demonstrated to the director that the conditions specified in divisions (C)(1)(a) to (d) of this section have been met;
 - (f) The director finds that the issuance of the order will be consistent with the state solid waste management plan and that receipt of the out-of-district wastes will not limit the capacity of the receiving district to dispose of its in-district wastes to less than eight years. Any order issued under division (C)(1) of this section shall not become final until thirty days after it has been

served by certified mail upon the county or joint solid waste management district that will receive the out-of-district wastes.

- (2) Governing the maintenance, protection, and use of solid waste collection, storage, disposal, transfer, recycling, processing, and resource recovery facilities within the district and requiring the submission of general plans and specifications for the construction, enlargement, or modification of any such facility to the board of county commissioners or board of directors of the district for review and approval as complying with the plan or amended plan of the district;
- (3) Governing development and implementation of a program for the inspection of solid wastes generated outside the boundaries of the state that are being disposed of at solid waste facilities included in the district's plan;
- (4) Exempting the owner or operator of any existing or proposed solid waste facility provided for in the plan from compliance with any amendment to a township zoning resolution adopted under section 519.12 of the Revised Code or to a county rural zoning resolution adopted under section 303.12 of the Revised Code that rezoned or redistricted the parcel or parcels upon which the facility is to be constructed or modified and that became effective within two years prior to the filing of an application for a permit required under division (A)(2)(a) of section 3734.05 of the Revised Code to open a new or modify an existing solid waste facility.

C. Rule Approval Process

Proposed rules shall be adopted and enforced by the Board of Directors as provided in Section 343.01(G).



APPENDIX A

RESOLUTION FOR DISTRICT FORMATION



AGREEMENT ESTABLISHING
JOINT SOLID WASTE MANAGEMENT DISTRICT

THIS AGREEMENT is made and entered into this 23 day of March, 1989, by and between the Counties of Ottawa, Sandusky, and Seneca, each being a political subdivision organized and existing under the laws of the State of Ohio (respectively, Ottawa, Sandusky and Seneca County and, collectively, the Counties) under the circumstances summarized in the following recitals:

A. Am. Sub. H.B.592 (the Bill), enacted by the 117th General Assembly of the State of Ohio (The State) and effective June 24, 1988, requires that the board of county commissioners of each county within the State establish and maintain its own "county solid waste management district" or, with the boards of county commissioners of one or more other counties, establish by agreement and maintain a "joint solid waste management district" pursuant to Section 343.01 of the Revised Code, as amended by the Bill, for the purposes of solid waste management planning and providing for, or causing to be provided for, the safe and sanitary management of solid wastes (as defined in Section 3734.01 of the Revised Code, as amended by the Bill) within all of the incorporated and unincorporated territory of the county or joint district; each county and joint district shall have a population of not less than one hundred twenty thousand unless the Board of County Commissioners has obtained an exemption under Section 3734.52 of the Revised Code.

B. Each of the Boards of County Commissioners (the County Boards) of the Counties has determined that coordinated action by the Counties for the purposes of preparing, adopting, submitting and implementing a solid waste management plan for the Counties and providing for, or causing to be provided for, the safe and sanitary management of solid wastes within the Counties is necessary to preserve and promote the public health and welfare of the residents of its particular County and will be of common benefit.

C. Each County Board has determined that, for those purposes and subject to the provisions of the Bill, including uncodified Section 8 thereof, it is necessary and appropriate to enter into this Agreement providing for their establishment of a joint solid waste management district.

NOW THEREFORE, in consideration of the premises and the mutual agreements hereinafter contained, the Counties agree as follows:

Section 1. Definitions

1.01 "Agreement" means this Agreement, as it may be amended or supplemented from time to time.

1.02. "Director" means the Director of Environmental Protection of the State.

1.03 "District" means the joint solid waste management district established by this Agreement, to be known as the "Ottawa, Sandusky, and Seneca Joint Solid Waste Management District".

1.04. "District Board" means the Board of Directors of the District, comprised of the members of the County Boards.

1.05. "District Plan" means the solid waste management plan required to be prepared for the District by the Policy Committee and implemented by the District Board pursuant to and in accordance with Sections 3734.52 through 3734.57 of the Revised Code.

1.06 "Multi-County Area" means all of the incorporated and unincorporated territory within the Counties.

1.07 "Policy Committee" means the solid waste management policy committee required to be established and convened by the District Board pursuant to and in accordance with Section 3734.54 of the Revised Code.

Section 2. Establishment of District.

2.01 The Counties hereby establish the District which shall be comprised of the Multi-County Area.

2.02 Until the District Plan is approved under Section 3734.55 of the Revised Code, (i) the District Board shall perform only such duties and exercise only such powers as pertain to the establishment of the District and to the preparation, adoption, approval and submission of the District Plan to the Director for approval and expend funds only for that purpose and for the purposes otherwise authorized by resolution of the Policy Committee under Section 3734.57 of the Revised Code, and (ii) each County Board shall continue to perform the duties and exercise the powers conferred upon and performed and exercised by each such County Board under Chapter 343 of the Revised Code as that chapter and those duties and powers existed immediately prior to the effective date of the Bill, and any rules adopted by each County Board under division (F) of Section 343.01 of the Revised Code immediately prior to the effective date of the Bill

shall remain in effect within the territory the solid waste management districts of the Counties as they existed on the effective date of the Bill until they are superseded by rules authorized to be adopted under the District Plan approved under Section 3734.55 of the Revised Code.

2.03. Upon the approval of the District Plan under Section 734.55 of the Revised Code, to the extent provided for in the District Plan and permitted by law, all right, title and interest of each County in or to any property or rights under any instrument or agreement or any proceedings before any State or Federal governmental, administrative or judicial authority shall be vested in the District, and the District shall assume and be responsible for the performance of, any then existing contractual obligations of each County.

2.04 Subject to the foregoing provisions of Sections 2.02 and 2.03, the District Board shall have all powers, authority and duties conferred or imposed upon boards of directors of joint solid waste management districts under Chapter 343 and Sections 3734.52 to 3734.57 of the Revised Code and shall have control of and manage the District in accordance with the Bill and Chapters 343 and 3734 of the Revised Code and by laws which it shall adopt in accordance therewith for the regulation of its affairs and the conduct of its business.

Section 3. Payment of Operating Costs and Expenses; Contributions and Acquisition of Property.

3.01. In the event that fees collected by the District are not sufficient for the purpose, the Counties shall share all operating costs and expenses incurred by the District, including costs and expenses incurred by the Policy Committee in the preparation of the District Plan, in the same proportions that the populations of the respective Counties, as reported in the most recent decennial census of the United States Bureau of Census, bear to the total population of all of the Counties as reported in that census. The most recent census information and the resultant proportions in which those costs and expenses are to be shared are set forth in Exhibit A and shall be updated from time to time as new decennial census information becomes available.

3.02. In the further event that the District Board or the Policy Committee uses an employee of a County in the service of the District, including without limitation a County sanitary engineer or employee in its sanitary engineering department, the County employing that person shall provide to the District Board information necessary to determine the direct cost and expense to that County of the provision of that employee's service to the District, and the Counties shall share that cost and expense in the same proportion as operating costs and expenses paid directly by the District are shared.

3.03. All amounts advanced by a County to pay operating costs and expenses of the District at the direction of the District Board shall be deemed to be costs and expenses of the District and shall be shared by the Counties in the same proportions as operating costs and expenses paid directly by the District are shared.

3.04. A County shall be entitled to be reimbursed for the cost and expense to that County of the provision of an employee's service to the District or operating costs and expenses of the District advanced by the County at the direction of the District Board only upon invoice submitted to the fiscal officer of the District, together with appropriate and supporting documentation. The District Board shall establish procedures for making payments required to be made by each County in satisfaction of its share of any operating costs and expenses incurred by the District, including costs and expenses resulting from the provision by another County of an employee's service to the District or advanced by a County to pay operating costs and expenses of the District at the direction of the District Board.

3.05 No real or personal property or any rights or interests therein are being contributed by any County to the District at this time. In the event that real or personal property or any rights or interests therein are proposed to be contributed by a County to the District in the future, the respective rights of the Counties in that property, or rights or interests therein, including the rights of any County to division and distribution of that property upon withdrawal of that County from the District, shall be established by an agreement supplemental to this Agreement approved by the County Board of each County that is a party hereto at such time. The respective rights of the Counties in any real or personal property, or rights or interests therein, acquired by the District including the rights of any County to division and distribution of that property upon withdrawal of that County from the District shall be established by the District Board not later than the time of such acquisition.

Section 4. Miscellaneous

4.01. Notices. All notices, certificates, requests or other communications hereunder shall be in writing and shall be deemed to be given when mailed, postage prepaid, addressed as follows:

A duplicate copy of each notice, certificate, requests or other communication given hereunder by one County to another County also shall be given to the other County. Each County may, by notice given hereunder, designate any further or different addresses to which subsequent notices, certificates, requests or other communications shall be sent.

4.02 Extent of Covenants; No Personal Liability. All covenants, stipulations, obligations and agreements of a County contained in this Agreement are and shall be deemed to be covenants, stipulations, obligations and agreements of that County to the full extent authorized by law and permitted by the Constitution of the State. No covenant, stipulation, obligation or agreement of a County contained in this Agreement shall be deemed to be a covenant, stipulation, obligation or agreement of any present or future member, officer, agent or employee of that County in other than that person's official capacity.

4.03 Binding Effect. This Agreement shall inure to the benefit of and shall be binding upon each County and their respective successors and assigns, provided that this Agreement shall not be assigned by any party without the consent of the other parties.

4.04. Amendments, Changes and Modifications. This Agreement may not be effectively amended, changed, modified or added to except by an instrument executed in the same manner as this Agreement approved by the County Board of each County that is a party hereto at such time.

4.05 Counterparts. This Agreement may be executed in any number of counterparts, each of which shall be regarded as an original and all of which shall constitute but one and the same instrument.

4.06 Severability. In case any section or provision of this Agreement, or any covenant, stipulation, obligation, agreement, act, or action, or part thereof made, assumed, entered into, or taken thereunder or any application thereof, is for any reason held to be illegal or invalid, such illegality or invalidity shall not affect the remainder thereof or any other section or provision thereof or any other covenant, stipulation, obligation, agreement, act or action or part thereof, made, assumed, entered into, or taken thereunder (except to the extent that such remainder or section or provision or other covenant, stipulation, obligation, agreement, act or action or part thereof is wholly dependent for its operation on the provision determined to be invalid), which shall be construed and enforced as if such illegal or invalid portion were not contained therein, nor shall such illegality or invalidity of any application thereof affect any legal and valid application thereof, and each such section, provision, covenant, stipulation, obligation, agreement, act, or action, or part thereof shall be deemed to be effective, operative, made, entered into or taken in the manner and to the full extent permitted by law.

4.07 Construction. The terms used in this Agreement shall be construed so as to be consistent with, and to give effect to, any applicable State or federal laws or regulations issued thereunder, but otherwise so as to confer the fullest possible authority upon the Counties and the District to accomplish the purposes of this Agreement.

4.08. Captions and Headings. The captions and headings in this Agreement are for convenience only and in no way define, limit or describe the scope or intent of any provisions or sections of this Agreement.

4.09. Laws of State Govern. This Agreement shall be deemed to be an agreement made under the laws of the State and for all purposes shall be governed by and construed in accordance with the laws of the State.

IN WITNESS WHEREOF, each County has caused this Agreement to be executed by its duly authorized officers as of the date set forth above.

APPROVED AS TO FORM:

COUNTY OF OTTAWA, OHIO

Lowell S. Peterson
by Kim T. ... Assistant
Prosecuting Attorney
County of Ottawa, Ohio

By [Signature]
County Commissioner

By [Signature]
County Commissioner

By [Signature]
County Commissioner

APPROVED AS TO FORM:

COUNTY OF SANDUSKY, OHIO

[Signature]
Asst. Prosecuting Attorney
County of Sandusky, Ohio

By [Signature]
County Commissioner

By [Signature]
County Commissioner

By [Signature]
County Commissioner

APPROVED AS TO FORM:

COUNTY OF SENECA, OHIO

[Signature]
Prosecuting Attorney
County of Seneca, Ohio

By [Signature]
County Commissioner

By [Signature]
County Commissioner

By [Signature]
County Commissioner

EXHIBIT A

Based on the Ohio Legal Director, 1988, the respective populations of the Counties and their respective percentage share of the operating costs and expenses of the Districts are as follows:

<u>COUNTY</u>	<u>POPULATION</u>	<u>APPROXIMATE PERCENTAGE OF COSTS AND EXPENSES</u>
Ottawa	40,076	24.30
Sandusky	63,267	38.36
Seneca	<u>61,600</u>	<u>37.34</u>
TOTAL	164,943	100.00%



APPENDIX B

PUBLIC NOTICES FOR PUBLIC HEARING AND PUBLIC COMMENT



PUBLIC NOTICE – OTTAWA-SANDUSKY-SENECA JOINT SOLID WASTE MANAGEMENT DISTRICT

Public Comment Period for Draft Solid Waste Management Plan

The Ottawa-Sandusky-Seneca Joint Solid Waste District (District) is establishing a 30-day written comment period (Monday, July 11, 2016 through Tuesday, August 9, 2016) on the draft solid waste management plan (Ohio Revised Code Section 3734.55). Written comments should be sent to Mr. Tim Wasserman, District Director, Ottawa-Sandusky-Seneca Joint Solid Waste District, 1875 East State Street, Fremont, OH 43420. The Draft Plan is available for review on the District's website at: www.recycleoss.org or at the following locations:

Ottawa-Sandusky-Seneca
Joint Solid Waste District
1875 East State Street
Fremont, OH 43420

Ottawa County Courthouse
Commissioner's office
315 Madison Street
Port Clinton, OH 43452

Seneca County Commissioner's Office
111 Madison Street
Tiffin, OH 44883

Sandusky County Commissioner's Office
622 Croghan Street
Fremont, OH 43420

Please call (419) 334-7222 with any questions about the Plan Update or the opportunity to review a copy.

The District will hold a public hearing to obtain oral comments regarding the Draft Plan on Wednesday, August 17, 2016 at 10:00 a.m. at the District's Office, 1875 East State Street, Fremont, OH 43420 as required by Sections 3734.54 and 3734.55 of the Ohio Revised Code.

The District has prepared a draft solid waste management plan as required by Section 3734.54 of the Ohio Revised Code. The Draft Plan includes a solid waste facility inventory, projections and strategies, facilities and programs to be used, an analysis of progress made toward achieving state waste reduction goals, cost to finance the plan, and District rules.

This Draft Plan is an update to a previously approved solid waste plan. This Plan includes the following programs: curbside recycling, drop-off recycling, yard waste management, household hazardous waste recycling, scrap tire recycling, automobile batteries and used oil, electronic waste management, grant programs, education and awareness programs and litter prevention.

The Draft Plan includes a demonstration of access to capacity that determines there is more than fifteen years of landfill capacity available to the District. Under this Plan, the Board of Commissioners is authorized to designate facilities in accordance with Section 343.014 of the Ohio Revised Code.

The District achieves the State of Ohio 90% recycling access goal demonstration through numerous curbside and drop-off recycling programs throughout the District. The District currently funds plan programs and current operations through a disposal fee of \$1.50 per ton for in-district waste, \$3.00 per ton for out-of-district waste, and \$1.50 per ton for out-of-state waste which is collected at the District's two landfills. In addition, the District also collects contract fees under the following specific conditions: \$1.50/ton on in-district solid waste that is sent to landfills with which the District has negotiated a designation agreement, \$1.50/ton on each ton of out-of-state solid waste that is deposited in either of the two in-district landfills, and \$1.50/ton on each ton of out-of-district solid waste from "joint use" solid waste districts per contracts with in-district landfills. The District is not increasing any fees with the approval of this Plan Update.

PUBLIC NOTICE – OTTAWA-SANDUSKY-SENECA JOINT SOLID WASTE MANAGEMENT DISTRICT

Public Hearing for Draft Solid Waste Management Plan

The Ottawa-Sandusky-Seneca Joint Solid Management District (District) is scheduling a public hearing to obtain oral comments regarding the District's draft Solid Waste Plan on Wednesday, August 17, 2016 at 10:00 a.m. at the District's Office, 1875 East State Street, Fremont, OH 43420 as required by Sections 3734.54 and 3734.55 of the Ohio Revised Code.

The Draft Plan is available for review on the District's website at: www.recycleoss.org or at the following locations:

Ottawa-Sandusky-Seneca
Joint Solid Waste District
1875 East State Street
Fremont, OH 43420

Ottawa County Courthouse
Commissioner's office
315 Madison Street
Port Clinton, OH 43452

Seneca County Commissioner's Office
111 Madison Street
Tiffin, OH 44883

Sandusky County Commissioner's Office
622 Croghan Street
Fremont, OH 43420

Please call (419) 334-7222 with any questions about the Plan Update or the opportunity to review a copy.

The draft Solid Waste Plan includes a solid waste facility inventory, projections and strategies, facilities and programs to be used, an analysis of progress made toward achieving state waste reduction goals, cost to finance the plan and District rules.

This draft Plan is an update to a previously approved solid waste plan. This Plan includes the following programs: curbside recycling, drop-off recycling, yard waste management, household hazardous waste recycling, scrap tire recycling, automobile batteries and used oil, electronic waste management, grant programs, education and awareness programs and litter prevention.

The draft Plan includes a demonstration of access to capacity that determines there is more than fifteen years of landfill capacity available to the District. Under this Plan, the Board of Commissioners is authorized to designate facilities in accordance with Section 343.014 of the Ohio Revised Code.

The District achieves the State of Ohio 90% recycling access goal demonstration through numerous curbside and drop-off recycling programs throughout the District. The District currently funds plan programs and current operations through a disposal fee of \$1.50 per ton for in-district waste, \$3.00 per ton for out-of-district waste and \$1.50 per ton for out-of-state waste which is collected at the District's two landfills. In addition, the District also collects contract fees under the following specific conditions: \$1.50/ton on in-district solid waste that is sent to landfills with which the District has negotiated a designation agreement and 50 cents per ton on each ton of out-of-state solid waste through a host community agreement with the landfills located within the District. The District is not increasing any fees with the approval of this Plan Update.

Advertiser:

OSS SOLID WASTE DISTRICT

1875 E STATE ST
FREMONT

OH 43420

AFFIDAVIT OF PUBLICATION

Newspaper: MCO-Ptc-Port Clinton News Herald

LEGAL NOTICE
ATTACHED

STATE OF OHIO

RE: Order #:0001415566

Account #:MCO-F118240
Total Amount of Claim:\$370.39

I, J M Macken, Sales Assistant

for the above mentioned newspaper, hereby certify that the attached
advertisement appeared in said newspaper on the following dates:

07/09/16

Last Run Date :07/09/2016

Subscribed and sworn to me this 15 day of July, 2016

Dedra Petty
NOTARY PUBLIC



Dedra Petty
Notary Public, State of Ohio
My Commission Expires
April 3, 2017

**PUBLIC COMMENT PERIOD ON
THE OTTAWA-SANDUSKY-SENECA
JOINT
SOLID WASTE MANAGEMENT
DISTRICT PLAN**

The Ottawa-Sandusky-Seneca Joint Solid Waste Management District (OSS) Policy Committee is announcing a thirty-day public review and comment period for the five-year Solid Waste Management Plan Update. The public comment period will start on Monday July 11th, 2016 until Tuesday August 9th, 2016. The Policy Committee will conduct a public hearing on Wednesday, August 17th, 2016 at 10:00 a.m. at the District office 1875 E. State Street, Fremont, OH 43420.

The plan will be available at the locations listed at the end of this notice for the public to review.

The version of the Solid Waste Management Plan under which the District is currently operating was approved by the Ohio Environmental Protection Agency on September 16th, 2010. As required by law, the OSS Joint Solid Waste Policy Committee has reviewed and revised the plan. The plan update continues the District policies and programs that were established in previous plans. In the plan update, the District commits to comply with the State Solid Waste Management Plan Goal #1, which includes a requirement that the District show access to recycling opportunities for a minimum of 90 percent of the population. Opportunities include drop-off recycling and curbside recycling. The state plan provides a formula to determine how much credit each type of recycling program is assigned toward reaching the 90% access goal.

The District designates disposal facilities to which solid waste must be delivered. In the updated plan, the Board of Directors of the OSS Joint Solid Waste Management District is authorized to continue to designate facilities in accordance with Section 343.014 of the Ohio Revised Code.

The District currently funds plan programs and current operations through a disposal fee of \$1.50 per ton for in-district waste, \$3.00 per ton for out-of-district waste and \$1.50 per ton for out-of-state waste which is collected at the District's two landfills. In addition, the District also collects contract fees under the following specific conditions: \$1.50/ton on in-district solid waste that is sent to landfills with which the District has negotiated a designation agreement and 50 cents per ton on each ton of out-of-state solid waste through a host community agreement with the landfills located within the District. The District is not increasing any fees with the approval of this plan update.

In the event that one of the landfills in the District closes or the amount of waste disposed of in the in-district landfills is reduced so that the disposal fee is no longer adequate to fund the programs that are required in the plan, the District will approve and seek ratification of a generation fee. The plan demonstrates the circumstances under which a \$9.00 per ton generation fee will provide adequate funding.

In the plan, the District reserves the right to make and enforce rules to the fullest extent authorized by Ohio law. The District currently has 2 rules and is not proposing any new rules for this Plan Update.

The District requests that all written comments on the plan be submitted to the attention of the OSS Solid Waste District, Tim Wasserman, Director, 1875 E. State Street, Fremont, OH 43420 so that the comments are received no later than Tuesday, August 9th, 2016 at 4:30 p.m.

Questions may be addressed to Director Tim Wasserman 419-334-7222, weekdays between the hours of 8:00 a.m. and 4:30 p.m.

**THE SOLID WASTE MANAGEMENT
PLAN WILL BE AVAILABLE FOR
PUBLIC REVIEW AND COMMENT
AT THE FOLLOWING LOCATIONS
AND ONLINE AT
WWW.RECYCLEOSS.ORG**

Ottawa County:
Ottawa County Commissioner's Office
315 Madison Street
Port Clinton, OH 43452

Sandusky County:
Sandusky County Commissioner's Office
622 Croghan Street
Fremont OH 43420

OSS Solid Waste District Office
1875 E. State Street
Fremont, OH 43420

Seneca County:
Seneca County Commissioner's Office
111 Madison Street
Tiffin OH 44883
(Pub: PTC, Jul 9, 16#1415566)

The News - Messenger

A GANNETT COMPANY

Media

Advertiser:

OSS SOLID WASTE DISTRICT

1875 E STATE ST

FREMONT

OH 43420

AFFIDAVIT OF PUBLICATION

Newspaper: MCO-Fre-Fremont News Messenger

LEGAL NOTICE
ATTACHED

STATE OF OHIO

RE: Order #:0001415542

Account #:MCO-F118240
Total Amount of Claim:\$551.23

I, _____, Sales Assistant

for the above mentioned newspaper, hereby certify that the attached advertisement appeared in said newspaper on the following dates:

07/09/16

Last Run Date :07/09/2016

Subscribed and sworn to me this 15 day of July, 2016



NOTARY PUBLIC



Dedra Petty
Notary Public, State of Ohio
My Commission Expires
April 3, 2017

**PUBLIC COMMENT PERIOD ON
THE OTTAWA-SANDUSKY-SENECA
JOINT
SOLID WASTE MANAGEMENT
DISTRICT PLAN**

The Ottawa-Sandusky-Seneca Joint Solid Waste Management District (OSS) Policy Committee is announcing a thirty-day public review and comment period for the five-year Solid Waste Management Plan Update. The public comment period will start on Monday July 11th, 2016 until Tuesday August 9th, 2016. The Policy Committee will conduct a public hearing on Wednesday, August 17th, 2016 at 10:00 a.m. at the District office 1875 E. State Street, Fremont, OH 43420.

The plan will be available at the locations listed at the end of this notice for the public to review.

The version of the Solid Waste Management Plan under which the District is currently operating was approved by the Ohio Environmental Protection Agency on September 16th, 2010. As required by law, the OSS Joint Solid Waste Policy Committee has reviewed and revised the plan. The plan update continues the District policies and programs that were established in previous plans. In the plan update, the District commits to comply with the State Solid Waste Management Plan Goal #1, which includes a requirement that the District show access to recycling opportunities for a minimum of 90 percent of the population. Opportunities include drop-off recycling and curbside recycling. The state plan provides a formula to determine how much credit each type of recycling program is assigned toward reaching the 90% access goal.

The District designates disposal facilities to which solid waste must be delivered. In the updated plan, the Board of Directors of the OSS Joint Solid Waste Management District is authorized to continue to designate facilities in accordance with Section 343.014 of the Ohio Revised Code.

The District currently funds plan programs and current operations through a disposal fee of \$1.50 per ton for in-district waste, \$3.00 per ton for out-of-district waste and \$1.50 per ton for out-of-state waste which is collected at the District's two landfills. In addition, the District also collects contract fees under the following specific conditions: \$1.50/ton on in-district solid waste that is sent to landfills with which the District has negotiated a designation agreement and 50 cents per ton on each ton of out-of-state solid waste through a host community agreement with the landfills located within the District. The District is not increasing any fees with the approval of this plan update.

In the event that one of the landfills in the District closes or the amount of waste disposed of in the in-district landfills is reduced so that the disposal fee is no longer adequate to fund the programs that are required in the plan, the District will approve and seek ratification of a generation fee. The plan demonstrates the circumstances under which a \$9.00 per ton generation fee will provide adequate funding.

In the plan, the District reserves the right to make and enforce rules to the fullest extent authorized by Ohio law. The District currently has 2 rules and is not proposing any new rules for this Plan Update.

The District requests that all written comments on the plan be submitted to the attention of the OSS Solid Waste Director, Tim Wasserman, Director, 1875 E. State Street, Fremont, OH 43420 so that the comments are received no later than Tuesday, August 9th, 2016 at 4:30 p.m.

Questions may be addressed to Director Tim Wasserman 419-334-7222, weekdays between the hours of 8:00 a.m. and 4:30 p.m.

**THE SOLID WASTE MANAGEMENT
PLAN WILL BE AVAILABLE FOR
PUBLIC REVIEW AND COMMENT
AT THE FOLLOWING LOCATIONS
AND ONLINE AT
WWW.RECYCLEOSS.ORG**

Ottawa County:
Ottawa County Commissioner's Office
315 Madison Street
Port Clinton, OH 43452

Sandusky County:
Sandusky County Commissioner's Office
622 Croghan Street
Fremont OH 43420

OSS Solid Waste District Office
1875 E. State Street
Fremont, OH 43420

Seneca County:
Seneca County Commissioner's Office
111 Madison Street
Tiffin OH 44883

(Pub: FRE, Ju9, 16#1415542)

The Advertiser-Tribune

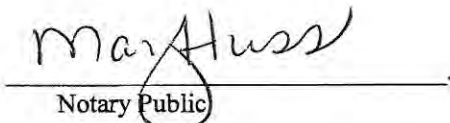
320 NELSON ST. *P.O. BOX 778 * TIFFIN, OHIO 44883
TELEPHONE(419) 448-3200 FAX (419) 448- 3208

State of Ohio)
County of Seneca) ss:

Before me, a Notary Public, in and for said County, personally appeared Michelle Steinmetz, Advertising Director of Ogden Newspapers of Ohio, Inc. and made solemn oath that OSS Solid Waste District , published a display ad 1 time(s) in The Advertiser-Tribune, a newspaper of general circulation, in the county aforesaid on the 3rd day of July, 2016


Michelle Steinmetz, Advertising Director

Sworn to before me and signed in my presence,
this 3rd day of July, 2016.


Notary Public

MARY HUSS
Notary Public, State of Ohio
My Commission Expires 8-24-2019

**PUBLIC COMMENT PERIOD ON THE OTTAWA-SANDUSKY-SENECA JOINT
SOLID WASTE MANAGEMENT DISTRICT PLAN**

The Ottawa-Sandusky-Seneca Joint Solid Waste Management District (OSS) Policy Committee is announcing a thirty-day public review and comment period for the five-year Solid Waste Management Plan Update. The public comment period will start on Monday July 11th, 2016 until Tuesday August 9th, 2016. The Policy Committee will conduct a public hearing on Wednesday, August 17th, 2016 at 10:00 a.m. at the District office 1875 E. State Street, Fremont, OH 43420.

The plan will be available at the locations listed at the end of this notice for the public to review.

The version of the Solid Waste Management Plan under which the District is currently operating was approved by the Ohio Environmental Protection Agency on September 16th, 2010. As required by law, the OSS Joint Solid Waste Policy Committee has reviewed and revised the plan. The plan update continues the District policies and programs that were established in previous plans. In the plan update, the District commits to comply with the State Solid Waste Management Plan Goal #1, which includes a requirement that the District show access to recycling opportunities for a minimum of 90 percent of the population. Opportunities include drop-off recycling and curbside recycling. The state plan provides a formula to determine how much credit each type of recycling program is assigned toward reaching the 90% access goal.

The District designates disposal facilities to which solid waste must be delivered. In the updated plan, the Board of Directors of the OSS Joint Solid Waste Management District is authorized to continue to designate facilities in accordance with Section 343.014 of the Ohio Revised Code.

The District currently funds plan programs and current operations through a disposal fee of \$1.50 per ton for in-district waste, \$3.00 per ton for out-of-district waste and \$1.50 per ton for out-of-state waste which is collected at the District's two landfills. In addition, the District also collects contract fees under the following specific conditions: \$1.50/ton on in-district solid waste that is sent to landfills with which the District has negotiated a designation agreement and 50 cents per ton on each ton of out-of-state solid waste through a host community agreement with the landfills located within the District. The District is not increasing any fees with the approval of this plan update.

In the event that one of the landfills in the District closes or the amount of waste disposed of in the in-district landfills is reduced so that the disposal fee is no longer adequate to fund the programs that are required in the plan, the District will approve and seek ratification of a generation fee. The plan demonstrates the circumstances under which a \$9.00 per ton generation fee will provide adequate funding.

In the plan, the District reserves the right to make and enforce rules to the fullest extent authorized by Ohio law. The District currently has 2 rules and is not proposing any new rules for this Plan Update.

The District requests that all written comments on the plan be submitted to the attention of the OSS Solid Waste District, Tim Wasserman, Director, 1875 E. State Street, Fremont, OH 43420 so that the comments are received no later than Tuesday, August 9th, 2016 at 4:30 p.m.

Questions may be addressed to Director Tim Wasserman 419-334-7222, weekdays between the hours of 8:00 a.m. and 4:30 p.m.

**THE SOLID WASTE MANAGEMENT PLAN WILL BE AVAILABLE FOR PUBLIC REVIEW AND
COMMENT AT THE FOLLOWING LOCATIONS AND ONLINE AT WWW.RECYCLOSS.ORG**

Ottawa County:	Ottawa County Commissioner's Office 315 Madison Street Port Clinton, OH 43452	
Sandusky County:	Sandusky County Commissioner's Office 622 Croghan Street Fremont, OH 43420	OSS Solid Waste District Office 1875 E. State Street Fremont, OH 43420
Seneca County:	Seneca County Commissioner's Office 111 Madison Street Tiffin, OH 44883	

Advertiser:

OSS SOLID WASTE DISTRICT

1875 E STATE ST
FREMONT

OH 43420

AFFIDAVIT OF PUBLICATION

Newspaper: MCO-Ptc-Port Clinton News Herald

LEGAL NOTICE
ATTACHED

STATE OF OHIO

RE: Order #:0001425826

Account #:MCO-F118240
Total Amount of Claim:\$283.94

I, Jay M. Marken, Sales Assistant

for the above mentioned newspaper, hereby certify that the attached advertisement appeared in said newspaper on the following dates:

07/28/16

Last Run Date :07/28/2016

Subscribed and sworn to me this 10 day of August

Jamie Carroll
NOTARY PUBLIC



Jamie Carroll
Notary Public, State of Ohio
My Commission Expires
May 8, 2017

PUBLIC NOTICE - OTTAWA-SANDUSKY-SENECA JOINT SOLID WASTE MANAGEMENT DISTRICT
Public Hearings for Draft Solid Waste Management Plan

The Ottawa-Sandusky-Seneca Joint Solid Waste Management District (District) is scheduling a public hearing to obtain comments regarding the Draft Solid Waste Management Plan on Wednesday, August 17th, 2016 at 10:00 a.m. at the District's Office, 1875 East State Street, Fremont, OH 43420, as required by Sections 3734.54 and 3734.55 of the Ohio Revised Code.

The draft plan is available for review on the District's Website at: www.recycleoss.org or at the following locations:

- Ottawa-Sandusky-Seneca Joint Solid Waste District
1875 East State Street
Fremont, OH 43420
- Ottawa County Courthouse
Columbiana Street
315 Madison Street
Port Clinton, OH 43452
- Seneca County Commissioner's Office
11 Madison Street
Tiffin, OH 44883
- Sandusky County Commissioner's Office
622 Croghan Street
Fremont, OH 43420

Please call (419) 334-7222 with any questions about the Plan Update or the opportunity to review a copy.

The draft solid waste plan includes a solid waste facility inventory, protection, recycling, and other programs to be used in an analysis of progress made toward achieving state waste reduction goals, cost to finance the plan and District rules.

This draft plan is an update to a previously approved solid waste plan. This plan includes the following programs: curbside recycling, drop-off recycling, yard waste management, household hazardous waste recycling, recycling centers, electronic waste management, grant programs, education and awareness programs and litter prevention.

The draft plan includes a demonstration of access to capacity that mines there is more than fifteen years of landfill capacity available to the District. Under this plan, the Board of Commissioners is authorized with designate facilities in accordance with Code on 363.014 of the Ohio Revised Code.

The District achieves the State of Ohio 90% recycling access goal demonstration through numerous curbside programs throughout the District. The District currently funds plan programs and current operations through a disposal fee of \$1.50 per ton for in-district waste, and \$1.50 per ton for out-of-district waste which is collected at the District's two landfills. In addition, the District also collects contract fees under its existing contract with the State of Ohio for the disposal of waste that is sent to landfills with which the District has negotiated a designation agreement and 50 cents per ton on each ton of out-of-state solid waste through a host community agreement with the District. The District is not increasing any fees with the approval of this plan update. (Pub:P.T.C.,Jul28,16#1425826)

The News - Messenger

A GANNETT COMPANY

Media

Advertiser:

OSS SOLID WASTE DISTRICT

1875 E STATE ST
FREMONT

OH 43420

AFFIDAVIT OF PUBLICATION

Newspaper: MCO-Fre-Fremont News Messenger

LEGAL NOTICE
ATTACHED

STATE OF OHIO

RE: Order #:0001425811

Account #:MCO-F118240
Total Amount of Claim:\$418.58

John Naker, Sales Assistant

for the above mentioned newspaper, hereby certify that the attached advertisement appeared in said newspaper on the following dates:

07/28/16

Last Run Date :07/28/2016

Subscribed and sworn to me this 9 day of August 2016

Dedra Petty
NOTARY PUBLIC



Dedra Petty
Notary Public, State of Ohio
My Commission Expires
April 3, 2017

PUBLIC NOTICE - OTTAWA-SANDUSKY-SENECA JOINT SOLID WASTE MANAGEMENT DISTRICT Management Plan

The Ottawa-Sandusky-Seneca Joint Solid Management District (District) is scheduling a public hearing to discuss and accept comments on the District's draft solid waste plan on Wednesday, August 17th, 2016 at 10:00 a.m. at the District's Office, 1875 East State Street, Fremont, OH 43420 as required by Sections 37.54, 34 and 3734.55 of the Ohio Revised Code.

The draft plan is available for review on the District's Website at: www.recyclewss.org or at the following locations:

Ottawa-Sandusky-Seneca Joint Solid Waste District
1875 East State Street
Fremont, OH 43420

Ottawa County Courthouse
Commissioner's Office
315 Madison Street
Port Clinton, OH 43452

Seneca County Commissioner's Office
Madison Street
Tiffin, OH 44885

Sandusky County Commissioner's Office
622 Croghan Street
Fremont, OH 43420

Please call (419) 334-7222 with any questions about the Plan Update or the opportunity to review a copy.

The draft solid waste plan includes a solid waste facility inventory, projections and strategies, facilities and programs to be used, an analysis of progress made toward achieving state waste reduction goals, cost to finance the plan and District rules.

This draft plan is an update to a previously approved solid waste plan. This plan includes the following programs: curbside recycling, drop-off recycling, household hazardous waste, scrap tire recycling, automobile battery and used oil, electronic waste management, grant programs, education and awareness programs and litter prevention.

The draft plan includes a demonstration of access to capacity that determines there is more than fifteen years of landfill capacity available to the District. Under this plan, the Board of Commissioners is authorized to designate facilities in accordance with Section 343.014 of the Ohio Revised Code.

The District achieves the State of Ohio 90% recycling access goal demonstration through numerous curbside and drop-off recycling programs throughout the District. The District currently funds plan programs and operations through a District fee of \$1.50 per ton for in-district waste and \$1.50 per ton for out-of-district waste which is collected at the District's two landfills. In addition, the District has negotiated a curbside agreement with the local community for waste through a host community agreement with the landfills located within the District. The District is not increasing any fees with the approved Plan Update.

(Pub:FR-F118240, 1681425811)

The Advertiser-Tribune

320 NELSON ST. *P.O. BOX 778 * TIFFIN, OHIO 44883
TELEPHONE(419) 448-3200 FAX (419) 448- 3208

State of Ohio)
County of Seneca) ss:

Before me, a Notary Public, in and for said County, personally appeared Michelle Steinmetz, Advertising Manager, of Ogden Newspapers of Ohio, Inc. and made solemn oath that Ottawa-Sandusky-Seneca Joint Solid Waste District published a display ad 1 time(s) in The Advertiser-Tribune, a newspaper of general circulation, in the county aforesaid on or before the 31st day of July, 2016


Michelle Steinmetz, Advertising Manager

Sworn to before me and signed in my presence,
this 18th day of August, 2016.


Notary Public

MARY HUSS
Notary Public, State of Ohio
My Commission Expires 8-24-2019

PUBLIC NOTICE – OTTAWA-SANDUSKY-SENECA JOINT SOLID WASTE MANAGEMENT DISTRICT

Public Hearing for Draft Solid Waste Management Plan

The Ottawa-Sandusky-Seneca Joint Solid Management District (District) is scheduling a public hearing to obtain oral comments regarding the District's draft solid waste plan on Wednesday, August 17th, 2016 at 10:00 a.m. at the District's Office, 1875 East State Street, Fremont, OH 43420 as required by Sections 3734.54 and 3734.55 of the Ohio Revised Code.

The draft plan is available for review on the District's Website at: HYPERLINK "<http://www.recycleoss.org>" www.recycleoss.org or at the following locations:

**Ottawa-Sandusky-Seneca
Joint Solid Waste District
1875 East State Street
Fremont, OH 43420**

**Ottawa County Courthouse
Commissioner's office
315 Madison Street
Port Clinton, OH 43452**

**Seneca County Commissioner's Office
111 Madison Street
Tiffin, OH 44883**

**Sandusky County Commissioner's Office
622 Croghan Street
Fremont, OH 43420**

Please call (419) 334-7222 with any questions about the Plan Update or the opportunity to review a copy.

The draft solid waste plan includes a solid waste facility inventory, projections and strategies, facilities and programs to be used, an analysis of progress made toward achieving state waste reduction goals, cost to finance the plan and District rules.

This draft plan is an update to a previously approved solid waste plan. This plan includes the following programs: curbside recycling, drop-off recycling, yard waste management, household hazardous waste recycling, scrap tire recycling, automobile batteries and used oil, electronic waste management, grant programs, education and awareness programs and litter prevention.

The draft plan includes a demonstration of access to capacity that determines there is more than fifteen years of landfill capacity available to the District. Under this plan, the Board of Commissioners is authorized to designate facilities in accordance with Section 343.014 of the Ohio Revised Code.

The District achieves the State of Ohio 90% recycling access goal demonstration through numerous curbside and drop-off recycling programs throughout the District. The District currently funds plan programs and current operations through a disposal fee of \$1.50 per ton for in-district waste, \$3.00 per ton for out-of-district waste and \$1.50 per ton for out-of-state waste which is collected at the District's two landfills. In addition, the District also collects contract fees under the following specific conditions: \$1.50/ton on in-district solid waste that is sent to landfills with which the District has negotiated a designation agreement and 50 cents per ton on each ton of out-of-state solid waste through a host community agreement with the landfills located within the District. The District is not increasing any fees with the approval of this plan update.



APPENDIX C

**RESOLUTIONS AND CERTIFICATION
STATEMENTS**



Ottawa · Sandusky
Seneca County



JOINT
SOLID WASTE
MANAGEMENT
DISTRICT

TIM WASSERMAN
Director

tw@recycleoss.org

AMY DRUMMER
Assistant Director

ad@recycleoss.org

JIM DARR
Recycling Specialist

jdarr@recycleoss.org

JAMIE COLEMAN
*Community Outreach
Specialist*

jcoleman@recycleoss.org

BOARD OF DIRECTORS

*The County
Commissioners of
Ottawa, Sandusky &
Seneca Counties*

1875 E. STATE STREET

FREMONT, OH 43420

PH: 419.334.7222

1.888.850.7224

FAX: 419.334.8626

Website: www.recycleoss.org

 Printed on Recycled Paper

MEMO

At the Wednesday October 14th, 2015 meeting of the OSS Solid Waste District's Policy Committee: Dan Polter moved and Jim Ellis seconded a motion to approve the draft plan and the certification statement as read. A roll call vote was taken:

Ottawa County:

Jim Sass – yes
Nancy Osborn – yes
Victor Harder – yes
Tracy Colston – yes
Jan Gluth – yes

Sandusky County:

Dan Polter – yes
Bethany Brown – yes
Jim Ellis – yes

Seneca County:

Holly Stacy – yes
Jim Mohrman – yes
Aaron Montz – yes
Gwen Stallard – yes

The motion passed unanimously with 13 yes votes. The signature page was passed around for committee members to sign and is attached to this memo.

CERTIFICATION STATEMENT FOR THE DRAFT PLAN

We as representatives of the Solid Waste Management Policy Committee (SWMPC) of the Ottawa-Sandusky-Seneca 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 fifteen 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 3.0.

Ottawa County

Voting for the Resolution:

Voting Against the Resolution

Victor Harder
Victor Harder

James Sass
James Sass

Tracy Colston
Tracy Colston

Jan M. Gluth
Jan Gluth

Tammy Craig
Tammy Craig

Nancy Osborn
Nancy Osborn

Ottawa County:

Total Votes for the resolution: 6

Total Votes against the resolution: 0

⊛ 10-14-15

13 Policy Committee Members were present.
Vote passed unanimously.

Sandusky County

Voting for the Resolution:

Dan Polter
Dan Polter

Bethany Brown
Bethany Brown

Jim Ellis
Jim Ellis

Voting Against the Resolution

Sandusky County:

Total Votes for the resolution: 3

Total Votes against the resolution: 0

Seneca County

Voting for the Resolution:

Ewen Stallard
Ewen Stallard

Aaron S. Montz
Aaron Montz

Jim Mohrman
Jim Mohrman

Holly M Stacy
Holly Stacy

Voting Against the Resolution

Seneca County:

Total Votes for the resolution: 4

Total Votes against the resolution: 0

Resolution Adopting the Solid Waste Management Plan

Resolution # 2016-01

A RESOLUTION DECLARING THAT THE AMENDED SOLID WASTE MANAGEMENT PLAN FOR THE OTTAWA-SANDUSKY-SENECA JOINT SOLID WASTE MANAGEMENT DISTRICT HAS BEEN ADOPTED.

Whereas, the Ottawa-Sandusky-Seneca Joint Solid Waste Management District (District") completed the draft amended Solid Waste Management Plan ("Plan") and submitted it to the Ohio Environmental Protection Agency for review and comment on November 15, 2015 and the Ohio Environmental Protection Agency provided comments in a non-binding advisory opinion on December 29, 2015.

Whereas, the District's Policy Committee has reviewed the non-binding advisory opinion received from the Ohio Environmental Protection Agency and taken these comments into consideration and incorporated changes into the amended Plan as appropriate;

Whereas the District has conducted a 30-day comment period from July 11, 2016 to August 9, 2016 and a public hearing held on August 17, 2016 to provide the public an opportunity to have comment on the Plan;

NOW, THEREFORE, BE IT RESOLVED that the District Policy Committee:

1. Adopts the amended Draft Plan as the District Plan as amended by the Policy Committee after the public comment period and hearing.
2. Certifies that, to the best of its knowledge and belief, the statements, demonstrations and all accompanying materials that comprise the District's Plan, 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 fifteen-year period covered by the Plan, are accurate and are in compliance with the requirements of the District Solid Waste Management Plan Format Revision 3.0.
3. Directs that copies of the adopted Plan be delivered to the Boards of County Commissioners of Ottawa, Sandusky and Seneca Counties and to the legislative authority of each municipal corporation and township under the jurisdiction of the District for ratification.

This resolution shall be in effect immediately upon its adoption.

Date: Aug. 17, 2016

Ottawa County

Voting for the Resolution:

Voting Against the Resolution

James Sass
JAMES SASS

Tami Craig
TAMI CRAIG

James Warrick
JAMES WARRICK

Tracy Colston
TRACY COLSTON

Ronald Buehler
RONALD BUEHLER

Total Votes for the resolution: 5

Total Votes against the resolution:

Sandusky County

Voting for the Resolution:

Voting Against the Resolution

John C Havens
JOHN HAVENS

Bethany Brown
BETHANY BROWN

Ken Myers
KEN MYERS

Joseph Luc
JOSEPH LUC

Keith Reinbolt
KEITH REINBOLT

Total Votes for the resolution: 5

Total Votes against the resolution:

Seneca County

Voting for the Resolution:

Voting Against the Resolution

Laura Wallrabenstein
LAURA WALLRABENSTEIN

Leanne K. Smith
LEANNE SMITH

Aaron Montz
AARON MONTZ

Holly M. Stacy
HOLLY STACY

Gwen Stallard
GWEN STALLARD

Total Votes for the resolution: 5

Total Votes against the resolution:



APPENDIX D

IDENTIFICATION OF CONSULTANTS RETAINED FOR PLAN PREPARATION



Identification of Consultants for Plan Preparation



Consulting Firm: **GT Environmental, Inc.**
635 Park Meadow Road
Suite 112
Westerville, Ohio 43081

Project Manager: **James A. Skora, CHMM, S.C.**
Senior Manager
(330) 689-1105 Office
(330) 603-0138 Mobile
(330) 688-6211 Fax

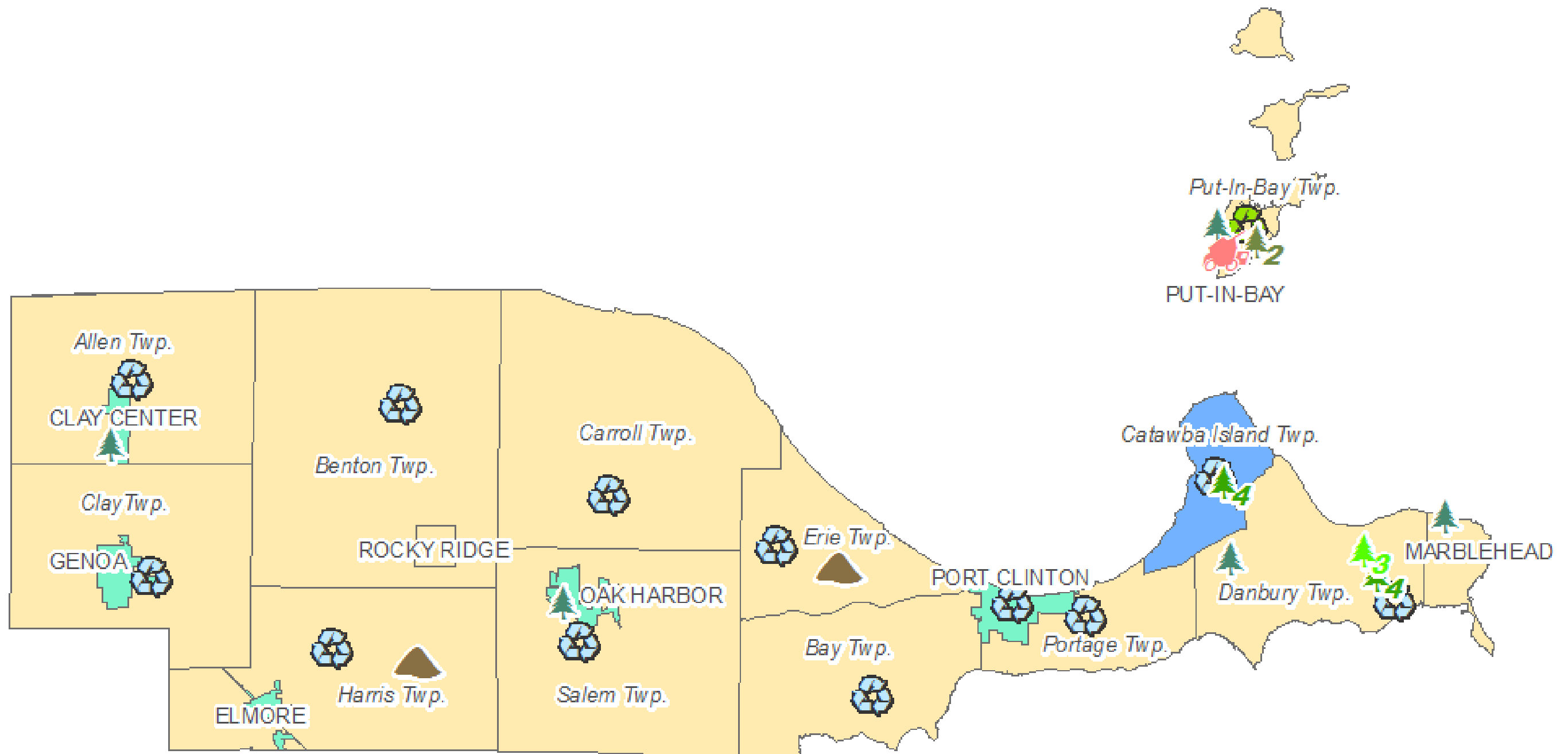
Project Planner: **Molly Kathleen**
Environmental Planner II
(614) 794-3570 Office
(614) 899-9255 Fax



APPENDIX E
DISTRICT MAPS

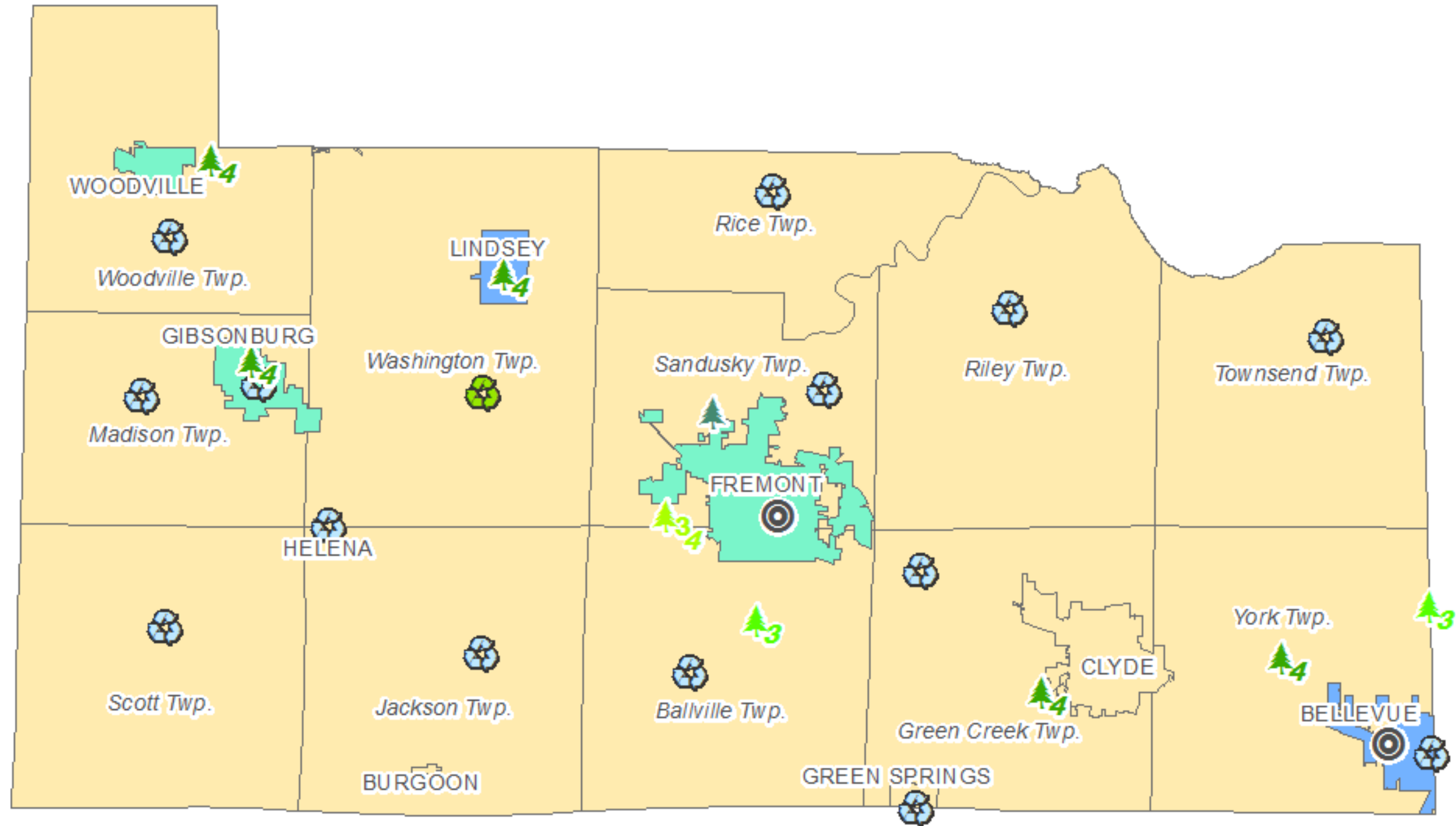



District Facilities – Ottawa County



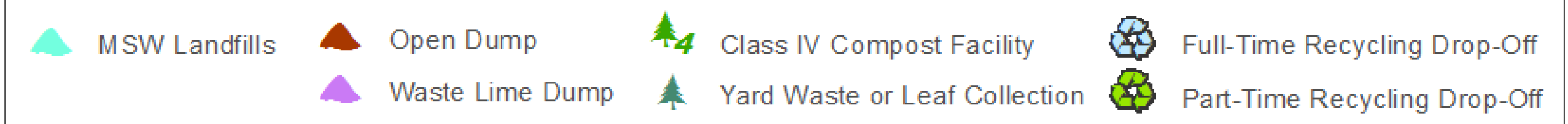
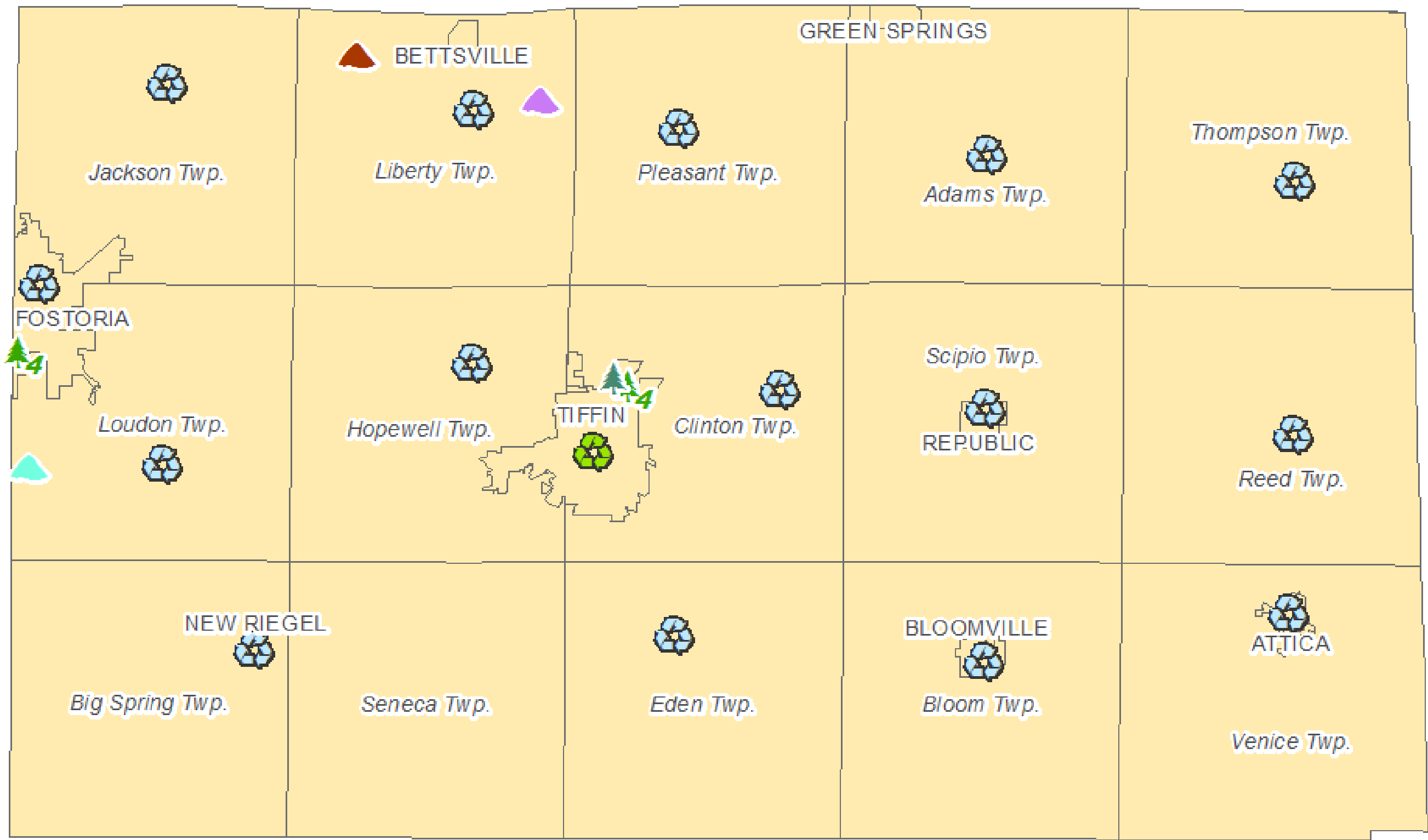
	MSW Landfills		Class II Compost Facility		Non-Subscription Curbside
	Transfer Stations		Class III Compost Facility		Subscription Curbside
			Class IV Compost Facility		Full-Time Recycling Drop-Off
			Yard Waste or Leaf Collection		Part-Time Recycling Drop-Off

District Facilities – Sandusky County



	Non-Subscription Curbside		Class III Compost Facility		Scrap Tire Dump
	Subscription Curbside		Class III/IV Compost Facility		
	Full-Time Recycling Drop-Off		Class IV Compost Facility		
	Part-Time Recycling Drop-Off		Yard Waste or Leaf Collection		

District Facilities – Seneca County





APPENDIX F

INDUSTRIAL SECTOR SURVEY RESULTS



Appendix F
Ottawa, Sandusky, Seneca Joint County Solid Waste Management District
Amount of Industrial Waste Disposed by Standard Industrial Classification (SIC) Category (Tons) as Reported on Industrial Surveys

Type of Waste	20	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	Total
Cardboard	1.5	-	-	-	-	0.3	-	-	-	-	-	-	-	-	2.0	-	-	40.0	1.0	45
Paper	2.0	-	-	-	-	13.3	1.0	-	-	-	-	4.0	-	12.5	7.0	-	-	1.0	1.5	42
Wood	-	-	-	-	-	91.3	-	-	-	-	-	2.5	-	1.0	-	-	-	6.0	2.0	103
Ferrous Metals	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140.0	-	-	1.0	141
Non-Ferrous Metals	-	-	-	-	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	1.0	1
Glass	-	-	-	-	-	0.5	-	0.1	-	-	-	-	-	-	-	-	-	-	0.5	1
Plastic	-	-	-	-	-	-	0.3	0.01	-	-	-	-	-	-	-	-	-	-	5.0	5
Rubber/Tires	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	1
Food	-	-	-	-	-	0.5	-	-	-	-	-	-	-	-	-	-	-	-	0.5	1
Appliances	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Non-Exempt Foundry Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Misc.	-	-	-	-	-	-	-	-	-	-	-	2.5	-	-	-	695.0	-	-	1.0	699
General Solid Waste	-	-	-	-	-	-	-	-	-	345.5	-	-	-	-	1.0	794.0	-	70.0	-	1,211
Total	3.5	-	-	-	-	105.8	1.5	0.1	-	345.5	-	9.0	-	13.5	10.0	1,629.0	-	117.0	14.0	2,249

Source(s) of information:
CY 2013 Industrial Survey Responses

Appendix F
Ottawa, Sandusky, Seneca Joint County Solid Waste Management District
Amount of Industrial Waste Recycled by Standard Industrial Classification (SIC) Category (Tons) as Reported on Industrial Surveys

Type of Waste	20	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	Total
Cardboard	593	-	-	-	114	4	3	3	-	285	-	14,985	1	20	110	3,461	20	-	12	19,612
Paper	78	-	-	-	171	1	118	2	-	83	-	21	-	5	2,390	6	84	-	4	2,962
Wood	20	-	-	-	6,426	2,314	-	-	-	296	-	29	-	50	26	2,336	24	-	6	11,528
Ferrous Metals	85	-	10	-	70	-	-	20	-	106	-	109	50	3,416	1,990	43,405	1,444	-	71	50,775
Non-Ferrous Metals	-	-	-	-	1	0	2	-	-	32	-	1	66	11	11	3	30	-	21	178
Glass	-	-	-	-	-	-	-	-	-	-	-	1,864	-	-	-	-	-	-	1	1,865
Plastic	200	-	-	-	39	-	1	-	-	2,866	-	148	-	0	8	1,913	4	-	6	5,186
Rubber/Tires	-	-	-	-	-	-	-	-	-	1,285	-	1	-	-	-	-	-	-	-	1,286
Food	964	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	964
Appliances	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	3
Non-Exempt Foundry Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	168	-	-	-	-	168
Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	3
Total	1,940	-	10	-	6,822	2,319	124	25	-	4,953	-	17,156	117	3,502	4,705	51,126	1,606	-	123	94,529

Source(s) of information:
CY 2013 Industrial Survey Responses

Appendix F
Ottawa, Sandusky, Seneca Joint County Solid Waste Management District
Amount of Industrial Waste Generated by Standard Industrial Classification (SIC) Category (Tons) as Reported on Industrial Surveys

Type of Waste	20	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	Total
Cardboard	595	-	-	-	114	5	3	3	-	285	-	14,985	1	20	112	3,461	20	40	13	19,656
Paper	80	-	-	-	171	14	119	2	-	83	-	25	-	18	2,397	6	84	1	6	3,005
Wood	20	-	-	-	6,426	2,405	-	-	-	296	-	31	-	51	26	2,336	24	6	8	11,630
Ferrous Metals	85	-	10	-	70	-	-	20	-	106	-	109	50	3,416	1,990	43,545	1,444	-	72	50,916
Non-Ferrous Metals	-	-	-	-	1	0	2	-	-	32	-	1	66	11	11	3	30	-	22	179
Glass	-	-	-	-	-	1	-	0	-	-	-	1,864	-	-	-	-	-	-	1	1,866
Plastic	200	-	-	-	39	-	1	0	-	2,866	-	148	-	0	8	1,913	4	-	11	5,191
Rubber/Tires	-	-	-	-	-	-	-	-	-	1,285	-	1	-	-	-	-	-	-	1	1,287
Food	964	-	-	-	-	1	-	-	-	-	-	-	-	-	0	0	-	-	1	965
Appliances	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	3
Non-Exempt Foundry Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	168	-	-	-	-	168
Misc.	-	-	-	-	-	-	-	-	-	-	-	3	-	-	2	695	-	-	2	701
General Solid Waste	-	-	-	-	-	-	-	-	-	346	-	-	-	-	1	794	-	70	-	1,211
Total	1,944	-	10	-	6,822	2,425	125	25	-	5,298	-	17,165	117	3,515	4,715	52,755	1,606	117	137	96,778

Source(s) of information:
CY 2013 Industrial Survey Responses



APPENDIX G
ANNUAL SURVEYS



January 2014

Dear Solid Waste/Recycling Manager:

The Ottawa, Sandusky, Seneca County Joint Solid Waste District (District) is required to conduct a survey of District governments, businesses and institutions to obtain solid waste recycling and waste reduction information. The purpose of this survey is to gather important data and information that will be used for planning for current and future waste and recycling programs in the District.

To assist the District, we are requesting that you complete the attached survey to the best of your ability so that we may in turn support you with future programs. Please complete as much of the survey as possible. Your assistance with this survey will also help the District achieve the long term goal of reducing the reliance on landfills through increased waste reduction programs and management techniques, allowing you the opportunity to control future costs.

We appreciate your personal attention in the completion of the attached survey. The surveys should be completed using **only** calendar year **2013** data. Please be assured that your establishment will not be identified by name in the District's planning efforts.

Please return the completed survey in the enclosed envelope to GT Environmental, Inc., the District's consultant **by March 28, 2014** or fax your completed survey to 419-334-8626. If you have questions about the survey, please call Molly Kathleen, the District's consultant at (614) 794-3570 x11.

We appreciate your cooperation in completing this survey.

Sincerely,

A handwritten signature in cursive script that reads "Tim Wasserman".

Tim Wasserman
Director

Enclosure

OTTAWA, SANDUSKY, SENECA COUNTY JOINT SOLID WASTE DISTRICT 2013 RECYCLING FACILITY/BROKER/PROCESSOR SURVEY

Confidentiality: The Ottawa, Sandusky, Seneca County Joint Solid Waste District (District) will use the information in this survey for summary purposes only to identify types of wastes that may be further reduced or recycled. **Instructions:** Please complete all of the following survey to the best of your ability. Only include solid waste/recyclable data that is generated from Ottawa, Sandusky and Seneca Counties. Upon completion of this survey, please return the survey by **March 28, 2014**. An addressed envelope is enclosed for your convenience or you can fax the survey to 419-334-8626. If you have any questions regarding the completion of this survey, please call: Molly Kathleen, the District's consultant at (614) 794-3570 x11.

Part 1 - General Information

Name of Company _____
 Address _____
 Township _____ County _____
 City _____ Zip _____
 Contact Person _____ Title _____
 Phone _____ Fax _____

Hours Open to the Public: _____ Days Open to the Public: _____

Part 2 – Recycling Information

1. What is the percentage of recyclables accepted at your facility for residential, commercial and industrial from the District?

_____ % residential _____ % Commercial _____ % industrial

2. What is the percentage of recyclables accepted at your facility for residential, commercial and industrial from the outside of the District?

_____ % residential _____ % Commercial _____ % industrial

The following questions pertain to the in-district totals only (Ottawa, Sandusky and Seneca counties).

3. What is the facility design capacity?

_____ Daily processing capacity in tons _____ Annual processing capacity in tons

4. What is the actual daily and annual processing capacity of your facility?

_____ Daily processing capacity in tons _____ Annual processing capacity in tons

5. In 2013, where did your facility accept material from? Please check all that apply.

District Counties Regional-Multi-Ohio Counties Northern Ohio
 All of Ohio Municipality where business is located Out of State

6. How do you define your facility? Please check all that apply.

Recycling Broker Scrap Yard Buyback Recycling Center
 Drop-off Facility Hauler Collection Licensed Auto Salvage Dealer

7. Is your facility: publicly available private use only

8. Please report the amount of solid waste **recycled in 2013 from Ottawa, Sandusky and Seneca counties on Table 1. The data requested in the recycled column is very important.** This information is used to calculate the District's progress in meeting state and local recycling goals. Enter the data in **tons**. For data

conversions assume 2000 pounds = 1 ton, 3 cubic yards = 1 ton. For motor oil assume 7.5 lbs per gallon and for antifreeze assume 8 lbs per gallon.

Table 1 - Solid Waste Recycling in 2013

Waste Stream Type	Solid Waste Recycled (tons)	From What District Community (ie. Fremont)
Mixed Paper		
Cardboard		
Newsprint		
Office Paper		
Other (specify)		
Fabrics & Cloth		
Wood		
Sawdust Bark		
Board ends		
Pallets		
Aluminum Cans		
Non-Ferrous Metal (Aluminum)		
Steel/tin Food Cans		
Ferrous Metals (iron, steel)		
Copper		
Other Metals (specify)		
Glass		
Mixed Plastics		
PETE (#1)		
HDPE (#2)		
PVC (#4)		
Polypropylene (#5)		
Polystyrene (#6)		
Other Plastics (specify)		
Rubber		
Stone/Clay/Sand		
Concrete		
Non-Exempt Foundry Sand/Slag		
Ash		
Sludge		
Food		
Non-hazardous Chemicals		
Composites		
Used Motor Oil (Residential Only)		
Used Antifreeze (Residential Only)		
Other:		
Totals		

**Return the survey in the enclosed stamped envelope or fax to 419-334-8626
THANK YOU FOR COMPLETING THIS SURVEY!**

OTTAWA, SANDUSKY, SENECA COUNTY JOINT SOLID WASTE DISTRICT 2013 COMMERCIAL/INSTITUTIONAL RECYCLING SURVEY

Confidentiality: The Ottawa, Sandusky, Seneca County Joint Solid Waste District (District) will use the information in this survey for summary purposes only to identify types of wastes that may be further reduced or recycled. **Instructions:** Please complete all of the following survey to the best of your ability. Only include solid waste/recyclable data that is generated from Ottawa, Sandusky and Seneca Counties. Upon completion of this survey, please return the survey by **March 28, 2014**. An addressed envelope is enclosed for your convenience or you can fax the survey to 419-334-8626. If you have any questions regarding the completion of this survey, please call: Molly Kathleen, the District's consultant at (614) 794-3570 x11.

Part I - General Information

Name of Company	_____		
Address	_____		
City		Zip	_____
Contact Person	_____	Phone	_____
No. of Employees	_____	SIC Code	_____

Part II – Waste Recycling

Table 1 –Data recorded in this table should include all of the recyclables generated by your company in 2013 along with the processor/recycler/broker used for each material recycled. Please estimate the quantities of **each type** of material recycled in tons. **The data in the recycled column is used to calculate the District's progress in meeting state and local recycling goals.** For data conversions assume the following: 2000 Pounds = 1 ton, 3 cubic yards = 1 ton, 7.5 lbs per gallon for used oil and 8 lbs per gallon for used antifreeze.

Table 1 –Recycling in 2013

Category	Total Tons Recycled	Processor/Recycler/Broker (Name/Address/Phone)
Mixed Paper		
Cardboard ¹ (use Table 2 if needed)		
Newsprint		
Office Paper		
Other Paper (specify)		
Textiles		
Wood		
Sawdust		
Board Ends		
Pallets		
Aluminum Beverage Containers		
Steel Beverage Containers		
Non-Ferrous Metals (aluminum)		
Ferrous Metals (steel, iron)		
Copper, Brass		
Glass		
PETE Plastic (#1)		
HDPE Plastic (#2)		
PVC Plastic (#3)		
LDPE Plastic (#4)		
Polypropylene Plastic (#5)		
Polystyrene Plastic (#6)		
Other Plastics (specify)		
Rubber (not including tires)		
Passenger Tires		

Category	Total Tons Recycled	Processor/Recycler/Broker (Name/Address/Phone)
Light Truck/Semi Tires		
Tractor Tires		
Composites		
Food		
Appliances (white goods)		
Lead Acid Batteries		
Dry Cell Batteries		
Used Oil (residential only)		
Used Antifreeze (residential only)		
Yard Waste		
Commingled Recyclables		
Other:		
Other:		
Other:		
Other:		
Totals		

¹ The District realizes that commercial businesses may primarily recycle cardboard only but may not have actual weights of the cardboard based on the style of service provided (dumpster service). The District has provided the following table to document the amount of cardboard recycled annually. Simply fill in the size of your dumpster (2,4,6,8 or 10 cubic yard), how full it is when picked up on average (as a percentage) and the number of times the dumpster is emptied each week. Then use the formula in the table below to calculate your annual tonnage of cardboard. An example is given to assist you in the calculation. If you have additional dumpsters, simply perform the same exercise for each separate dumpster. The total tons recycled can then be transferred to the cardboard total in Table 1.

Table 2 – Recycled Cardboard Calculator

Dumpster	Size of Dumpster (cubic Yards) (a)	Percentage Full When Picked Up (b)	No of Pickups per Week (c)	Estimated Cardboard Recycled (Tons) (a) x (b) x (c) x 52 / 20
<i>Example</i>	<i>6 cubic yards</i>	<i>80% full</i>	<i>1 time/week</i>	<i>(6 x 0.80 x 1 x 52 / 20) = 12.48 tons</i>
1				
2				
3				
4				
5				
Total Cardboard Recycled in Tons (Enter in Table 1)				

Return the survey in the enclosed stamped envelope or fax to 419-334-8626

THANK YOU FOR COMPLETING THIS SURVEY!

OTTAWA, SANDUSKY, SENECA COUNTY JOINT SOLID WASTE DISTRICT 2013 COMPOST FACILITY SURVEY

Confidentiality: The Ottawa, Sandusky, Seneca County Joint Solid Waste District (District) will use the information in this survey for summary purposes only to identify types of wastes that may be further reduced or recycled.

Instructions: Please complete all of the following survey to the best of your ability. Only include solid waste/recyclable data that is generated from Ottawa, Sandusky and Seneca Counties. Upon completion of this survey, please return the survey by **March 28, 2014**. An addressed envelope is enclosed for your convenience or you can fax the survey to 419-334-8626. If you have any questions regarding the completion of this survey, please call: Molly Kathleen, the District's consultant at (614) 794-3570 x11.

Part 1 – General Information

Company Name: _____
Address: _____
City, State, Zip _____
Contact Name: _____
Phone Number: _____

Designed Facility Processing Capacity: _____
Actual Tons per day: _____ **Actual Tons per Year:** _____
Hours of Operation per Week: _____

Part 2- Composting Operations in 2013

Material Received From The District	Residential/ Commercial Material (Tons) (A)	Industrial Material (Tons) (B)	Total Material (Tons) (A+B)	Non- Compostables landfilled (TPY)	Final Compost Produced (TPY)
Grass					
Leaves					
Brush					
Other:					
Other:					
Other:					
Other:					
Totals					

TPY = Tons Per Year

Return the survey in the enclosed stamped envelope or fax to 419-334-8626

THANK YOU FOR COMPLETING THIS SURVEY!

OTTAWA, SANDUSKY, SENECA COUNTY JOINT SOLID WASTE DISTRICT 2013 SOLID WASTE HAULER SURVEY

Confidentiality: The Ottawa, Sandusky, Seneca County Joint Solid Waste District (District) will use the information in this survey for summary purposes only to identify types of wastes that may be further reduced or recycled. **Instructions:** Please complete all of the following survey to the best of your ability. Only include solid waste/recyclable data that is generated from Ottawa, Sandusky and Seneca Counties. Upon completion of this survey, please return the survey by **March 28, 2014**. An addressed envelope is enclosed for your convenience or you can fax the survey to 419-334-8626. If you have any questions regarding the completion of this survey, please call: Molly Kathleen, the District's consultant at (614) 794-3570 x11.

Part I – General Information

Company Name: _____
Address: _____
City, State Zip: _____
Contact Name: _____
Phone Number: _____

Part II – Solid Waste Services Provided in 2013

Table 1 – Solid Waste Services by Community in the District

List the City, Township or Villages Serviced	County	Type of Service Provided (see key)	Tons Collected Per Service Provided	Facility Used
<i>Example: City of Fremont</i>	<i>Sandusky</i>	<i>CRTC RRDO CRC</i>	<i>10,500 tons 1,500 tons 2,000 tons</i>	<i>XYZ Landfill ABC Recycling ABC Recycling</i>

Key: **CRTC** Curbside Residential Trash Collection **CRBC** Curbside Residential Bulk Collection
 CRRC Curbside Residential Recyclables Collection **CRYC** Curbside Residential Yard Waste Collection
 RRDO Residential Recycling Drop-Off **CRC** Commercial Recyclables Collection

Part III – 2013 Aggregate Recyclables Collected in the District

Table 2 – Recyclables Collected By Sector

Category	Residential Tons	Commercial Tons	Processor/Recycler/Broker (Names/Address/Phone)
Mixed Paper			
Cardboard			
Newsprint			
Office Paper			
Other Paper (specify)			
Textiles			
Wood			
Sawdust			
Board Ends			
Pallets			
Aluminum Beverage Containers			
Steel Beverage Containers			
Aluminum			
Ferrous Metals/Steel/Iron			
Copper			
Glass			
PETE Plastic (#1)			
HDPE Plastic (#2)			
PVC Plastic (#3)			
LDPE Plastic (#4)			
Polypropylene Plastic (#5)			
Polystyrene Plastic (#6)			
Other Plastics (specify)			
Rubber (not including tires)			
Passenger Tires			
Light Truck/Semi Tires			
Tractor Tires			
Non-Exempt Foundry Sand			
Concrete			
Composites			
Food			
Appliances (white goods)			
Lead Acid Batteries			
Dry Cell Batteries			
Yard Waste			
Commingled Recyclables			
Other:			
Other:			
Other:			
Other:			
Totals			

**Return the survey in the enclosed stamped envelope or fax to 419-334-8626
THANK YOU FOR COMPLETING THIS SURVEY!**

OTTAWA, SANDUSKY, SENECA COUNTY JOINT SOLID WASTE DISTRICT 2013 INDUSTRIAL RECYCLING SURVEY

Confidentiality: The Ottawa, Sandusky, Seneca County Joint Solid Waste District (District) will use the information in this survey for summary purposes only to identify types of wastes that may be further reduced or recycled. **Instructions:** Please complete all of the following survey to the best of your ability. Only include solid waste/recyclable data that is generated from Ottawa, Sandusky and Seneca Counties. Upon completion of this survey, please return the survey by **March 28, 2014**. An addressed envelope is enclosed for your convenience or you can fax the survey to 419-334-8626. If you have any questions regarding the completion of this survey, please call: Molly Kathleen, the District's consultant at (614) 794-3570 x11.

Part I - General Information

Name of Company _____
Address _____
City _____ **Zip** _____
Contact Person _____ **Phone** _____
No. of Employees _____ **SIC Code** _____

Part II – Solid Waste Recycling and Disposal

Table 1 –Data recorded in this table should include all of the materials recycled and disposed by your company in 2013 along with the processor/recycler/broker/landfill/transfer station/incinerator used for each material. Please estimate the quantities of **each type** of material recycled and disposed in tons. **The data in the recycled column is used to calculate the District's progress in meeting state and local recycling goals.** For data conversions assume the following: 2000 Pounds = 1 ton and 3 cubic yards = 1 ton.

Table 1 –Waste Recycling and Disposal in 2013

Category	Total Tons Recycled	Total Tons Disposed	Processor/Recycler/Broker/Landfill/Transfer Station/Incinerator (Name/Address/Phone)
Mixed Paper			
Cardboard			
Newsprint			
Office Paper			
Other Paper (specify)			
Textiles			
Wood			
Sawdust			
Board Ends			
Pallets			
Aluminum Beverage Containers			
Steel Beverage Containers			
Aluminum			
Ferrous Metals/Steel/Iron			
Copper			
Glass			
PETE Plastic (#1)			
HDPE Plastic (#2)			
PVC Plastic (#3)			
LDPE Plastic (#4)			
Polypropylene Plastic (#5)			

Category	Total Tons Recycled	Total Tons Disposed	Processor/Recycler/Broker/Landfill/Transfer Station/Incinerator (Name/Address/Phone)
Polystyrene Plastic (#6)			
Other Plastics (specify)			
Rubber (not including tires)			
Passenger Tires			
Light Truck/Semi Tires			
Tractor Tires			
Non-Exempt Foundry Sand			
Concrete			
Composites			
Food			
Appliances (white goods)			
Lead Acid Batteries			
Dry Cell Batteries			
Yard Waste			
Commingled Recyclables			
Other:			
Other:			
Other:			
Other:			
Totals			

Return the survey in the enclosed stamped envelope or fax to 419-334-8626

THANK YOU FOR COMPLETING THIS SURVEY!

**Ottawa-Sandusky-Seneca Joint Solid Waste Management District
2013 Municipal Yard Waste and Leaf Survey**

Name of City or Village _____

1. Name and phone number of person completing the survey:

_____ Phone: _____

2. Does your city, village or township provide residential autumn leaf collection services?

_____ yes _____ no

3. How are the leaves collected?

_____ vacuuming and blowing into the collection truck

_____ bagged by the resident and hauled in the bags

_____ paper bags only _____ plastic bags allowed

Other method (please explain)

4. How are the collected leaves managed?

_____ taken to a compost facility

Name and location of facility _____

_____ spread on fields

other method (please explain): _____

5. Amount collected in the autumn of 2013? Just give us the size of the truck bed and the number of loads and we'll make the calculations.

_____ size of truck bed _____ number of loads

If you measured the number of tons or cubic yards, please list:

6. Did you provide separate collection for any other type of yard waste in 2013?

Type of material (grass, brush, other) _____

Where was this material taken? _____

How much was diverted from disposal? (please indicate if your answer is in tons or cubic yards)

Return with the addressed envelope provided.



APPENDIX H

**SAMPLE DESIGNATION/HOST COMMUNITY
AGREEMENTS**



HOST COMMUNITY AGREEMENT

THIS AGREEMENT, made and entered into on the 28th day of September, 2011, by and between the Board of Directors (the "Board") of the OTTAWA, SANDUSKY AND SENECA JOINT SOLID WASTE MANAGEMENT DISTRICT organized and existing under the Constitution and laws of the State of Ohio, with offices located at 1875 East State Street, Fremont, Ohio 43420 (the "District"), and SUNNY FARMS LANDFILL, LLC, with offices located at 12500 County Road 18, Fostoria, Ohio 44830 (the "Company").

WHEREAS, the District is a joint solid waste management district established by the Counties of Ottawa, Sandusky and Seneca, pursuant to Chapter 343 of the Ohio Revised Code for the purposes of preparing, adopting, submitting and implementing a solid waste management plan for the District, pursuant to Sections 3734.52, *et seq.* of the Ohio Revised Code, and providing for the safe and sanitary management of solid wastes within all of the incorporated and unincorporated territory of the District; and

WHEREAS, pursuant to Section 3734.53 of the Ohio Revised Code, the District is required to demonstrate and certify the availability of and access to sufficient solid wastes management facility capacity to meet the solid waste management needs of the District for the planning period covered by the District's solid waste management plan; and

WHEREAS, the Director of Ohio EPA approved the District's amended solid waste management plan (the "Plan") on November 15, 2010; and

WHEREAS, the Company is the owner and operator of the Sunny Farms Landfill located at 12500 West County Road 18, Fostoria, Ohio (the "Sunny Farms Landfill") and

WHEREAS, the Board desires to enter into this Host Community Agreement with the Company in order to maintain adequate reserved disposal capacity at the Sunny Farms landfill to handle a substantial portion of the future solid waste management needs of the District; and

WHEREAS, the Company desires to enter into this Host Community Agreement with the District.

WHEREAS, Sunny Farms Landfill is included in the District's updated solid waste management plan as a designated solid waste disposal facility, and for other good and valuable consideration;

NOW, THEREFORE, in consideration of the promises and mutual covenants contained herein, it is agreed between the parties as follows:

Section 1. Term. This Host Community Agreement shall be in effect for a term of ten-and-one-half (10 ½) years commencing on July 1, 2011 and continuing until December 31, 2021, unless terminated earlier pursuant to the conditions set forth herein. This Host Community Agreement may be extended or renewed for one (1) additional term of ten (10) years, upon like terms and conditions, provided that the parties mutually consent in writing to such extension or renewal.

Section 2. Designation. The District has designated the Sunny Farms Landfill pursuant to the Plan and Sections 343.01(I)(2) and 343.014 of the Ohio Revised Code as a solid waste facility that is authorized to receive solid waste that is generated within the District for disposal. It is the understanding of the parties hereto that:

- A. Pursuant to Section 343.01(I)(2) of the Ohio Revised Code, solid waste generated within the District that is intended for disposal may be delivered only to a solid waste disposal, transfer, recycling or resource recovery facility designated by the District unless a waiver has been granted by the District;
- B. In addition to the Sunny Farms Landfill, the District may designate other solid waste disposal, transfer, recycling or resource recovery facilities to receive solid waste generated within the District; and
- C. The District does not intend to require any person, municipality, township, or other political subdivision located within the District to deliver or cause to be delivered any solid wastes to any particular designated solid waste disposal, transfer, recycling or resource recovery facility.

Section 3. Reserved Capacity. During the term of this Host Community Agreement, the Company shall provide disposal capacity at the Sunny Farms Landfill of three hundred fifty (350) tons per day for solid waste generated within the District (“Reserved Capacity”). The Reserved Capacity shall be available each operating day for the disposal of solid wastes that are generated within the District on a “first come - first served” basis. Nothing herein shall permit or require the “banking” of any unused Reserved Capacity as provided herein. The Reserved Capacity assured under this Host Community Agreement shall be provided and made available solely for solid wastes that are generated in the District and delivered to the Sunny Farms Landfill on a per operating day basis. “Operating day” means the normal hours waste is received at the Sunny Farms Landfill during each calendar day that the Sunny Farms Landfill is open for business. The District shall incur no liability to the Company by reason of there being delivered to the Sunny Farms Landfill solid wastes generated within the District in an amount less than the Reserved Capacity.

Section 4. Facility Improvements. On or before December 31, 2014, the Company shall make a good faith application to Ohio EPA for permits to install, modify, construct, enlarge, and operate the Sunny Farms Landfill (the “PTI”) in order to provide the Reserved Capacity as specified herein until December 31, 2024. The Company shall improve the Sunny Farms Landfill in a timely fashion upon Ohio EPA’s approval of and consistent with the PTI, and shall make additional permit applications to Ohio EPA as necessary in order to provide the Reserved Capacity. The Company shall design, build, operate and maintain such construction, enlargements, or modifications to the Sunny Farms Landfill in compliance with all applicable requirements of federal, state and local laws and regulations, and the terms and conditions of this Host Community Agreement. The Company’s obligations to provide the daily Reserved Capacity in Section 3 above shall be contingent upon timely receipt by the Company of all required permits, licenses and approvals.

Section 5. No Price Discrimination. The tipping fees charged by the Sunny Farms Landfill (exclusive of all state, local and District Fees, and any future government applied taxes, surcharges, District Fees and Host Community Fees) for the disposal of solid waste generated within the District shall be at the then applicable gate rate for solid waste of a similar nature generated within the District. This Section shall not be construed as a restriction or limitation prohibiting the Sunny Farms Landfill from charging tipping fees for the disposal of solid waste generated within the District that are less than the tipping fees that the Sunny Farms Landfill charges for the disposal of solid waste generated outside the District.

Section 6. District Fees. Company shall pay to the District each month the following fees (collectively referred to herein as "District Fees):

- A. All disposal and generation fees that the District may levy pursuant to Sections 3734.57 and 3734.573 of the Ohio Revised Code on solid waste delivered to the Sunny Farms Landfill;
- B. An additional Host Community Fee on each ton of solid waste generated outside the State of Ohio that is delivered to the Sunny Farms Landfill in each calendar month. The Host Community Fee to be paid to the District is as follows:
 - 1. Starting July 1, 2011 and continuing through December 31, 2013, an additional Host Community Fee of zero cents (\$0.00) per ton on all solid waste generated outside of the State of Ohio that is delivered to the Sunny Farms Landfill.
 - 2. Starting January 1, 2014 and continuing through December 31, 2014, an additional Host Community Fee of twenty-five cents (\$0.25) per ton on all solid waste generated outside of the State of Ohio that is delivered to the Sunny Farms Landfill.
 - 3. Starting January 1, 2015 and continuing through December 31, 2021, an additional Host Community Fee of fifty cents (\$.50) per ton on all solid waste generated outside of the State of Ohio that is delivered to the Sunny Farms Landfill.
 - 4. Any other fees that the District may be required to collect as a result of changes in Ohio law regarding the fees that the District may levy on solid waste delivered to solid waste facilities located within the District's boundaries.
- C. The fees established or levied by the District pursuant to this Section shall be construed as cumulative and not concurrent. For purposes of this Host Community Agreement, "solid waste" shall be defined as it is defined by the Ohio Revised Code and include those wastes that are subject to disposal fees levied by Ohio EPA pursuant to Section 3734.57 of the

Revised Code. Commencing with the second month following the date of when the Host Community Agreement calls for the Host Community Fee to commence, the Company shall forward to the District each month, on or before the last day of the month, the entire amount of the District Fees to be paid on the tonnage of solid waste that the Sunny Farms Landfill received during the preceding month. The Company shall forward to the District a fully completed District Fee Certification Statement, a copy of which is attached hereto as Appendix A and fully incorporated herein by reference, at the same time that the Company forwards payment of the District Fees.

- D. On and after January 1, 2014 the Company shall not be required to collect and remit to the District the additional Host Community Fee provided in Sections 6(B)(2) and (3) above during any calendar month following a month in which the unencumbered balance of the District's general fund exceeds Five Million Dollars (\$5,000,000.00). The District shall determine the amount of the unencumbered balance of the District's general fund every month on or before the last business day of the month and, if the unencumbered balance exceeds \$5,000,000.00, the District shall provide notice to the Company within the first fifteen (15) business days of the following month.

Section 7. Daily Log; Inspection. The Company shall note the county (and state, if other than Ohio) of generation of each shipment of solid waste accepted for disposal at the Sunny Farms Landfill, as reasonably determined by the Company, on the daily operating log kept for the Sunny Farms Landfill pursuant to Rule 3745-27-19 of the Ohio Administrative Code. A transfer station or other processing station or an incinerator does not constitute a point of generation for purposes of this Section. The Company shall permit representatives of the District to inspect and obtain copies of the daily operating log kept for the Sunny Farms Landfill pursuant to Rule 3745-27-19 of the Ohio Administrative Code. The Company shall also permit representatives of the District to inspect and obtain copies of records (including photographs) maintained by the Sunny Farms Landfill pursuant to regulations, permits, agreements or consent orders by or with Ohio EPA or the Seneca County Board of Health. Any such inspection or copying requested by the District shall be conducted during the Sunny Farms Landfill's normal business hours, and the District shall give the Company at least twenty-four (24) hours prior notice of any such inspection or copying. In the event the District request copies, the Company agrees to make such copies available to the District within a reasonable time and may charge the District not more than Ten Cents (\$0.10) per page for providing the copies.

Section 8. Loudon Township Waste Disposal. The Company agrees that the Township Trustees of Loudon Township of Seneca County shall be entitled to the free disposal for residents that directly transport municipal solid waste to the landfill on clean up days specified for such a purpose by Sunny Farms. For this purpose, up to four hundred (400) tons of municipal solid waste generated within the Township annually shall be permitted at the Sunny Farms Landfill, with a maximum of one hundred ten (110) tons quarterly; provided, however, that the Township Trustees, or such persons as are authorized by the Township Trustees to take advantage of such free disposal, will be required to pay any and all state, local and District Fees,

and any future government applies taxes, surcharges, District Fees and Host Community Fees to which such free disposal is subject. Nothing herein shall require or permit the banking and/or carryover of any unused portion of the four hundred (400) tons of municipal solid waste.

Section 9. Loudon Township Well Testing. The Company agrees to pay the Seneca County Board of Health an amount not to exceed Five Thousand Dollars (\$5,000) per year to offset the cost of testing the off-site water wells listed on Appendix B or located within two thousand (2,000) feet of the Sunny Farms Landfill within Loudon Township and the Seneca County Board of Health shall provide the Company's personnel with the opportunity to be present during sampling and with copies of all analytical results of such testing.

Section 10. Gate Hours. The Company agrees that the normal days and hours of the Sunny Farms Landfill will be as they are expressly stated in permits and/or licenses issued by Ohio EPA or the Seneca County Board of Health.

Section 11. End Use of Facility. The Company agrees to discuss alternative uses of the Sunny Farms Landfill with the District following the closure of the landfill.

Section 12. No Acceptance of Hazardous Waste. The Company agrees that it will not knowingly accept regulated hazardous waste at the Sunny Farms Landfill and further agrees neither the Company nor any related entity will apply for a regulated hazardous waste permit to install for the Sunny Farms Landfill or for any other hazardous waste facility located within the District. For purposes of this Section, "regulated hazardous waste" shall mean waste defined as hazardous pursuant to Ohio law. This provision shall not be construed to preclude the disposal of hazardous waste which is exempt from regulation as household waste as defined in 40 C.F.R. 261.4.

Section 13. New Facilities Within District. In the event one or more new solid waste disposal facilities or additional disposal capacity at existing facilities are constructed within the District, the Company may request the District to decrease the Reserved Capacity specified herein to achieve a more equitable distribution of solid waste generated in the District among the then available solid waste disposal facilities.

Section 14. Rail Car Delivery of Waste. The Company shall comply with the following limitations regarding the railroad transportation of solid waste to the Sunny Farms Landfill:

- A. Solid waste disposal and/or transfer operations to or from rail cars shall occur during the normal landfill gate hours, provided, however, that this limitation shall not apply to Company's receipt of loaded rail cars or return of empty rail cars on the rail spur or side track serving the Sunny Farms Landfill;
- B. Company shall ensure that rail cars delivering solid waste to the Sunny Farms Landfill are covered at all times prior to unloading as required by applicable federal, state, and local laws and regulations.

- C. Company shall remove solid waste from rail cars delivering solid waste to the Sunny Farms Landfill within a reasonable period of time following their arrival;
- D. Company shall at all times maintain free of litter and debris all loading, unloading and storage areas for rail cars delivering solid waste to the Sunny Farms Landfill;
- E. The Company shall maintain all records that are required by Ohio law for the purpose of verifying that rail-delivered automotive shredder residue originating from outside Ohio, that is delivered to the Sunny Farms Landfill, is acceptable for disposal consistent with Sunny Farms Landfill's permit to operate. Sunny Farms Landfill shall properly record and all automotive shredder residue disposed of at the landfill in accordance with Ohio law and provisions of permits and licenses issued to the Landfill by Ohio EPA and the Seneca County Board of Health.

Section 15. Relation to District Plan. Except as explicitly set forth herein to the contrary, nothing contained in this Host Community Agreement shall be construed to limit or restrict, in any manner, whatever regulatory authority the District may have with respect to the Sunny Farms Landfill and its use in connection with the preparation, revision and implementation of the Plan for the District and any amendments thereto.

Section 16. Breach. In the event of the breach of this Host Community Agreement by the Company, the Company shall, upon written notice from the District describing the breach, proceed promptly to remedy such breach. In case such remedial action is not taken or not diligently pursued within thirty (30) days of such written notice, the District may at any time thereafter (regardless of whether the Company cures such breach following the expiration of the thirty (30) day cure period) terminate the designation of the facility as a designated facility in the Plan of the District so long as they comply with applicable laws to change such designation. In addition, the District may terminate the designation of the facility as a designated facility in the Plan of the District any time following any three (3) month period in which the Reserved Capacity is not available on five (5) or more operating days during such three (3) month period for the disposal of solid waste that are generated within the District regardless of whether such lack of availability is rectified in any subsequent three (3) month period. These remedies shall not be construed to limit the District's right to seek other relief for breach of contract, late or unpaid District Fees and Host Community Fees, violations of District rules and regulations, or other violations or breaches of federal, state, local or common law that the District may have a right to pursue.

Section 17. Notices. Written notice required to be given under this Host Community Agreement shall be sufficient if delivered personally or mailed by Certified Mail with return receipt requested with proper postage to Tim Wasserman, Director, Ottawa, Sandusky and Seneca Joint Solid Waste Management District, 1875 East State Street, Fremont, Ohio 43420 and to John Frola, Sunny Farms Landfill, LLC, 12500 County Road 18, Fostoria, Ohio 44830. Any change in address must be given in like manner.

Section 18. Entire Agreement. This Host Community Agreement represents the entire agreement of the parties as to its subject matter and supersedes all other prior written or oral understandings which the parties agree to terminate upon the effective date of this Host Community Agreement; provided, however, that Sunny Farms Landfill shall timely remit all fees owed to the District under agreements between the Company and the District that were in effect prior to the effective date of this Host Community Agreement. This Host Community Agreement may be modified or amended only by a writing signed by both parties.

Section 19. Waiver. No waiver, discharge or renunciation of any claim or right of the District arising out of breach of this Host Community Agreement by the Company shall be effective unless in writing and signed by the Board.

Section 20. Applicable Law. This Host Community Agreement shall be governed by, and construed in accordance with, the laws of the State of Ohio.

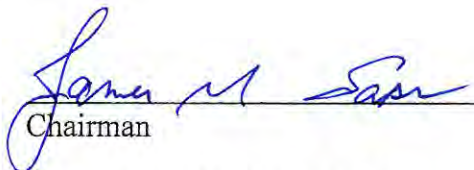
Section 21. Personal Liability. Nothing hereby shall be construed as creating any personal liability on the part of any officer or agent of the District or the Company.

Section 22. Unenforceable Provision. If any provision of this Host Community Agreement is in any way unenforceable, such provision shall be deemed stricken from this Host Community Agreement and the parties agree to remain bound by all remaining provisions. The parties agree to negotiate in good faith a replacement provision for any provision so stricken.

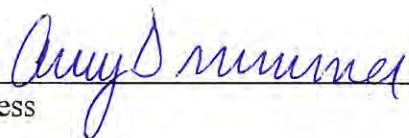
Section 23. Binding Effect. This Host Community Agreement shall be binding upon and shall inure to the benefit of, and be enforceable by and against, the respective successors and assigns of each.

IN WITNESS WHEREOF, the parties have hereunto set their hands on this 28th day of September, 2011.


THE BOARD OF DIRECTORS OF THE
OTTAWA, SANDUSKY AND SENECA
JOINT SOLID WASTE MANAGEMENT
DISTRICT

By: 
Chairman

SUNNY FARMS LANDFILL, LLC


Witness

By: 


Witness

APPENDIX A

Ottawa-Sandusky-Seneca Joint Solid Waste District District Fee Reporting Form

For the month of _____

Facility Name _____

Ohio ID Number 74-00-2 _____

A. \$1.50 per ton for disposal of solid waste generated in the county or joint solid waste management district.

Total Tonnage/Yardage _____ Total Amount Submitted \$ _____

B. \$3.00 per ton for disposal of solid waste generated from outside the county or joint solid waste management district where the solid waste is generated, but inside the state of Ohio.

Total Tonnage/Yardage _____ Total Amount Submitted \$ _____

C. \$1.50 per ton for disposal of solid waste generated from outside the state of Ohio.

Total Tonnage/Yardage _____ Total Amount Submitted \$ _____

Total Fees Submitted _____

I hereby certify that the above statements are true and correct.

Authorized Signature _____

Printed Name and Title _____

Date: _____

Subscribed and sworn before me this

____ day of _____ 20 ____

Notary Public

APPENDIX B
WELL TESTING LOCATIONS

Thomas Meyer
975 S. Twp. Rd. 21
Fostoria, OH 44830

Elizabeth Elchert
1699 S. US 23
Fostoria, OH 44830

Paul Rinebold
11728 W CR 18
Fostoria, OH 44830

Michael Vitt
1499 S. US Rt. 23
Fostoria, OH 44830

Gena Daunhauer
12032 W. Twp. Rd. 108
Fostoria, OH 44830

Jason S. Crow
1766 S US 23
Fostoria, OH 44830

Gary Dillon
1515 S. US 23
Fostoria, OH 44830

Jane Schreiner
1218 S US 23
Fostoria, OH 44830

Allan Kotnik
1504 S US 23
Fostoria, OH 44830

EXTENSION OF DESIGNATION AGREEMENT

This EXTENSION OF DESIGNATION AGREEMENT, made and entered into as of the 16th day of December, 2011, by and between the Board of Directors (the "Board") of the OTTAWA, SANDUSKY AND SENECA JOINT SOLID WASTE MANAGEMENT DISTRICT organized and existing under the Constitution and laws of the State of Ohio, with offices located at 1875 East State Street, Fremont, Ohio 43420 (the "District") and, Erie Co. Commissioner, whose mailing address is 2900 Columbus Avenue (the "Contractor").
Sandusky, Ohio 44870

WHEREAS, in December 2001 the District and Contractor entered into a Designation Agreement that expires on December 31, 2011, a copy of which is attached hereto; and

WHEREAS, the District and Contractor desire to extend the Designation Agreement for an additional ten (10) years.

NOW, THEREFORE, in consideration of the promises and mutual covenants contained herein, the parties agree as follows:

1. Section 9 of the existing Designation Agreement between the District and Contractor shall be amended to read as follows:
 - a. "This Agreement will terminate on December 31, 2021, unless terminated earlier pursuant to the terms provided herein."
2. Any required written notice required to be given to the District under the Designation Agreement shall be given to Tim Wasserman, Director, Ottawa, Sandusky and Seneca Joint Solid Waste Management District, 1875 East State Street, Fremont, Ohio 43420.
3. All of the other provisions of the December 2001 Designation Agreement shall remain in effect.

IN WITNESS WHEREOF, the parties have hereunto set their hands on this 16th day of December, 2011.

THE BOARD OF DIRECTORS OF THE OTTAWA, SANDUSKY AND SENECA JOINT SOLID WASTE MANAGEMENT DISTRICT

By: James Egan
Chairman

Angie Sumner
Witness

X William J. Donaghy

X Thomas Ferrel

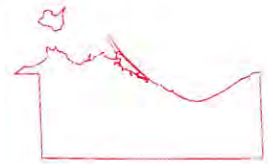
Title: ERIE COUNTY COMMISSIONER

December 8, 2011



ERIE COUNTY COMMISSIONERS

CLERK OF THE BOARD
CAROLYN L. HAUENSTEIN



2900 Columbus Avenue
P.O. Box 1180
Sandusky, Ohio 44871-1180

419-627-7675
fax - 419-627-7692
chauenstein@eriecounty.oh.gov

December 9, 2011

Mr. Tim Wasserman
Joint Solid Waste Management District
602 W. State Street
Fremont, Ohio 43420

Re: Designation Agreement – Ottawa, Sandusky and Seneca Joint Solid Waste
Management District

Dear Mr. Wasserman:

Enclosed please find a certified copy of Resolution No. 11-609 and the Designation Agreement executed by the Erie County Commissioners. Upon obtaining the signature of the Chairman of the Board of Directors of the Joint Solid Waste District, please return a copy to me for my records.

Thank you in advance for your attention to this matter.

Sincerely,

Carolyn L. Hauenstein

Carolyn L. Hauenstein
Clerk of the Board

clh

Enclosures

c: Lisa Beursken, Erie County Solid Waste Management district Coordinator
file

RESOLUTION NO. 11-609

RESOLUTION OF THE BOARD OF COMMISSIONERS OF ERIE COUNTY, OHIO, EXTENDING THE TERMS OF A DESIGNATION AGREEMENT WITH THE OTTAWA, SANDUSKY AND SENECA JOINT SOLID WASTE MANAGEMENT DISTRICT

The Board of County Commissioners of Erie County, Ohio met this 8th day of December, 2011 in Regular Session with the following members present:

William J. Monaghan, Patrick J. Shenigo, and Thomas M. Ferrell, Jr.

Mr. Ferrell introduced the following resolution and moved its adoption:

WHEREAS, the Board of Commissioners of Erie County, Ohio, Section 5 of Resolution No. 94-59, allows Erie County to accept solid waste generated outside of Erie County under certain conditions; and

WHEREAS, the Erie County Landfill was designated by the Ottawa, Sandusky, and Seneca County Solid Waste District to accept waste from same counties under Resolution No. 01-478, terminating on December 31, 2011; and

WHEREAS, it is the desire of this Board to have the Erie County Sanitary Landfill designated to continue receiving waste from Ottawa, Sandusky and Seneca Counties as a precautionary measure, if necessary, for revenue purposes; **NOW THEREFORE**,

BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY, OHIO:

THAT, this Board hereby enters into an extension of the designation agreement with the Ottawa, Sandusky and Seneca Joint Solid Waste Management District for the purpose of designating the Erie County Sanitary Landfill for said District's waste, as previously approved, through December 31, 2021, according to the provisions as outlined in the attached documents; and

THAT, this Board of County Commissioners hereby finds and determines that all formal actions relative to the adoption of this Resolution were taken in an open meeting of this Board; and that all deliberations of this Board and of its committees, if any, which resulted in formal action, were taken in meetings open to the public, in full compliance with applicable legal requirements, including Section 121.22 of the Revised Code.

Mr. Shenigo seconded the motion for the adoption of said resolution; and the roll being called upon its adoption, the vote resulted as follows:

Roll Call: Mr. Ferrell, Aye; Mr. Shenigo, Aye; Mr. Monaghan, Aye

Adopted: December 8, 2011

CERTIFICATE

I, Carolyn L. Hauenstein, Clerk of the Board of County Commissioners of Erie County, Ohio, hereby do certify that the above is a true and correct copy of resolution adopted by said Board under said date, and as same appears in Commissioners' Journal Volume #186.

Carolyn L. Hauenstein Clerk
Board of County Commissioners
of Erie County, Ohio

Approved by County Administrator ABSENT
Michael J. Bixler

prepared by DOES/JRM/III
joint solid waste management district extension/clh



APPENDIX I

DESIGNATION WAIVER RESOLUTION



WAIVER AGREEMENT

On this 4th day of February, 2015, the Board of Directors (the "Board") of the Ottawa, Sandusky and Seneca Joint Solid Waste Management District (the "District"), with offices located at 1875 East State Street, Fremont, Ohio 43420 ("the Board"), and Rumpke of Northern Ohio, ("Rumpke") whose local offices are located at 170 Noble Road East, Shiloh, Ohio and which owns and operates solid waste disposal, collection, transfer, processing and recycling facilities throughout Ohio, enter into this Waiver Agreement, which shall be effective on the date of last execution (the "Effective Date").

RECITALS

WHEREAS, pursuant to R.C. 343.01(I)(2), the District's existing Amended Solid Waste Management Plan (the "Plan"), and rules adopted by the Board, all solid waste generated within the District is required to be delivered only to solid waste facilities designated by the District unless a waiver is granted by the District pursuant to Section 343.01(I)(2) of the Revised Code authorizing the delivery of solid waste to non-designated solid waste facilities; and

WHEREAS, Rumpke has requested the Board to authorize the delivery of District solid waste to its Noble Road Landfill in Shiloh, Ohio.

WHEREAS, pursuant to R.C. 343.01(I)(2), the Board has determined that granting a waiver allowing District solid waste to be delivered to the Noble Road Landfill, under the terms and conditions stated herein, is not inconsistent with the projections contained in the Plan and will not adversely affect the implementation and financing of the Plan.

NOW, THEREFORE, in consideration of the promises and covenants contained herein and the mutual benefits to be gained hereby, the parties incorporate the foregoing recitals and agree as follows:

1. Pursuant to the terms and conditions contained herein, the Board grants and Rumpke accepts this waiver authorizing the delivery of District solid waste to the Noble Road Landfill.

2. In consideration of the waiver granted herein, Rumpke shall pay to the District a fee of One and 50/100 Dollars (\$1.50) for each ton of solid waste generated within the District that is delivered to the Noble Road Landfill (the "Waiver Fee"). The amount of the Waiver Fee may be modified from time-to-time by the Board, in the exercise of the sole discretion of the Board, and shall be an amount equal to the Waiver Fee paid by any other person granted a waiver by the Board. The Waiver Fee shall also at all times be equal to the fee paid to the District as consideration for designation.

3. Rumpke agrees to comply with the provisions of the Plan as currently existing or hereafter amended, as well as all existing District Rules established by the Board and any subsequently adopted rules.

4. Rumpke agrees to maintain daily records at the Noble Road Landfill identifying: (a) the amount of District solid waste in tons accepted at the landfill pursuant to this Waiver Agreement; and (b) the name and address of each hauler that delivers District solid waste to the landfill. The District, or its authorized representatives, shall have the right to inspect and copy the daily records maintained by Rumpke pursuant hereto during the regular business hours of the Noble Road Landfill.

5. Rumpke shall pay the Waiver Fee in accordance with the payment procedures set forth in the subparagraphs below:

a. By the last day of each calendar month, Rumpke shall remit to the District the total Waiver Fees owed for the total number of tons (expressed in tenths of a ton) of District solid waste accepted at the Noble Road Landfill during the previous calendar month.

b. With each monthly payment of the Waiver Fee, Rumpke shall provide the information requested on the "Waiver Fee Submittal Form" prescribed by the District.

c. For each Waiver Fee payment that is past due, Rumpke shall pay, on a monthly basis, an amount equal to the greater of 1.5% or the applicable annual judgment interest rate as set forth in the Ohio Revised Code, whichever is the higher, of the unpaid balance of the past due Waiver Fee.

6. The term of this Waiver Agreement shall be one year commencing on the Effective Date; and shall automatically renew for successive periods of one year each unless either party notifies the other in writing at least sixty (60) days prior to the expiration of the then-current Term of the intent not to allow this Agreement to renew for a successive term; provided, however, that this Waiver Agreement shall cease to be in effect on the date that the Noble Road Landfill becomes a designated solid waste facility by the Board pursuant to R.C. 343.01(I) and/or R.C. 343.014. Except as otherwise provided in this Agreement, the District or Rumpke may terminate this Agreement for any reason by providing ninety (90) days advance written notice to the other party.

7. If the Board determines that Rumpke and/or the Noble Road Landfill has violated or breached any of the payment or reporting obligations contained in this Agreement, Rumpke shall cure such breach within thirty (30) days of receipt of written notice of such breach from the District. If Rumpke fails to cure such breach within thirty (30) days, the District may terminate this Waiver Agreement immediately. Other circumstances which entitle the Board to terminate this Waiver Agreement upon thirty (30) days written notice for cause include violation of the Plan or District Rules, or violation of other terms of this Agreement. There is no obligation or expectation that there exists an opportunity to cure any alleged breach of this Waiver Agreement other than those outlined above.

8. All notices, payments, reports, certificates, requests or other communications hereunder shall be in writing and shall be deemed given if delivered in person to the individual or to a member of the company or organization for whom the notice is intended, or delivered by certified mail, return receipt requested, to the respective addresses of the District and Rumpke set forth above.

IN WITNESS WHEREOF, the parties by their duly authorized officers, trustees or partners, have executed this Agreement in duplicate as of the date set forth above.

DISTRICT:

James M. San
Chairperson, Board of Directors,
Ottawa, Sandusky and Seneca Joint
Solid Waste Management District

2/4/15
Date

RUMPKE NORTHERN OHIO.

Andrew Rumpke
Signature
Vice President
Title

01/05/2015
Date



APPENDIX J

February 8, 2016 OHIO EPA LETTER TO SUNNY FARMS LANDFILL





John R. Kasich, Governor
 Mary Taylor, Lt. Governor
 Craig W. Butler, Director

February 8, 2016

Mr. Edward Brdicka
 Sunny Farms Landfill
 12500 West County Road 18
 Fostoria, Ohio 44830

Re: Sunny Farms Landfill LLC
 General Correspondence
 Municipal Solid Waste Landfills
 Seneca County
 MSWL018786

**Subject: Sunny Farms Landfill, Seneca County
 CDD Waste Photograph Plan / Waste Characterization**

Dear Mr. Brdicka:

On January 12, 2016, the Ohio Environmental Protection Agency (Ohio EPA), Northwest District Office (NWDO), Division of Materials and Waste Management (DMWM) received the weekly photo documentation DVD submitted pursuant to the July 24, 2008, Consent Order Case No. 07-CV-0694 (Consent Order) for the Sunny Farms Landfill (Facility). The submittal is for the waste characterization on January 4, 2016, through January 8, 2016.

In accordance with Section 16 of the Consent Order, Ohio EPA disputes the waste designation made by the owner/operator of the Facility. The columns below list the specific railcar/truck ID#, date and net tons that were originally designated as construction and demolition debris (CDD). It is Ohio EPA's determination that the loads explicitly listed below are solid waste and not construction and demolition debris. Ohio EPA is requesting the reported tonnage of CDD on January 5, 6, and 7, 2016, for the forty-five (45) loads listed below be reclassified as solid waste. A total of 1,174.42 tons will need to be reclassified.

Railcar/Truck ID	Date	Net Tons	Railcar/Truck ID	Date	Net Tons
AMEX1200Q	1/5/2016	28.14	ITFX92027O	1/5/2016	27.39
AMEX1200R	1/5/2016	28.41	ITFX92027P	1/5/2016	28.50
CDEX201445P	1/5/2016	23.20	ITFX92051R	1/5/2016	27.02
CDEX201445Q	1/5/2016	24.06	ITFX92094Q	1/5/2016	27.23
CDEX201445R	1/5/2016	24.38	ITFX92144N	1/5/2016	25.85
CDEX202012M	1/5/2016	25.94	JAMX1014P	1/5/2016	25.51
CDEX202012O	1/5/2016	24.24	LEWX1040O	1/5/2016	27.46
CDEX202012S	1/5/2016	22.25	LEWX1064M	1/5/2016	27.47
ITFX1008N	1/5/2016	27.98	LEWX1064N	1/5/2016	26.10
ITFX1008S	1/5/2016	26.94	LEWX1068R	1/5/2016	27.84

Mr. Edward Brdicka
February 8, 2016
Page 2

Railcar/Truck ID	Date	Net Tons	Railcar/Truck ID	Date	Net Tons
ITFX92026Q	1/5/2016	28.79	LEWX1073O	1/5/2016	28.61
ITFX92026R	1/5/2016	27.63	LEWX1076M	1/5/2016	26.30
ITFX92026S	1/5/2016	27.69	LEWX1076Q	1/5/2016	28.54
ITFX92027N	1/5/2016	26.59	REGX6853P	1/5/2016	27.43
SHNX100668O	1/5/2016	28.95	MRRX4104N	1/6/2016	28.24
AIMX14164P	1/6/2016	21.19	MRRX4118P	1/6/2016	27.86
CDEX201430Q	1/6/2016	24.13	MRRX4118S	1/6/2016	27.14
LEWX1001N	1/6/2016	21.59	MRRX4125O	1/6/2016	25.16
LEWX1001Q	1/6/2016	23.30	MRRX4159S	1/6/2016	24.51
LEWX1027Q	1/6/2016	27.12	AIMX14009R	1/7/2016	24.91
LEWX1033S	1/6/2016	23.93	CDEX201404M	1/7/2016	24.68
LEWX1096R	1/6/2016	26.54	CDEX201404P	1/7/2016	24.42
CDEX201404S	1/7/2016	23.26			

A picture of each of the 45 loads to be reclassified is available on DVD and will be sent to your attention upon request. Included in this letter are three examples of debris designated as CDD that was requested to be reclassified.



Picture 1: AIMX14009-R-2, 1/7/2016

Mr. Edward Brdicka
February 8, 2016
Page 3



Picture 2: LEWX1096-R-1, 1/6/2016



Picture 3: CDEX202012-S-1, 1/5/2016

Mr. Edward Brdicka
February 8, 2016
Page 4

Also in accordance with Section 16 of the Consent Order, the owner/operator has seven days (7) to either:

- a) redact the incorrect designation on the original daily log, replace it with the correct designation, and remit the appropriate fees or,
- b) refer the disagreement for resolution pursuant to the Dispute Resolution outlined in Section XI of the Consent Order.

If you have any questions please feel free to contact me at (419) 373-3126.

Sincerely,

Michael A. Reiser

Michael A. Reiser, R.S.
Environmental Supervisor
Division of Materials and Waste Management

/zss

pc: Joe Frola, Sunny Farms Landfill, LLC
Jim Mohrman, Seneca County Health Department
NWDO File: DMWM/SW, Seneca County, Sunny Farms Landfill,
Correspondence

ec: John Pasquarette, DMWM - NWDO
Tyler Madeker, DMWM - NWDO
Andy Drumm, DMWM - NWDO