Hancock County Solid Waste Management District

PLAN UPDATE

Solid Waste Management Plan

Draft Amended Plan Submitted for Public Comment
Planning Period: 2013-2027

June 2013

Hancock County Solid Waste Management District • 300 S. Main Street, Findlay OH 45840 • (419) 424-7210

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
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Solid Waste Management Plan Update

Reference Year: 2010
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TABLE OF CONTENTS

APPENDICES

I. INTRODUCTION

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

1. Under current plan:

Date of Ohio EPA approval:	October 9, 2007
Counties within District:	Hancock
Years in planning period:	15

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

Counties within District:	Hancock
Reference year for this Plan:	2010
Years in planning period:	15
Year 1 of planning period:	2013

B. Reasons for Plan Submittal

This Plan submittal is the mandatory five-year plan update.

C. Process to Determine Material Change in Circumstances

1. Criteria for Determining Material Change

In accordance with ORC 3734.56(D), the Plan must be revised if the Board of County Commissioners has determined that "circumstances materially changed from those addressed in the approved initial or amended plan of the district." The following criteria will be monitored to determine if a material change in circumstances has occurred in the District, which may require a revision of the approved Plan:

- Change in the solid waste management facilities designated by the Plan. Solid waste management facilities are identified in the Plan to ensure waste disposal options for the District. The addition of a facility to the designated list need not be a material change. However, if a designated facility should close, be replaced, or otherwise be unable to handle District waste, the District would determine a material change, providing no suitable alternate facilities are available.
- Change in waste generation. A change in waste generation within the District that impairs the ability of designated and/or identified facilities to adequately process District generated waste and/or a change in waste generation within the District that impairs the ability of the District to financially fund programs would constitute a material change in circumstances.
- Change in the capacity available for disposal, transfer, composting, etc. Capacity shortfall to one or more waste management methods identified in the Plan would be deemed a material change if other waste management methods identified in the Plan, or waste management methods not identified in the Plan but deemed acceptable by the Policy Committee, were unavailable. However, if other waste management methods are capable of handling the capacity shortfall, the change in capacity would not be deemed a material change in circumstances.

- Change in strategies for waste reduction and/or recycling. Strategies for waste reduction and/or recycling are dependent upon many variable factors. The District is committed to promoting recycling; however, changes in recycling markets and/or the recycling needs of the District would constitute a material change if they result in the discontinuation of strategies that are necessary in order to demonstrate compliance with required State Plan goals.
- Change in the availability of revenues for plan implementation. Any significant shortfall in revenues that (1) could not be addressed via implementation of revisions to the District's fees and (2) would result in a program discontinuation would be deemed a material change in circumstances if the lack of funding prohibits demonstration of required State Plan goals.
- Change in the procedures to be followed for plan implementation. Significant changes in the procedures for implementing the Plan would only be deemed a material change in circumstances if said changes would prevent District staff from implementing programs necessary to meet required State Plan goals.
- Change in the timetable for implementation of programs and/or activities. Significant changes or delays in program implementation would be deemed a material change in circumstances only if said changes resulted in non-compliance with State Plan goals.
- Change in the District structure. Any change in the existing District structure, such as the addition or subtraction of counties included in the District, would constitute a material change in circumstances.
- Change in the basic legal authority of the District. A change in the basic legal authority of the District due to future legislation or court decisions would be deemed a material change of circumstances.

2. Monitoring Procedure

The District's Board of County Commissioners (the Board) and the solid waste coordinator will monitor the changes indicated above on an annual basis by reviewing implementation of the approved plan and looking for indicators such as:

- An increase or decrease of 50% or more from the 2010 baseline, for two or more consecutive years, of waste quantities reported to Ohio EPA for solid waste disposal facilities used by the District.
- A significant decrease in remaining capacity in the District's permitted landfill facility, along with an absence of suitable alternatives, such that a capacity shortfall arises for the 15-year planning period.
- A decrease in District revenues or increase in the costs of programs and strategies planned by the District throughout the planning years, such that implementation costs exceed the available District revenues and the District is unable to fulfill required State Plan goals.
- A one year decrease of 50% or more in total recycling tonnage collected by local recycling activities.
- The loss of one or more entire recycling markets such that the District would be unable to recycle one or more of the required designated materials necessary to meet Goal #1 of the State Plan.

3. Timetable for Analyzing the Determination

Within 30 days after the Board makes a determination that a material change has occurred, the Board will call a meeting of the Policy Committee to analyze the change. The Policy Committee, after analyzing all factors affecting the change, will make an advisory recommendation to the Board as to whether a material change has occurred in the circumstances addressed in the approved Plan. If the Board makes such a determination, it is the Policy Committee's mandatory duty to make appropriate amendments to the Plan.

4. Notification Procedure

After the Policy Committee has decided that a material change has occurred, the Board will notify Ohio EPA and the municipal corporations and townships within the District of its intention to revise the Plan because of a material change in circumstances from those addressed in the approved Plan. The notification will explain in detail the change or changes that led to the decision.

D. District Formation and Certification Statement

The Hancock County Solid Waste Management District is an existing solid waste management district which was formed on March 7, 1989. The District has not undergone any reconfiguration; therefore, resolutions pertaining to the formation of the District will not be included in the Appendices (Appendix A). The following documents have been included in the appendices as listed below:

Appendix	Documents
A	Resolutions for District Formation (Omitted)
B	Copies of Public Notices for Public Hearing and Public Comment
C	Copies of Resolutions and Certification Statements Documenting Ratification
D	Identification of Consultants Retained for Plan Preparation
E	District Map
F.1	Industrial Recycling and Generation Survey Results
F.2	Residential and Commercial Recycling and Generation Survey Results
F.3	Recycler/Broker Recycling Survey Results
F.4	Double Counting Adjustments to Survey Results
G	Recycling Drop-Off Locations & Mobile Trailer Locations/Schedule
H	Program Analysis
I	Resolutions of Designation

E. Policy Committee Members

Name	Title	Representing
William Recker	Chairman	Public Representative
Mark Gazarec		Board of County Commissioners
Lydia Mihalik		Mayor, City of Findlay
Edward Huffman		Township Representative
Lindsay Summit		Health District Designee
Greg McCartney		Solid Waste Generator Representative
Richard Kozolowski		Representative for General Interests of Citizens

F. Board of County Commissioners

The members of the Board of Hancock County Commissioners are as follows:

Phillip A. Riegle, Chairman, Board of Hancock County Commissioners
Brian J. Robertson, Commissioner
Mark D. Gazarek, Commissioner

G. District Address and Phone Number

Hancock County Solid Waste Management District
300 South Main Street
Findlay, Ohio 45840
Phone: (419) 424-7210
Fax: (419) 424-7828
Web: http://www.hancockenvironment.com
Contact: Steven Wilson, Acting SWMD Director

H. Technical Advisory Committee and Other Subcommittees

The District has not established a technical advisory committee or any other subcommittees.

II. EXECUTIVE SUMMARY

The overall goal of this Solid Waste Management Plan Update is to develop an integrated solid waste management program that will be implemented in an environmentally sound, technically feasible, cost effective, and publicly acceptable manner. The Plan and its implementation shall be consistent with the requirements of House Bill 592, the State Solid Waste Management Plan and the administrative rules, regulations, and procedures of the State of Ohio. In addition, the Plan has been developed to be consistent with the seven specific goals that the District wishes to achieve through the planning process, as described below:

1. To promote and protect the health, safety and welfare of the citizens of the District and to provide, through the provision of strict environmental regulations, the best quality of life and environment.
2. To ensure that all District citizens have an environmentally and economically viable method of solid waste disposal readily available.
3. To develop and implement waste reduction, reuse and recovery systems as alternatives to landfill disposal as projected for each year of the planning period of this plan.
4. To develop an integrated approach to solid waste management, meeting the needs of all municipalities and townships in the District.
5. To define management responsibilities and assign appropriate roles as needed to assure that necessary action is taken to implement the solid waste plan.
6. To implement the programs identified in the plan in a financially responsible manner, which means that to the extent that it is feasible, the programs should be self-funding and not subject the District to inappropriate financial risks.
7. To operate and maintain the Hancock County Sanitary Landfill in a safe and sanitary manner for the purpose handling all the solid waste disposal needs of the residents of the District.

A. Section III – Inventories

The purpose of this section is to provide an inventory of the landfill facilities, transfer facilities, incinerators, recycling activities and composting facilities that were utilized to manage waste that was generated within the District during the reference year, 2010. This section also provides an account of any known open dumps and scrap tire dumps as well as a list of all of the solid waste haulers operating in the District in 2010.

In 2010, the District disposed of 90,807 tons of waste in one in-district, seven out-of-district and one out-of-state landfill. Of this waste, 67,743 tons consisted of residential/commercial waste, 11,852 tons were industrial waste, and 11,212 tons were exempt waste. A very small quantity of District waste (0.03 tons) was reported as having been accepted at a solid waste incinerator in 2010. Approximately nine tons of waste was routed through transfer facilities.

The primary recycling opportunities available to District residents were Litter Landing, the District's processing and recycling center, and the network of permanent and mobile recycling drop-offs available throughout the District. In addition, there was one subscription curbside recycling service available in the City of Findlay. Residential, commercial, and industrial generators also utilized several brokers and private recyclers to manage to recyclable materials. Finally, approximately 3,739 tons of yard waste was managed at the five registered Class IV composting facilities located in the District.

B. Section IV – Reference Year Population, Waste Generation and Waste Reduction

This section establishes a reference year for the Plan update and provides data regarding the District's population, the amount of waste generated by both the residential/commercial and industrial sectors, the amount of recyclables collected from each sector, and the composition of the waste streams from each sector. This section also discusses the recycling, reduction, and reuse programs that were in place during the reference year.

This section establishes 2010 as the reference year for the Plan update. According to the Ohio Department of Development's Office of Strategic Research, the population of Hancock County in 2010 was 74,782 people. Excluding the portions of the City of Fostoria and the Village of Bluffton that reside in Hancock County, the total District population was calculated to be 71,677 people in 2010.

Residential/commercial waste generation was calculated using two methods. Using the national generation rate for 2010 of 4.43 pounds per person per day, total residential/commercial waste generation was estimated at 57,949 tons. Adding together the amount of waste disposed in landfills and the amount of waste recycled resulted in a total residential/commercial waste generation of 82,184 tons, or 6.28 pounds per person per day. Because the quantity of waste generated using the national average is less than the amount of waste that was reported as disposed in landfill facilities, this Plan update uses 82,184 tons as the basis for future projections for residential/commercial waste generation.

Industrial waste generation was also calculated using several methods. Although industrial generators were surveyed to determine total industrial waste generation, not all industrial generators responded to the survey. Therefore, this Plan update uses industrial generation based on the amount of waste disposed in landfills plus the amount of material recycled as the basis for future projections of industrial waste generation. Thus, 88,881 tons is the quantity that is presented for the amount of industrial waste generated in 2010.

In the reference year, the District operated a network of 12 permanent recycling drop-offs and 12 mobile recycling drop-offs. These drop-offs, a privately-operated curbside recycling program, and the Litter Landing processing facility provided recycling opportunities to all District residents and businesses. The District also offered a number of collection opportunities targeted toward specific materials, including collection events for scrap tires, household hazardous waste, electronics and Christmas trees. Additionally, the District sponsored several programs targeted at litter prevention and cleanup, including the Adopt-a-Road program and Spring Clean Up Day. The District provided technical assistance to area businesses, governmental offices, and community service organizations to help them establish recycling programs and find markets for collected materials. The District conducted education and awareness activities for a wide variety of audiences, including school children and adult groups. Finally, the District addressed the management of yard waste by promoting the Don't Bag It / Backyard Composting program and composting facilities located in the District.

As determined through surveys and District information, approximately 14,432 tons of material was recycled from the residential/commercial sector and approximately 77,029 tons of material was recycled from the industrial sector.

C. Section V – Planning Period Projections and Strategies

This section of the Plan update establishes a 15-year planning period beginning January 1, 2013 and ending December 31, 2027. This section also provides information and data concerning projections for the District's population, generation rates for residential/commercial, industrial and exempt wastes, and amounts of material expected to be recycled from both the residential/commercial and industrial sectors. This section further describes any new programs, activities, or strategies that will be implemented and/or any changes to existing programs, activities or strategies that will be made during the planning period.

This District's population is expected to increase by approximately 4.7 percent during the planning period, from 72,288 people in 2013 to 75,660 people in 2027. With the expected increase in population, it is anticipated that the total amount of solid waste generated by the residential/commercial sector will also increase. Overall, residential/commercial waste generation is projected to increase from 82,885 tons in 2013 to 86,946 tons in 2027, an increase of 4.7 percent. The per capita residential/commercial generation rate is projected to remain constant throughout the planning period at 6.28 pounds per person per day.

According to the Ohio Department of Job and Family Services' *2018 Ohio Job Outlook for West Central Ohio Economic Development Region 3*, manufacturing is expected to decline by 12.7 percent between 2008 and 2018. Taking this into account, the total amount of industrial waste generated is expected to decrease from 85,537 tons in 2013 to 80,242 tons in 2027, a decrease of approximately 6.2 percent over the planning period.

Total waste generation, including exempt waste, is expected to decrease from 179,640 tons in 2013 to 178, 599 tons in 2027, or a decrease of approximately 0.8 percent overall.

The amount of material to be recycled/reduced from the residential/commercial sector is projected to slightly increase from 8,816 tons in 2013 to 9,345 tons in 2027. For the industrial sector, the amount of material recycled/reduced is projected to decrease from 74,131 tons in 2013 to 69,542 tons in 2027.

The District is implementing several new programs in the planning period and all existing programs will continue to be provided. In addition, a few existing programs are expected to undergo some changes during the planning period. For the mobile and permanent recycling drop-off programs, the District expects to significantly expand the permanent drop-off program in 2012-2016, adding a total of at 14 new full-service sites, including a satellite donation center at the Hancock County Landfill. The District also expects to offer an Agricultural Tire Collection Day and intends to offer collection of HHW, paint and electronics at Litter Landing, in addition to the one-time collection events. Finally, the District intends to add a once annual Paper Shredding Day to provide a venue to residents and businesses for secure destruction of paper documents.

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

This section of the Plan update provides information regarding the methods the District will use to manage the solid waste that is projected to be generated throughout planning period. This Plan update demonstrates that the District will have access to adequate landfill disposal capacity through the presentation of a regional capacity analysis. This disposal capacity demonstration relies on one in-district landfill and seven out-of-district landfills. It is projected that approximately 96 percent of the waste that will be disposed in landfill facilities will be taken to the Hancock County Sanitary Landfill. A small amount of waste, approximately 22 tons, is projected to be routed through transfer facilities. This Plan update also projects that between 4,281 tons and 4,481 tons of yard waste will be managed annually through existing composting facilities.

E. Section VII – Measurement of Progress Toward Waste Reduction Goals

The 2001 *State Solid Waste Management Plan* (State Plan) mandates that solid waste management districts, in their solid waste management plans, demonstrate compliance with one of two overall recycling goals. The first of these goals, Goal #1, requires that solid waste management districts provide recycling opportunities to the residential and commercial sectors. The second goal, Goal #2, requires solid waste management districts to demonstrate achievement of established recycling/reduction percentages for both the residential/commercial and industrial sectors. The District has chosen to demonstrate compliance with Goal #1 of the State Plan. Solid waste management districts are also required to provide programs, activities, and strategies to achieve five other goals. The programs, activities, and strategies that the District is using to demonstrate compliance with these five goals are described in Section IV and V.

This section of the Plan update first provides the demonstration of the District's compliance with Goal #1. To successfully achieve Goal #1, a solid waste management district must demonstrate that there are recycling opportunities available to at least 90 percent of the residential population and that commercial and institutional generators also have access to recycling opportunities. The demonstration in this Plan update shows that the District provided recycling opportunities to over 100 percent of the residential population in 2010 and will continue to provide opportunities to over 100 percent of the residential population during the planning period. In addition, commercial and institutional generators are provided the opportunity to recycle at Litter Landing.

Second, this section of the Plan update provides a demonstration of the District's compliance with Goal #2. To successfully achieve Goal #2, a solid waste management district must demonstrate that at least 25% of the residential/commercial waste generated, and at least 66% of the industrial waste generated, is recycled/reused/minimized. The demonstration in this Plan update shows that the District did not achieve this goal, attaining a waste reduction rate of 17.6% in the residential/commercial sector and 86.7% in the industrial sector in 2010. Overall, the District's total waste reduction rate was 53.5%, or 6.99 pounds per person per day. Solid waste management districts that opt to demonstrate compliance with Goal #1 and are unable to demonstrate compliance with Goal #2 are required to establish target waste reduction and recycling rates for the residential/commercial and/or industrial sectors. The District has established 18 percent as the target waste reduction and recycling rate for the residential/commercial sector. No target has been set for the industrial sector as the reference year waste reduction rate was well above the target of 66 percent set by Goal #2.

F. Section VIII – Cost and Financing of Plan Implementation

This section of the Plan update provides information regarding the funding sources that will be used to support the District as well as the expenses the District will incur as the result of providing the programs, activities, and strategies described in this Plan.

In 2010, the District was funded by a combination of revenue sources including a disposal fee, a generation fee, an exempt waste surcharge, and the sale of recyclable materials. All of these funding sources are expected to be utilized throughout the planning period.

Since 2008, the District's disposal fee has been set at a ratio of $1.50:$3.00:$1.50. The District expects to maintain that disposal fee for much of the planning period; the District has projected the need to increase the fee to $2.00:$4.00:$2.00 in 2023. The amount of revenue the District is projected to receive from the disposal fee in 2013 is $224,882. Following the projected change to the disposal fee structure in 2023, the amount of revenue the District is expected to receive from the disposal fee in 2027 is $306,087.

In 2008, the District instituted a $1.50 per ton generation fee. As with the disposal fee, the District has projected the need to increase the generation fee to $2.00 per ton in 2023. In 2013, the District is projected to realize $130,121 in revenues from the generation fee. By 2027, the amount of revenue the District is projected to receive from the generation fee is $180,926.

In addition to the two fees discussed above, the District intends to collect a surcharge on all exempt waste that is disposed at the Hancock County Sanitary Landfill. The amount of this surcharge will be equal to the amount of money the District would have collected on the exempt waste via the disposal and generation fees if the waste had been solid waste. In 2013, the surcharge is expected to earn the District $48,870. In 2027, the District is projected to collect $67,452 in revenues from the surcharge.

The District also receives revenue from the sale of recyclables. In 2013, the District is projected to receive $358,166 from the sale of recyclables. By 2027, this amount is projected to increase to $377,082.

In total, the District is projected to receive $762,039 in revenues in 2013. By 2027, total revenues are projected to be $932,037. The District's total expenditures for the 15-year planning period total approximately $13 million. Annual expenditures will fluctuate year to year, but are expected to

average approximately $870,500. Approximately 64 percent of the total expenditures are earmarked for the operation, maintenance, and renovation of Litter Landing and operation of the Drop-Off Recycling Program.

The District's cumulative balance in the reference year was $648,767. By the end of the planning period, the District projects that the cumulative balance will be approximately $290,544.

G. Section IX – District Rules

Ohio Revised Code Section 3734.53 (C) provides for the creation of four types of local rules under the solid waste management plan. These rules may:

1. Prohibit, or limit, out of district solid waste from being received at facilities covered by the Plan. (The Director of the Ohio EPA can modify the legislation to order the District to accept waste from other solid waste districts within the State of Ohio.)
2. Govern the maintenance, protection and use of any current or proposed solid waste collection, disposal, transfer, and recycling or resource recovery facility within the District. Requirements for the submission and approval of construction, enlargement or modification plans may be set under this section.
3. Develop and implement inspection programs for solid waste generation outside the State that is disposed at solid waste facilities included in the Plan.
4. Exempt the owner or operator of an existing or proposed solid waste facility provided for in the plan from compliance with an amendment to a township or rural zoning resolution that rezoned or redistricted the parcel within two years preceding the filing an application with the Ohio EPA of a permit to open a new or modify an existing solid waste facility.

This section of the Plan update describes the existing and proposed rules of the District. The specific rules authorized by the District in the Plan are provided in Appendix I.

H. Plan Profile

Refer to Tables ES-1 through ES-4.

Table ES-1: General Information

District Name: Hancock County Solid Waste Management District		
District ID# (for OEPA use only)	**Reference Year:** 2010	**Planning Period:** 2013-2027
Plan Status: Draft		**Reason for Plan Submittal:** Plan Update

Table ES-2: District Coordinator

Name: Steven Wilson (Acting Director)		
Address: 300 South Main Street		
City: Findlay	**State:** Ohio	**Zip:** 45840
Phone: (419) 424-7210	**Fax:** (419) 424-7828	**Email:** scwilson@co.hancock.oh.us

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE ES-3PLAN DATA SUMMARY

PLAN DATA				
		Reference Year	2013	2027
Population		71,677	72,288	75,660
Generation (TPY)	Industrial	88,881	85,537	80,242
	Residential/Commercial	82,184	82,885	86,751
	Exempt	11,212	11,218	11,218
	Total Generation	182,277	179,640	178,211
Waste Reduction (TPY)	Industrial Source Reduction	0	0	0
	Industrial Recycling	77,029	74,131	69,542
	Res/Com Source Reduction	0	0	0
	Res/Com Recycling	10,693	8,816	9,345
	Yard Waste Composting	3,739	4,281	4,481
	Incineration	0	0	0
	Ash Disposed	0	0	0
	Total Waste Reduction	91,461	87,228	83,368
Disposal (TPY)	In-District Landfill	87,435	88,962	91,480
	Out-of-District Landfill	3,373	3,427	3,341
	Total Landfill	90,807	92,389	94,821
Waste Reduction Rate (WRR)		**53.5%**	**51.8%**	**49.9%**

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE ES-4: EXISTING DISPOSAL FACILITIES

Existing Disposal Facilities Used in the Reference Year (2010)				
NAME	COUNTY	DISTRICT TONS	TOTAL TONS	YEARS LEFT*
Hancock County Landfill	Hancock	0	136,719	40
Henry County Landfill	Henry	1	19,251	2
Celina Sanitary Landfill	Mercer	2,918	58,037	10
Wyandot County Env. Sanitary Landfill	Wyandot	269	168,900	NA
Evergreen R&D Landfill	Wood	1	277,714	34
Port Clinton Landfill	Ottawa	168	88,302	83
Sunny Farms Landfill	Seneca	11	1,025,423	3
Pine Grove Regional Facility	Fairfield	0	243,567	51

* Data provided reflects the remaining capacity in the reference year (2010).

III. INVENTORIES

The purpose of this section is to provide an account of the landfill facilities, transfer facilities, incinerators, recycling activities, and composting facilities that were used to manage waste that was generated from within the District during the reference year. This section also provides an account of any known open dump and scrap tire dumps as well as a listing of all solid waste haulers that operated within the District.

A. Reference Year

In accordance with ORC 3734.56(A), the District began preparation of its amended Plan at least 15 months prior to the mandatory submittal date for the draft amended Plan and established a reference year to be used for all subsequent projections in the plan. Ohio EPA has suggested that the reference year be the calendar year previous to the year in which the preparation of the amended Plan begins. These requirements determine the following important dates:

5. Last date for submittal of the draft amended Plan to the Director, Ohio EPA: October 9, 2012
6. Date by which the District should begin preparation of the amended Plan: July 9, 2011
7. Suggested reference year: 2010

B. Existing Solid Waste Landfills

Table III-1 presents information concerning the landfill facilities that were used by the District for disposal of solid waste generated within the District during the reference year.

In 2010, the District disposed of solid waste in a total of 9 landfill facilities. Of these, one was located within the District, 7 were located outside of the District but within the State of Ohio and one was located in the State of Indiana. Of the waste that was disposed in landfill facilities, approximately 99.5 percent was disposed at two landfill facilities, the Hancock County Sanitary Landfill and the Wyandot County Landfill. Approximately 96 percent of the waste that was disposed in landfills was disposed within the District at the Hancock County Sanitary Landfill. Approximately three percent of the waste disposed in landfills and 86 percent of all waste that was sent out of the District for disposal was taken to the Wyandot County Landfill.

A map displaying the location of the District's landfill can be found in Appendix E. Landfill information was collected from the Draft Hancock County Annual District Report Form for 2010, which is compiled from information submitted by the facility operators or owners to the Ohio EPA. Information regarding design capacity and remaining disposal capacity was obtained from the draft information prepared for the *2010 Annual Facility Data Report*.

C. Existing Incinerators and Resource Recovery Facilities

There are no resource recovery facilities or licensed or unlicensed solid waste incinerators located within the District. However, approximately 0.03 tons of waste generated in the District was delivered to the Stericycle, Inc. facility in Trumbull County in 2010. This information is presented in Table III-2 and was obtained from the Hancock County Annual District Report Form for 2010.

D. Existing Transfer Facilities

There were no transfer facilities located within the District in the reference year. However, private waste haulers operating in the District did deliver a small amount of waste generated within the District to one transfer facility located outside Hancock County in 2010. Approximately 8.7 tons of waste generated in the District was delivered to the Lima Waste Management Transfer Facility in Allen County and 0.2 tons of waste was delivered to the North Transfer Station in Montgomery

County. This information is presented in Table III-3. The information provided in Table III-3 was obtained from the Hancock County Annual District Report Form for 2010. The District did not utilize transfer stations located outside of Ohio. Thus, Table III-7 was not developed for this Plan update.

E. Existing Recycling Activities

There was one privately-owned residential curbside program in operation in the District in the reference year. This program was established in the District in 2002. Table III-4 presents information on this curbside program.

Table III-5 lists the recycling programs offered by the District in 2010. These programs included Litter Landing and the recycling drop-offs, HHW Collection Day, Litter Landing HHW & Paint Collection, Tire Recycling Days, Christmas Tree Recycling, Electronics Recycling Day, and the Hancock County Compost Facility.

In addition to District programs, Table III-5 also includes recycling performed by recycler/brokers, commercial businesses, and industry in the reference year. A survey of commercial business, industry, and recyclers/brokers was conducted to obtain this information, including the types and amounts of materials recycled. Sample copies of the survey forms are included in Appendix F. Recycling reported by the surveyed commercial and industrial entities is reported as "Private Sector Recycling" in Table III-5. Complete lists of the industrial, commercial and recycler/broker respondents are provided in Appendix F.1, F.2, and F.3, respectively.

All recycling quantities provided in Table III-5 are based on either District data (for District programs) or survey data, which was verified via telephone inquiry where appropriate. Recycling data provided in Table III-5 has not been adjusted for double counting.

F. Existing Composting/Yard Waste Management Facilities

There were five registered, Class IV composting facilities located within the District in the reference year, as shown in Table III-6.

G. Existing Open Dumps and Waste Tire Dumps

According to information provided by the Hancock County Health Department, there are no known open dumps or waste tire dumps located in the District. Therefore, Table III-8 was not developed for this Plan update.

H. Ash, Foundry Sand and Slag Disposal Sites

The District is not aware of any licensed or unlicensed facilities for the disposal of fly ash, foundry sand, or slag located within its boundaries. Therefore, Table III-9 was not completed for this Plan update.

I. Map of Facilities and Sites

A map of the District showing the location of recycling and disposal sites described herein is provided in Appendix E. Please note that this map also shows the locations of mobile and permanent drop-off locations in the District.

J. Existing Collection Systems – Haulers

Table III-10 provides the information regarding existing haulers in the District. This information was obtained from the Hancock County Health Department.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE III-1: LANDFILLS USED BY THE DISTRICT (2010)

FACILITY NAME	TYPE OF LANDFILL	LOCATION		WASTE RECEIVED FROM THE SWMD (TPY)					REMAINING CAPACITY			
		COUNTY	STATE	RESIDENTIAL/ COMMERCIAL	INDUSTRIAL	EXEMPT	TOTAL	DATA SOURCE	YEARS	AIRSPACE (CUBIC YARDS) GROSS	AIRSPACE (CUBIC YARDS) NET	DATA SOURCE
IN-DISTRICT FACILITIES :												
Hancock County Sanitary Landfill	PA	Hancock	OH	66,679	10,066	10,688	87,433	(1)	40	7,304,801	NA	(2)
OUT-OF-DISTRICT :												
Henry County Landfill	PA	Henry	OH	0	0	4	4	(1)	2	43,007	NA	(2)
Celina Sanitary Landfill	PA	Mercer	OH	0	0	1	1	(1)	10	804,190	NA	(2)
County Environmental of Wyandot	PA	Wyandot	OH	930	1,549	440	2,918	(1)	NA	21,703,659	NA	(2)
Evergreen Recycling & Disposal	PA	Wood	OH	116	124	29	269	(1)	34	9,784,567	NA	(2)
Port Clinton Landfill, Inc.	PA	Ottawa	OH	1	0	0	1	(1)	83	9,453,527	NA	(2)
Sunny Farms Landfill LLC	PA	Seneca	OH	18	99	51	168	(1)	3	4,167,252	NA	(2)
Pine Grove Regional Facility	PA	Fairfield	OH	0	11	0	11	(1)	51	18,165,168	NA	(2)
OUT-OF-STATE												
NA (Destination not specified)	NA	NA	IN	0	2	0	2	(1)	NA	NA	NA	
TOTALS				67,743	11,852	11,212	90,807					

Notes:

(1) Draft Annual District Report Form for 2010

(2) Table 13. Landfill Capacity and Daily Waste Receipt Amounts 2010 (from *2010 Ohio Solid Waste Facility Data Tables and Figures* , provided by by Ohio EPA)

Residential/Commercial waste includes asbestos.

Exempt waste includes construction and demolition debris (C&DD).

Remaining life in years is based upon actual receipts, not AMDWR.

NA - Not Available

PA - Publicly Available

PO - Privately Owned

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE III-2
EXISTING INCINERATORS AND RESOURCE RECOVERY FACILITIES USED BY THE DISTRICT (2010)

FACILITY NAME	TYPE OF FACILITY	LOCATION		WASTE RECEIVED FROM THE SWMD (TPY)						TOTAL ASH PRODUCED (TPY)
				WASTE INCINERATED					BYPASS WASTE RECEIVED (TPY)	
		COUNTY	STATE	RESIDENTIAL/ COMMERCIAL	INDUSTRIAL	EXEMPT	TOTAL	DATA SOURCE		
IN-DISTRICT FACILITIES :										
NA										
OUT-OF-DISTRICT :										
Stericycle, Inc.	PA	Trumbull	OH	0.03	0.00	0.00	0.03	(1)	NA	NA
OUT-OF-STATE										
NA										
TOTALS				0	0	0	0.03		0	

Notes:
(1) Draft Annual District Report Form for 2010
Residential/Commercial waste includes asbestos.
Exempt waste includes construction and demolition debris (C&DD).
Remaining life in years is based upon actual receipts, not AMDWR.
NA - Not Available
PA - Publicly Available
PO - Privately Owned

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE III-3
SOLID WASTE TRANSFER FACILITIES USED BY THE DISTRICT (2010)

FACILITY NAME	TYPE OF FACILITY	LOCATION		WASTE RECEIVED FROM THE SWMD (TPY)					RECOVERED RECYCLABLES	TOTAL RECYCLABLES RECEIVED & RECOVERED (TPY)
		COUNTY	STATE	RESIDENTIAL/ COMMERCIAL	INDUSTRIAL	EXEMPT	TOTAL	DATA SOURCE		
Montgomery County North Transfer Facility	PA	Montgomery	OH	0.2	0	0	0.2	(1)	NA	NA
Waste Management of Ohio - Lima	PA	Allen	OH	8.7	0	0	8.7	(1)	NA	NA
TOTALS				9	0	0	9			

Notes:
(1) Draft Annual District Report Form for 2010
Residential/Commercial waste includes asbestos.
NA - Not Available
PA - Publicly Available

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE III-4
RESIDENTIAL CURBSIDE RECYCLING ACTIVITIES USED BY THE DISTRICT (2010)

CURBSIDE RECYCLING ACTIVITY (Name, Mailing Address, Phone)	TYPE OF CURBSIDE	# OF HOUSE-HOLDS SERVED	FREQUENCY OF COLLECTION	AVERAGE # OF HHs PARTICIPATING	SERVICE AREA		TYPES OF MATERIALS ACCEPTED	RECYCLABLES PROCESSED FROM THE SWMD (TPY)
					COUNTY	TOWNSHIPS / CITIES		
AE Curbside Recycling Service Sean Abbott 224 Prentiss Ave. Findlay, OH 45840 (419) 422-7771	S	640	Weekly	NA	Hancock	Findlay	Paper Cardboard Aluminum Cans Steel Cans Plastic Glass Batteries	NA
TOTALS		640						NA

Notes:
1. Tonnages are not tracked.
2. All materials except aluminum are taken to Litter Landing; aluminum is taken to Variety Recycling.
3. Number of households served is the actual number obtained from A&E Curbside.

S - Subscription Service
NS - Non-subscription Service
NA - Not Available

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE III-5
DROP-OFFS, BUYBACKS, HAULER COLLECTION AND OTHER RECYCLING ACTIVITIES USED BY THE DISTRICT (2010)

FACILITY / ACTIVITY NAME	TYPE OF FACILITY OR ACTIVITY	TYPES OF MATERIALS ACCEPTED	SERVICE AREA			HOURS AVAILABLE TO PUBLIC	RECYCLABLES PROCESSED FROM THE SWMD (TPY)	% OF MATERIAL FROM RES / COM / IND SECTOR	PROCESSING CAPACITY (TONS)	
			COUNTY	TOWNSHIPS / CITIES	# OF HOUSEHOLDS SERVED				DAILY (TPD)	ANNUAL (TPY)
DROP-OFF PROGRAMS										
LITTER LANDING	PA/DO	Paper Cardboard Ferrous Nonferrous Plastic Glass	Hancock	All	All	Monday 7 am - Saturday 6 pm	4,968	RES/COM - 95% IND - 5%	NA	NA
MOBILE RECYCLING TRAILERS	PA/DO	Paper Cardboard Aluminum Steel Plastic Glass	Hancock	All	All	Available on periodic basis in 12 different locations; refer to list of locations in Appendix G	NA; all materials taken to Litter Landing	RES/COM - 100%	NA	NA
RECYCLING DROP-OFFS (PERMANENT UNITS)	PA/DO	Paper Cardboard Aluminum Steel Plastic Glass	Hancock	All	All	Varies by location; refer to list of locations in Appendix G	NA; all materials taken to Litter Landing	RES/COM - 100%	NA	NA

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE III-5
DROP-OFFS, BUYBACKS, HAULER COLLECTION AND OTHER RECYCLING ACTIVITIES USED BY THE DISTRICT (2010)

FACILITY / ACTIVITY NAME	TYPE OF FACILITY OR ACTIVITY	TYPES OF MATERIALS ACCEPTED	SERVICE AREA			HOURS AVAILABLE TO PUBLIC	RECYCLABLES PROCESSED FROM THE SWMD (TPY)	% OF MATERIAL FROM RES / COM / IND SECTOR	PROCESSING CAPACITY (TONS)	
			COUNTY	TOWNSHIPS / CITIES	# OF HOUSEHOLDS SERVED				DAILY (TPD)	ANNUAL (TPY)
SPECIAL COLLECTION PROGRAMS										
HHW COLLECTION DAY	PA/DO	HHW	Hancock	All	All	1 day/year	18	RES/COM - 100%	NA	NA
LITTER LANDING HHW & PAINT COLLECTION	PA/DO	HHW	Hancock	All	All	Mondays May-Nov	27	RES/COM - 100%	NA	NA
LANDFILL APPLIANCE COLLECTION	PA/DO	Appliances	Hancock	All	All	Landfill: Year-round	12	RES/COM - 100%	NA	NA
TIRE COLLECTION DAYS & LANDFILL COLLECTION	PA/DO	Car and Truck Tires	Hancock	All	All	Events: 2 days/yr Landfill: Year-round	43	RES/COM - 100%	NA	NA
CHRISTMAS TREE RECYCLING	PA/DO	Christmas Trees	Hancock	All	All	3 weeks/year	3	RES/COM - 100%	NA	NA
ELECTRONICS RECYCLING	PA/DO	Electronics/Computers	Hancock	All	All	Events: 1 day/yr	30	RES/COM - 100%	NA	NA
COMPOSTING FACILITIES										
HANCOCK CO. LANDFILL	PA/DO	Yard Waste	Hancock	All	All	Mon-Fri 7:00-4:30 Sat 7:00-11:30	164	RES/COM - 100%	NA	NA
BILL MOYER TOPSOIL	COM	Yard Waste	Hancock	NA	NA	NA	346	RES/COM - 100%	NA	NA
CITY OF FINDLAY BROAD AVE. COMPOST	PA/DO	Yard Waste	Hancock	NA	NA	NA	3,026	RES/COM - 100%	NA	NA
LUKE THEIS	COM	Yard Waste	Hancock	NA	NA	NA	10	RES/COM - 100%	NA	NA
FINDLAY WAREHOUSING CO. INC.	COM	Yard Waste	Hancock	NA	NA	NA	193	RES/COM - 100%	NA	NA

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE III-5
DROP-OFFS, BUYBACKS, HAULER COLLECTION AND OTHER RECYCLING ACTIVITIES USED BY THE DISTRICT (2010)

FACILITY / ACTIVITY NAME	TYPE OF FACILITY OR ACTIVITY	TYPES OF MATERIALS ACCEPTED	SERVICE AREA			HOURS AVAILABLE TO PUBLIC	RECYCLABLES PROCESSED FROM THE SWMD (TPY)	% OF MATERIAL FROM RES / COM / IND SECTOR	PROCESSING CAPACITY (TONS)	
			COUNTY	TOWNSHIPS / CITIES	# OF HOUSEHOLDS SERVED				DAILY (TPD)	ANNUAL (TPY)
RECYCLERS/BROKERS										
FLAG CITY RECYCLING	BB	Ferrous Nonferrous Batteries White Goods	Hancock	All	All	NA	4,757	NA	NA	NA
ALL RECYCLING MANAGEMENT	BB	Ferrous Nonferrous	Hancock	All	All	NA	2,497	RES/COM - 100%	NA	NA
LOWE'S COMPANIES, INC.	BB	Cardboard Wood Plastic	Hancock	All	All	NA	80	RES/COM - 100%	NA	NA
VARIOUS SCRAP TIRE RECYCLERS, PER OEPA	BB	Tires	Hancock	All	All	NA	22,001	IND - 80% RES/COM - 20%	NA	NA
WALMART RECYCLING IN OHIO	BB	Paper Cardboard Ferrous Plastic	Hancock	All	All	NA	1,121	RES/COM - 100%	NA	NA
WERLOR RECYCLING	BB	Wood	Hancock	All	All	NA	43	IND - 100%	NA	NA

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE III-5
DROP-OFFS, BUYBACKS, HAULER COLLECTION AND OTHER RECYCLING ACTIVITIES USED BY THE DISTRICT (2010)

FACILITY / ACTIVITY NAME	TYPE OF FACILITY OR ACTIVITY	TYPES OF MATERIALS ACCEPTED	SERVICE AREA			HOURS AVAILABLE TO PUBLIC	RECYCLABLES PROCESSED FROM THE SWMD (TPY)	% OF MATERIAL FROM RES / COM / IND SECTOR	PROCESSING CAPACITY (TONS)	
			COUNTY	TOWNSHIPS / CITIES	# OF HOUSEHOLDS SERVED				DAILY (TPD)	ANNUAL (TPY)
COMMERCIAL SECTOR										
PRIVATE SECTOR RECYCLING (see Appendix F.2B for a list of companies)	COM	Paper Cardboard Wood Ferrous Nonferrous Plastic Oil Batteries White Goods Tires Yard Waste	Hancock	All	All	NA	13,385.30	COM - 100%	NA	NA
INDUSTRIAL SECTOR										
PRIVATE SECTOR RECYCLING (see Appendix F.1 for a list of companies)	IND	Paper Cardboard Wood Ferrous Nonferrous Plastic Oil Non-Haz Chemicals Batteries White Goods Tires Yard Waste	Hancock	All	All	NA	77,168.36	IND - 100%	NA	NA

Notes:
Double counting has not been adjusted.
All data obtained from 2010 surveys.
PA - Publicly Available
PUO - Private Use Only
BB - Buyback; BR - Broker; DO - Drop Off; SY - Scrap Yard; RES - Residential; COM - Commercial; IND - Industrial

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE III-6
COMPOSTING/YARD WASTE MANAGEMENT FACILITIES USED BY THE DISTRICT (2010)

FACILITY NAME OR ACTIVITY	FACILITY TYPE	STATUS	LOCATION					WASTE RECEIVED FROM THE SWMD (TPY)		PROCESSING CAPACITY (TONS)		NON-COM-POSTABLES LANDFILLED (TPY)	COMPOST PRODUCED (TPY)
			COUNTY	ADDRESS	CITY	STATE	ZIP CODE	TYPE	AMOUNT	DAILY	ANNUAL		
Hancock County Sanitary Landfill	C4R	Active	Hancock	10400 Township Rd. 107	Findlay	OH	45840	Yardwaste	164	NA	NA	NA	NA
Bill Moyer Topsoil	C4R	Active	Hancock	16483 State Route 235	Mt. Cory	OH	45868	Yardwaste	346	NA	NA	NA	NA
City of Findlay Broad Ave Compost	C4R	Active	Hancock	501 Broad Ave	Findlay	OH	45840	Yardwaste	3,026	NA	NA	NA	NA
Luke Theis	C4R	Active	Hancock	Towship Rd. 251	Findlay	OH	45840	Yardwaste	10	NA	NA	NA	NA
Findlay Warehousing Co Inc	C4R	Active	Hancock	8556 Cty Rd 140	Findlay	OH	45841	Yardwaste	193	NA	NA	NA	NA
TOTAL									3,739				

Notes:
All data are actual reported amounts.
C4R - Class IV Facility
C3R - Class III Facility
NA - Not Available

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE III-10
SOLID WASTE HAULERS OPERATING IN THE DISTRICT (2010)

NAME OF HAULING COMPANY	MAILING ADDRESS	CITY	STATE	ZIP CODE	DESCRIPTION OF COLLECTION ROUTES	TONS COLLECTED FROM DISTRICT (TPY)	FACILITIES USED BY HAULER
A&E Curbside	P.O. Box 682	Findlay	OH	45840			
Allied Waste of Carey	11164 C-4	Carey	OH	43316			
Alt Refuse, Ltd	P.O. Box 260	Ottawa	OH	45875			
Benchmark Preservation	217 Wein St.	Spencerville	OH	45887			
Bill's Rubbish	P.O. Box 1312	Findlay	OH	45840			
Butler Disposal Service	8434 T-95	Rawson	OH	45881			
C&A Disposal	12050 CR 109	Findlay	OH	45840			
Carl's Rubbish	230 Park Dr. S.	McComb	OH	45858			
Curt's Hauling	P.O. Box 1714	Findlay	OH	45839			
Dave's Hauling	P.O. Box 1226	Findlay	OH	45840			
Double K Sanitation	410 E. Findlay St.	Carey	OH	43316			
G.I.B.S.	546 W. Fourth St.	Fostoria	OH	44830			
Gregory Seek	425 Monroe Lot #16	Findlay	OH	45840			
Griffith Trash Pickup Service	P.O. Box 2002	Cridersville	OH	45806			
H&O Services LLC	P.O. Box 923	Findlay	OH	45840			
Hancock Disposal	2321 W. Skyview Dr.	Findlay	OH	45840			
J&N Hall-ers	2668 C-10	Ada	OH	45810			
J&T Rubbish	809 N. Hill Trail	Findlay	OH	45840			
JC Hauling	720 Apple Blossom Ln.	Arlington	OH	45814			
Jesus Vela	431 Scott Ave.	Findlay	OH	45840			
K.C. Hauling	2124 TR 42	Mt. Cory	OH	45868			
Karl's Hauling	1590 S. SR 53	Tiffin	OH	44883			
Kice Enterprises LLC	P.O. Box 439	Arlington	OH	45814			
Lewis Disposal	4104 T-238	Arcadia	OH	44804			
Marvin's Rubbish	P.O. Box 14	McComb	OH	45858			
N.A.T. Transportation, Inc.	11101 Pemberville Rd.	Bradner	OH	43406			
Osborne Roll-off Service	4625 E. Lincoln Hwy	Columbus Grove	OH	45830			
Patterson Sanitation Service	220 Summit St.	North Baltimore	OH	45872			
Paul's Commercial Hauling	P.O. Box 207	Findlay	OH	45840			
R&B Hauling Service	P.O. Box 892	Findlay	OH	45839			
R&S Hauling	208 E. Ash Ave.	Findlay	OH	45840			
RD Lehman Solid Waste Hauler	4505 C-26	Rawson	OH	45881			
Rettig Rubbish Removal	4700 T-39	Rawson	OH	45881			
S&K Rolloff Services LLC	6260 N. Phillips Rd.	Bluffton	OH	45817			
Solutions LLC	1331 Broad Ave., Suite 6	Findlay	OH	45840			
Turtles Hauling	1621 Bank St.	Findlay	OH	45840			
Waste Management - Lima	1550 E. Fourth St.	Lima	OH	45804			
Waste Management of Ohio	6525 Wales Rd.	Northwood	OH	43619			

IV. REFERENCE YEAR POPULATION, WASTE GENERATION AND WASTE REDUCTION

A. Reference Year Population and Residential/Commercial Waste Generation

1. Population

According to the Ohio Department of Development's Office of Strategic Research, the population of Hancock County in 2010 was 74,782 people, as obtained from the 2010 U.S. Census.

Ohio law requires that the entire population of a municipality or village that straddles solid waste management district boundaries be considered in the population estimate for the district where the majority of the population of the municipality or village resides. There are two communities that are located partially within the District and partially in other solid waste management districts. Portions of the City of Fostoria and the Village of Bluffton are located in Hancock County; however, the majority of the populations of Fostoria and Bluffton are located in Seneca County and Allen County, respectively. Thus, the population of the District has been adjusted to exclude the populations of the portions of Fostoria and Bluffton located within Hancock County.

As stated previously, the total population of Hancock County in 2010 was 74,782 people. According to the 2010 Census, the populations of the portions Fostoria and Bluffton that are located within Hancock County were 2,932 and 173 people, respectively. Therefore, as shown in Table IV-1, the estimated population for the District for the reference year is 71,677 people.

2. Generation Rate

The waste generation for municipal solid waste was calculated using the U.S. EPA report *Municipal Solid Waste in the United States: 2010 Facts and Figures*. This is the latest available publication in a series of publications describing the national waste stream. According to this report, the national average per capita generation rate in 2010 was 4.43 pounds per capita per day. Multiplying this generation rate times the population of the District in 2010 results in an estimated residential/commercial waste generation of 57,949 tons for 2010, as shown in Table IV-1.

B. Industrial Waste Generation

The District conducted a survey of the industrial sector to attempt to estimate industrial waste generation for the reference year. The list of surveyed industrial entities was compiled using the 2010 Harris Ohio Industrial Directory. A total of 120 surveys were sent to the industrial sector and 37 responses were received, an equivalent response rate of 31%. Although this response rate appears low, it should be noted that the responding businesses represented 82% of the total industrial population of Hancock County. Copies of the survey forms and survey results are included in Appendix F.1.

To determine the amount of industrial waste generated in 2010, three different calculation methods were employed. The results of each method were then compared to determine which provided the most accurate estimate of industrial waste generation during the reference year. Table IV-3 provides the results from the first method, which was based on generation as reported by survey respondents. That is, the District estimated the non-responding industry generation by multiplying the number of non-respondent employees in each Standard Industrial Classification (SIC) category by the average respondent generation rate. A sample calculation is provided on Table IV-3. This method yields a total industrial waste generation for the District of 184,356 tons.

While estimating the non-respondent industries from received responses is generally the method recommended by Ohio EPA to calculate waste generation, a second method may be employed in certain circumstances. In particular, "if the number of responding industries is less than 20 for a given SIC category, if the largest facilities have not responded to the survey, or if the number of

facilities in the district for a particular SIC category is very small, the district should consider using the values presented in Table JJ-2" of the *District Solid Waste Management Plan Format (Version 3.0)*. These conditions are satisfied as all of the SIC categories within the District had less than 20 responding industries. Thus, the second method used by the District was to calculate the industrial waste generation by using Table JJ-2 of the Format. The total industrial waste generation calculated using this method was 108,947 tons, as shown in Table IV-3A.

Finally, for the third method, industrial waste generation was calculated by adding the quantity of waste from the District reported as having been disposed in landfill facilities to the quantity of industrial material reported as having been recycled in the reference year. According to the Draft Hancock County Annual District Report Form for 2010, prepared by Ohio EPA, landfill facilities reported receiving 11,852 tons of industrial waste for disposal in 2010. With the addition of the recycling efforts of 77,029 tons obtained from recycling surveys, the total industrial waste generation for the 2010 reference year was calculated as 88,881 tons. For the purposes of this Plan update, the actual quantity of 88,881 tons will be used as the industrial waste generation for the reference year.

C. Exempt Waste Generation

This category of waste includes all waste disposed in landfills which is not characterized as solid waste, including construction and demolition debris (C&DD). According to the Draft Hancock County Annual District Report Form for 2010, a total of 11,212 tons of exempt waste from the District was disposed in landfill facilities in 2010, including 11,054 tons of C&DD and 159 tons of other exempt waste. These quantities are presented in Table IV-4.

D. Total Waste Generation

Using the information generated in the previous sections, Table IV-5 presents the total waste generation for the District in 2010. Total waste generation includes residential/commercial solid waste, industrial solid waste, and exempt waste totaling 178,108 tons.

Note that the quantity presented for residential/commercial waste is based on national generation rates. As is explained later in this section, this Plan update uses an alternate quantity for the amount of waste generated for the residential/commercial sector in 2010. The same is true for the quantity of industrial waste generated in the reference year. The quantity that is presented in Table IV-5 was estimated using the method presented in Appendix JJ of the Format (the second method discussed in Section B). The quantities that are used as the basis for future projections for both residential/commercial and industrial waste generation were determined by adding the amount of waste disposed in landfills and the amount of material recycled in 2010 (see Section G).

E. Reference Year Waste Reduction

This section contains a discussion of the solid waste reduction and recycling efforts undertaken within the District via the strategies employed for waste reduction and recycling.

1. Residential/Commercial Sector

The amount of solid waste reduced through source reduction, recycling, incineration, and composting for the residential/commercial sector in 2010 was 14,432 tons, as presented in Table IV-6. All quantities presented in Table IV-6 were derived from actual quantities as reported through commercial and recycler surveys as well as District data on special collections (as provided in Appendix F.2 and F.3). Further, all quantities presented in Table IV-6 have been adjusted to eliminate double counting. These adjustments are presented in Appendix F.4.

It should be noted that the residential/commercial waste reduction data has been amended since submittal of the 2010 Annual District Report (ADR) to the Ohio EPA. Upon submittal of the ADR, residential/commercial recycling was reported to be 20,598 tons. However, at the time of

the ADR submittal, the 2010 survey was not yet complete; the ADR utilized data for calendar year 2009. For the purposes of this Plan update, the District utilized the data collected from the 2010 survey, as reflected in Appendix F. Additionally, the District made adjustments to some of the 2010 survey data as certain quantities were determined to be non-creditable. These adjustments are noted in Appendix F2.B. and F.3.

An inventory of the waste reduction and recycling programs that were available in 2010 as well as the commercial and recycling entities that reported recycling quantities via the 2010 survey were presented in Table III-5 in Section III. The following narrative describes all of the existing activities and programs that were performed and funded by the District as a part of the District-wide residential/commercial recycling efforts in the reference year. For planning purposes, all activities and programs implemented prior to December 31, 2010 are considered existing. Programs or activities implemented after 2010 are considered new and are discussed in Section V. A discussion regarding the assumptions associated with future projections of the quantities of material to be recovered from each program is also provided in Section V.

Existing Recycling Activities	**Year of Initiation**
Spring Clean-Up Day	**1983**

Spring Clean-Up Day is a countywide litter collection and beautification effort. It is typically held on the last Saturday in April and is part of the litter awareness campaign "Keep Hancock County Beautiful," which is a paid affiliate of the nationwide Keep America Beautiful Campaign and the Great American Clean Up. Roadway cleanups, river cleanups, other litter collection activities, tree and flower plantings, and removal of graffiti are characteristic projects that occur as part of this campaign, which runs from the beginning of April to the end of May.

Volunteers participating in litter collection projects on Spring Clean Up Day are encouraged to separate recyclable materials from general trash for recycling at Litter Landing. The District provides bags and materials for these events and staff from Litter Landing collect and transport the bagged recyclables and trash to Litter Landing and the Hancock County Sanitary Landfill, respectively. Additionally, a luncheon is held on Spring Clean Up Day to reward all the volunteers that participated in Spring Clean Up Day and the Keep Hancock County Beautiful program.

The District publicizes Spring Clean-Up Day through news releases and advertisements in the *Findlay Courier* and on local radio stations. The event is also promoted through the District's booth at the Leisure Living Show in March, the District's website and online on various community calendars.

Responsible entities: The District provides the funding for Spring Clean-Up Day and District staff plan and oversee implementation of the event. Labor for the event is provided by volunteers from various community and youth organizations such as the Girl Scouts, Boy Scouts, and 4-H. In 2010, approximately 1,500 volunteers participated in the event.

Service area that benefits: Projects associated with Spring Clean-Up Day are performed District-wide; thus, the entire county benefits from this activity.

Amount and type of material reduced and/or recycled: As this event is primarily focused on cleaning up litter, there are no specific materials that are targeted for recycling. Recyclables are collected and taken to Litter Landing to be processed, but a discrete quantity cannot be associated with this activity.

Strengths of the program: Spring Clean-Up Day is a high-profile event that helps to promote the District and its activities within the county. There is strong participation in the event.

Weaknesses of the program: Spring Clean-Up Day does not result in reportable quantities of recyclable materials being collected. As a result, it is not possible to determine to what extent this program helps the District achieve its waste reduction and recycling goals.

Tire Collection Days & Landfill Collection **1996**

A Tire Collection Day was held on June 12, 2010. This event is typically held once a year during the summer. In addition, tires are accepted year-round at the Hancock County Sanitary Landfill and are transported to scrap tire processors. The cost for tire disposal at the landfill includes the regular fees plus a scrap tire surcharge.

Only non-commercial generators are permitted to bring tires to the Tire Collection Days. Although residents are not charged to participate, each participant must provide proof of their residency in Hancock County. Furthermore, each participant is limited to four tires, each vehicle is limited to eight tires, and all tires must be 17 inches or less in diameter and be off the rim. Cooper Tire & Rubber co-sponsors the event, providing labor and collection trailers. Cooper Tire & Rubber also transports the collected tires to a scrap tire processor. As with all of the collection programs, the Tire Collection Days are promoted via news releases, advertisements in the *Findlay Courier*, the District's booth at special events, the District website and various on-line community calendars.

Responsible entities: The District provides funding for the processing of the tires collected at the Tire Collection Days and also provides advertising for the events. District staff plan and oversee implementation of the events. Cooper Tire & Rubber provide labor, trailers, and hauling services. Community volunteers also provide labor. Collection at the landfill is overseen by staff of the Hancock County Sanitary Landfill.

Service area that benefits: Tire Collection Days and the landfill are open to all Hancock County residents.

Amount and type of material reduced/recycled: Scrap tires, primarily passenger and light duty truck tires, are the targeted material. In 2010, approximately 2,000 tires were collected at the events and 1,800 tires were collected at the landfill, a total of approximately 43 tons.

Strengths of the program: The Tire Collection Days and the ongoing collection at the landfill provide much needed outlets for a waste stream that is difficult to manage through other means.

Weaknesses of the program: While the landfill collection does accept truck and tractor tires for a fee, these larger tires are not accepted at the Tire Collection Days. Thus, a significant portion of the scrap tires generated in Hancock County, which is predominantly rural, are not addressed via the free annual tire collection events.

Annual Recycling Awards **1983**

The Annual Recycling Awards is an event through which individuals or organizations that have excelled in litter prevention or recycling efforts during the past year are recognized. The event normally occurs in the fall and is an awards banquet with a guest speaker. Those receiving awards are provided with dinner and gifts with a recycling theme. Non-award recipients are also invited to attend the event for a small fee. The District bestows awards based on their knowledge of recycling activities that occurred throughout the District in the previous year. The event is promoted via news releases and newspaper advertisements in the *Findlay Courier*.

The District did not hold this program in 2009 or 2010 due to reduced attendance and lack of interest. This program will be discontinued for the planning period as the District feels that it is not adequately promoting additional waste reduction and recycling within the District.

Responsible entities: The District provides the funding for the event and District staff plan and oversee its implementation. Area businesses and industries also provide donations to offset the cost of this activity.

Service area that benefits: The individuals or organizations that receive awards are the primary beneficiaries of the program.

Amount and type of material reduced/recycled: The Annual Recycling Awards do not target particular materials for reduction/recycling nor are measurable quantities of material associated with the program.

Strengths of the program: This program provides recognition to individuals and organizations that make an extra effort towards environmental awareness. Thus, the program is intended to help promote waste reduction and recycling and maintain interest in District programs.

Weaknesses of the program: Because the event does not result in a discrete quantity of material being recycled, it does not directly contribute to the District's achievement of its waste reduction and recycling goals.

Don't Bag It / Backyard Composting Program 1993

The primary focus of this program is on (1) encouraging residents to leave grass clippings on their lawns instead of bagging the clippings for disposal and (2) promoting backyard composting as a management method for yard waste and other biodegradable materials.

The program is primarily a public education and awareness program that is carried out through promotional opportunities (community events and presentations) and a brochure that is maintained by the District. The program is promoted through presentations to community adult organizations and the brochure is made available at special events and upon request at the District office. In addition to these District activities, the Ohio State University Extension Hancock County Office offers workshops on backyard composting through their Master Gardeners program.

Responsible entities: The District provides the funding for this strategy and District staff is responsible for its promotion.

Service area that benefits: This program is directed to all residents of Hancock County.

Amount and type of material reduced/recycled: Yard waste is the material targeted by this program. No quantifiable amounts of material are associated with this program.

Strengths of the program: This program targets one of the materials comprising the largest percentage of the solid waste stream.

Weaknesses of the program: Because it is educational in nature, no specific quantities of material reduced or recycled can be attributed to the program.

Yard Waste Management / Composting N/A

Yard waste is managed in the District by multiple registered Class IV composting facilities in Hancock County. In 2010, these facilities included the following (as listed in Table III-6):

- Hancock County Sanitary Landfill
- Bill Moyer Topsoil
- City of Findlay Broad Avenue Compost Site
- Luke Theis
- Findlay Warehousing Co.

In addition, the City of Findlay operates a Green Waste Drop Off Site, located at 350 West High St. This drop off is available to City residents at no charge and is available Monday through Friday, 7:00 am to 3:00 pm weekdays and 8:00 am to 1:00 pm on Saturdays (excluding holidays). The drop off site accepts tree trimmings, brush, leaves and grass clippings. All material accepted at the site is processed at the City's Broad Avenue Compost Site. All material is dropped off at the Green Waste site; residents may not take material directly to the City's compost facility.

AE Curbside Recycling (described further below) also provides collection of yard waste as part of their subscription curbside recycling service. The District refers any interested entities to these outlets.

Responsible entities: The majority of these composting facilities are privately-owned. The Hancock County Sanitary Landfill and City of Findlay Compost Site are municipally-owned by Hancock County and the City of Findlay, respectively.

Service area that benefits: These facilities are available to all residents and businesses in Hancock County.

Amount and type of material reduced/recycled: Yard waste is the primary material collected by the compost facilities. In 2010, these facilities collectively reported processing 3,739 tons of yard waste.

Strengths of the program: These facilities target yard waste, which comprises a significant percentage of the waste stream. They generally provide a convenient method for residents to manage yard waste materials.

Weaknesses of the program: With the exception of the service provided by AE Curbside Recycling, residents must transport and drop-off their materials at the compost facilities. In addition, the majority of these facilities are privately-owned and thus the District has no influence over their future operation or viability.

Christmas Tree Recycling 1993

This program is offered from December 26th through mid-January to residents of Hancock County. There are seven drop-off locations that are established around the County where residents can take their used Christmas trees. Within the City of Findlay, the City collects the trees from residents and transports them to the designated drop-off locations. Collected trees are either chipped for use as mulch, used to create wildlife habitat, for fish management, and fence row support.

Responsible entities: The District provides the funding for advertising the event and the cost of hauling; District staff plan and oversee its implementation. The City of Findlay provides collection service to residents of the City. Chipping service is provided as a donation by the Hancock-Wood Electric Company.

Service area that benefits: This program is available to all residents of Hancock County.

Amount and type of material reduced/recycled: Christmas trees are the material targeted by this program. In 2010, an estimated 300 trees were collected.

Strengths of the program: The program provides a management alternative for a bulky and difficult to manage waste stream.

Weaknesses of the program: It has historically been difficult to obtain an accurate count of trees collected and calculate a quantifiable weight of material managed through the program.

Household Hazardous Waste Collection Day 1996

This annual event was offered in 2010 on September 11th at the Agricultural Service Center in Findlay. Residents are permitted to bring most household hazardous wastes, with the exception of explosives, ammunition, and radioactive materials. There is no charge to participate, however participants are required to provide proof of residence in Hancock County. Labor and collection services are provided by a contractor. Promotion of the event is achieved via news releases, advertisements in the *Findlay Courier*, information provided at the District's booth at special events, and various on-line community calendars.

Responsible entities: The District provides the funding for the event and District staff plan and oversee its implementation. Labor for the collection day is provided by a hazardous waste contractor, as well as District staff and volunteers.

Service area that benefits: This program is available to all residents of Hancock County.

Amount and type of material reduced/recycled: Household hazardous wastes, such as paint, paint thinners, antifreeze, fuels, and mercury, are the materials targeted by this program. In 2010, a total of 18 tons of household hazardous waste were collected and recycled through this program.

Strengths of the program: This collection event is very popular with District residents and provides a safe management option for one of the more dangerous portions of the residential/commercial waste stream.

Weaknesses of the program: The program is relatively expensive to provide.

Litter Landing HHW & Paint Collection **2010**

This program was offered for the first time in 2010. Through this program HHW and paints were collected at Litter Landing on Mondays from May to November. In 2010, collection was limited to latex, aluminum and oil-based paints; aerosol paint cans; aerosol pesticides; and compact fluorescent and HID bulbs. Items are collected free of charge to Hancock County residents. The program is co-sponsored by Radar Environmental Services

Responsible entities: The District provides the funding for the program and District staff oversees its implementation. Labor for the collection day is provided by Litter Landing staff and a hazardous waste contractor.

Service area that benefits: This program is available to all residents of Hancock County.

Amount and type of material reduced/recycled: Household hazardous wastes, including paint, aerosols and light bulbs, are the materials targeted by this program. In 2010, a total of 27 tons of household hazardous waste were collected and recycled through this program.

Strengths of the program: This collection event is very popular with District residents and provides a safe management option for one of the more dangerous portions of the residential/commercial waste stream.

Weaknesses of the program: In 2010, the program did not provide collection of all types of HHW, only paint, aerosols and light bulbs. The program is also relatively expensive to provide.

Electronics Collection Day **2004**

This is a one-day collection event offered annually to District residents to provide a management alternative for electronics, such as televisions, computer monitors, computers, and cell phones. The event was held in 2010 on August 21st and a total of 323 televisions, 396 monitors and 339 CPUs were collected and recycled (30 tons). There were 531 cars participated in the event. Creative Recycling Systems was contracted to collect the electronic materials. Promotion of the event is achieved via news releases, advertisements in the *Findlay Courier*, and information provided at the District's booth at special events.

Responsible entities: The District provides the funding for the event and District staff plan and oversee its implementation. Labor for the collection day is provided by a contractor.

Service area that benefits: This program is available to all residents of Hancock County.

Amount and type of material reduced/recycled: Electronics, such as televisions and computer monitors, are the materials targeted by this program. In 2010, a total of 30 tons of electronic units were collected and recycled.

Strengths of the program: This collection event is very popular with District residents and provides a safe management option for this portion of the residential/commercial waste stream.

Weaknesses of the program: Because the program is a temporary collection event, it does not provide residents with a permanent outlet for managing electronics.

Adopt-a-Road **1994**

This program is designed to clean-up county and township roadways throughout Hancock County. Through this program, interested parties "adopt" a two-mile section of county or township roadway and agree to keep it clean and free of litter and debris by conducting cleanups a minimum of four times per year for a two year period. In appreciation of their efforts, and to give the groups recognition, a sign is posted on either end of the group's section of the roadway. The District runs two newspaper advertisements per year to promote the program, sends notices to community service organizations to attract new participants, provides one presentation annually to promote the program, and includes information regarding the program at the District booth at special events. There were approximately 50 active Adopt-a-Road groups in 2010.

Responsible entities: The District provides the funding for this activity and District staff plan, promote, and oversee its implementation. Labor is provided by volunteers from various community organizations.

Service area that benefits: Anyone within the District can participate and any county or township roadway is eligible for inclusion in the program.

Amount and type of material reduced/recycled: As this event is primarily focused on cleaning up litter, there are not specific materials targeted for recycling. Recyclables are collected and taken to Litter Landing to be processed, but a discreet quantity cannot be associated with this activity.

Strengths of the program: The cost to the District to implement this program is relatively minimal and the program provides support for an environmental issue that directly impacts residents of the District.

Weaknesses of the program: This activity does not result in reportable quantities of recyclable materials being collected. As a result, it is not possible to determine to what extent this program helps the District achieve its waste reduction and recycling goals.

Litter Crew **1990**

This program is an extension of the Adopt-a-Road and Litter Landing programs. As part of the Adopt-a-Road program, the Litter Crew picks up litter on county roads throughout the District that are not managed by Adopt-a-Road volunteers. Additionally, the Litter Crew also responds to calls received by the District and/or the sheriff's department regarding dump sites along public roads. As part of the Litter Landing program, this crew picks up recyclables collected at a portion of the businesses and government offices serviced by Litter Landing.

Responsible entities: The District provides the funding for this activity, including salary, vehicle, and fuel costs. District staff plan and oversee its implementation.

Service area that benefits: This program benefits all residents in Hancock County via the management of roadside litter; commercial, industrial, and governmental entities provided recycling pick-up service by the crew are also directly benefited.

Amount and type of material reduced/recycled: The materials collected on the business recycling routes vary from location to location, but typically include glass, plastics, nonferrous metals, ferrous metals, corrugated cardboard, and paper. All recyclables collected, both from the roadside litter pickup and the business recycling routes, are taken to Litter Landing for processing. As such, the quantity of material collected through the units is not available as a discrete number but is included in the total amount reported for Litter Landing.

Strengths of the program: Both the litter and recycling aspects of this program are highly utilized and provide important services to the District.

Weaknesses of the program: Historically, there has not been sufficient manpower to meet the demand for this program, especially for the business recycling routes. There are many more businesses that request recycling services than Litter Landing and the Litter Crew can accommodate.

Litter Landing **1983**

Litter Landing is recycling facility owned by the Hancock County Board of Commissioners and located in the City of Findlay. The facility is operated by the District and consists of processing and donation centers. There are four vertical balers, one horizontal baler, a can sorter and two glass crushers at the facility that are used to process material that is received. All material that is collected through community-based programs, such as the drop-off recycling locations, is brought to Litter Landing for processing. Material from individual residents and commercial and industrial businesses is also accepted and processed at the facility. The donation center is open 24 hours per day, seven days per week and is manned Monday through Friday from 7:00 am to 7:00 pm, Saturday from 7:00 am to 5:00 pm, and Sunday from 7:00 am to 3:00 pm.

Materials that are collected and processed at Litter Landing are shipped to at least ten major vendors located in Ohio and Indiana. The District maintains a brochure that lists all of the materials that are accepted at Litter Landing, how the materials should be prepared prior to dropping them off, and the hours that the donation center is open to the public. This information is also available on the District website. Tours of Litter Landing are available to groups and organizations upon request.

Responsible entities: The District provides the funding for this activity and District staff plan, promote, and oversee its implementation.

Service area that benefits: Litter Landing is available to all residents and businesses in Hancock County.

Amount and type of material reduced/recycled: The materials collected and processed at Litter Landing include glass, plastics (#1,2,3,5,7), nonferrous metals (aluminum cans, scrap aluminum, copper), ferrous metals (steel cans, scrap steel), corrugated cardboard, paper (newspaper, magazines, catalogs, telephone books, books, office paper, mail, cardstock) and electronics. In 2010, 4,968 tons of material was processed at Litter Landing.

Strengths of the program: Litter Landing provides for the collection of a wide range of materials from residential and commercial sources. The donation center is open 24/7, providing for strong participation.

Weaknesses of the program: There is significantly more demand than the facility can accommodate. The current processing and storage capacity are maximized and the layout is not amenable to significant expansion, especially to allow proper access for large trucks from industry and commercial businesses. Additionally, Litter Landing is expensive to operate.

Permanent Drop-Off Recycling Units 2001/2002

In 2010, the District operated 11 permanent drop-off recycling locations, plus a donation center at Litter Landing, to provide District residents with recycling opportunities (refer to Recycling Drop-Off Locations in Appendix G). The units at each of these locations are permanent, modular units and are available 24 hours a day, seven days a week. Corrugated cardboard, newspaper, magazines, aluminum, plastics, and steel cans are collected at each unit. The units are serviced by staff from Litter Landing and the recyclable materials are taken to Litter Landing for processing. Each permanent drop off is serviced at least twice a week or more often as necessary. Availability of the permanent recycling units is advertised through newsletters and brochures, on the District website, and at the District booth at special events.

Responsible entities: The District provides the funding for the permanent drop-off units and District staff plan, promote, and oversee their implementation as part of the Litter Landing program.

Service area that benefits: The permanent recycling units are offered at 12 specific locations within the District, but are available for use by all residents and businesses within the District.

Amount and type of material reduced/recycled: The materials collected through the permanent recycling units are paper, cardboard, aluminum cans, steel cans, plastics, and glass. All materials collected via the recycling units are taken to Litter Landing for processing. As such, the quantity of material collected through the units is not available as a discrete number but is included in the total amount reported for Litter Landing.

Strengths of the program: The permanent recycling units provide residents with additional opportunities to recycle and are an integral part of the District's implementation of State Plan Goal #1, the "access goal," within the District.

Weaknesses of the program: The collection from the permanent recycling location is a labor intensive process and significant expansion of the program is somewhat limited by the processing constraints at Litter Landing.

Mobile Drop-Off Recycling Units **2000**

The District operates three mobile recycling trailers, which provide service to a network of six rural locations in villages/townships in the District and six urban locations in the City of Findlay. The trailers are available at each site at a regularly scheduled time once or twice a month (refer to Mobile Trailer Locations & Schedule in Appendix G). Cardboard, paper, magazines, aluminum and steel cans, plastic containers, and glass are collected at all 12 sites. The recycling trailers are serviced by staff from Litter Landing and the recyclable materials collected are taken to Litter Landing for processing. Advertising the availability and schedule of the mobile recycling units is the responsibility of each of the sponsoring communities.

Responsible entities: The District provides the funding for the mobile units and District staff plan, promote, and oversee their implementation as part of the Litter Landing program.

Service area that benefits: The mobile recycling units are offered at 12 specific locations within the District, but are available for use by all residents and businesses within the District.

Amount and type of material reduced/recycled: The materials collected through the mobile recycling units are paper, cardboard, aluminum cans, steel cans, plastics, and glass. All materials collected via the mobile recycling units are taken to Litter Landing for processing. As such, the quantity of material collected through the units is not available as a discrete number but is included in the total amount reported for Litter Landing.

Strengths of the program: The mobile recycling units provide residents with additional opportunities to recycle and are an integral part of the District's implementation of State Plan Goal #1, the "access goal," within the District.

Weaknesses of the program: Much like the permanent recycling units, operating the mobile units is a very labor intensive process. Additionally, the demand for the mobile trailers has historically exceeded their availability.

Curbside Recycling Program **2004**

Subscription curbside recycling is offered in the City of Findlay by AE Curbside Service. The program offers collection of commingled paper, cardboard, aluminum cans, steel cans, glass, and plastic containers. Yard waste collection is also offered for an additional fee. AE Curbside Service offers residential curbside recycling (weekly or biweekly collection), commercial recycling collection, and residential garbage hauling. The monthly costs of some of the various services are provided below.

Weekly Curbside Recycling	$ 11.00
Biweekly Curbside Recycling	$ 7.00
Combined Recycling & Garbage	$ 23.00
Weekly Commercial Recycling	$ 20.00 and up

(Costs provided on www.aecurbside.com – June 2012)

The focus of AE Curbside is curbside recycling; garbage hauling is offered as a supplement to the curbside recycling program. All residential customers of AE Curbside are provided an 18-gallon tote bin for their commingled recyclables and refuse is accepted in garbage bags, trash cans or 96 gallon container (provided for a fee). Commercial recycling customers receive similar tote bins for use in their office or facility. The interval of collection for commercial service varies and is determined based on the company's specific needs.

Responsible entities: This program is privately owned and operated by AE Curbside.

Service area that benefits: This program is available to all residents and commercial businesses in the City of Findlay.

Amount and type of material reduced/recycled: The materials collected by AE Curbside include plastics, glass, paper, steel cans, aluminum cans, and cardboard. All materials collected, except for ferrous and non-ferrous metals and yard waste, are taken to Litter Landing for processing. Metals

are typically taken to Flag City Recycling, a local recycler/broker. Yard waste is taken to a registered composting facility. In 2010, AE Curbside reported collecting 41 tons of recyclables.

Strengths of the program: This program is currently the only curbside recycling program available in the City of Findlay. It provides a convenient and consistent method for subscribers to manage recyclable materials.

Weaknesses of the program: Given that the City of Findlay has over of 17,000 households (per the 2010 U.S. Census), the number of households currently subscribing to AE Curbside services (640 in 2010) is very low.

Landfill Appliance Collection **1998**

Large appliances are accepted year-round at the Hancock County Sanitary Landfill and are transported to scrap metal processors. The cost for appliances at the landfill includes the regular fees plus a white goods surcharge.

Responsible entities: Collection at the landfill is overseen by staff of the Hancock County Sanitary Landfill.

Service area that benefits: This program is available to all residents of Hancock County.

Amount and type of material reduced/recycled: Major appliances are the targeted material. In 2010, 159 appliances were collected at the landfill, a total of approximately 12 tons.

Strengths of the program: This program provides a management alternative for a bulky and difficult to manage waste stream. In addition, as the collection is performed at the landfill, and the material collected is sold at market value, there are no District costs associated with the program.

Weaknesses of the program: Although the landfill accepts appliances year round for a fee, this program does not provide residents with a permanent, low cost option for managing appliances.

Public Education & Awareness **N/A**

The District employs a part-time educator that is responsible for providing education and awareness to District residents. Education and awareness activities are available to all demographic groups within the District. Preschoolers are visited at daycare facilities and informed of what materials can be recycled and the importance of not littering. Third graders are visited every year and are taught about the importance of recycling and the effects recycling can have on natural resources and landfills; these visits include an in-class presentation and hands-on recycling activity. Adults are reached through such groups as rotary clubs, youth advisor trainings, and religious groups and are provided with information on a variety of recycling topics upon request. The District also has a booth available at several local annual events, including the Hancock County Fair, Leisure Living Show, Findlay Rib-Off, etc. The District also provides bottle bins at these events to provide a recycling outlet for plastic, glass and aluminum beverage containers. In 2010, the District conducted 41 presentations reaching nearly 1,500 youth and adults about recycling and conservation efforts.

Responsible entities: The District provides the funding for this activity and District staff plan, promote, and oversee its implementation.

Service area that benefits: This program is directed to all residents of Hancock County.

Amount and type of material reduced/recycled: This program generally does not target particular materials for reduction/recycling nor are measurable quantities of material associated with the program. Recyclables collected at public events are taken to Litter Landing for processing; the quantity is included in the total amount reported for Litter Landing.

Strengths of the program: District staff reach a wide variety of audiences through their education and awareness efforts.

Weaknesses of the program: Because it is an educational program, no specific quantities of material reduced or recycled can be attributed to the program.

District Website **2006**

The District's website, www.hancockenvironment.com, serves as a clearinghouse of information on District activities and programs and is a significant promotional tool for the District. Topics offered on the website include:

- A comprehensive recycling guide, including information on the permanent and mobile recycling units and details for upcoming collection events;
- Information on litter, including details on the Adopt-a-Road program, Spring Clean Up Day, and Keep America Beautiful;
- A complete guide to Litter Landing, including location, hours of operation, materials accepted and preparation guidelines, and information on community tours and volunteer opportunities;
- Information regarding the Hancock County Sanitary Landfill, including location, hours of operation, and prices;
- Links to other key recycling and solid waste organizations and websites;
- Contact information and a listing of District staff, Policy Committee, and County Commissioners.

The website is updated as needed throughout the year to provide current information on District programs and events, particularly the special collection events. The website link is provided in District literature and at special events.

Responsible entities: The District provides the funding for this activity and District staff plan, promote, and oversee its implementation.

Service area that benefits: This program is directed to all residents of Hancock County.

Amount and type of material reduced/recycled: This program does not target particular materials for reduction/recycling nor are measurable quantities of material associated with the program.

Strengths of the program: The website reaches a wide variety of audiences and provides easy access to information regarding District programs and activities.

Weaknesses of the program: The website must be frequently updated in order to provide current information to District residents. In addition, no specific quantities of material reduced or recycled can be attributed to the program.

List of Existing Recyclers/Brokers **1992**

This is a directory of available outlets for household recyclables. This list is organized by type of material and provides all the outlets available in Hancock County that accept each material. This list of available recyclers and brokers is provided in a brochure format that can be obtained from the District offices and is made available to local realtors to promote and encourage recycling to new residents. The brochure is also provided at the District's booth at special events. The list is updated as needed.

Responsible entities: The District provides the funding for this activity and District staff oversees its implementation.

Service area that benefits: This program benefits all residents and businesses within Hancock County.

Amount and type of material reduced/recycled: The list of recyclers/brokers targets a wide variety of recyclable materials.

Strengths of the program: The list provides information on available outlets for a wide variety of materials.

Weaknesses of the program: No specific quantities of material reduced or recycled can be attributed to the program.

Commercial & Governmental Technical Assistance 1992

Through this program, the District assists area commercial businesses, governmental offices, and other organizations with setting up in-house recycling programs and helps those entities find markets or other outlets for the recyclable materials collected. The ultimate aim of the program is to minimize final waste disposal for participating entities. To achieve this goal, the District provides technical assistance and directs participating entities to existing recycling outlets.

Responsible entities: The District provides the funding for this activity and District staff oversees its implementation and provides technical assistance as requested.

Service area that benefits: This program is available all commercial, governmental, and organizational entities within Hancock County.

Amount and type of material reduced/recycled: This program provides technical assistance to businesses and agencies regarding recycling of a wide variety of recycling materials. The program generally does not target particular materials for reduction/recycling nor are measurable quantities of materials directly associated with the program.

Strengths of the program: The technical assistance provided helps to direct businesses and government agencies to the appropriate programs and outlets available to meet their recycling needs.

Weaknesses of the program: Measurable quantities of materials are not directly associated with the program.

Commercial & Governmental Recycling 1992

Through this program, the District collects recyclable material from area businesses, governmental offices and schools. The collection is offered to interested parties on a case by case basis and is provided free of charge to the participating entities. Materials are collected by Litter Landing staff in conjunction with the regular collection of materials from the drop-off recycling locations. All materials collected are transported to Litter Landing for processing. In 2010, approximately 40 businesses and public locations (e.g. schools, municipal buildings, libraries, etc.) participated in the collection program.

In addition to the commercial recycling achieved through the District's collection program, many commercial businesses recycle on their own, utilizing the District's Litter Landing drop-off, the drop-off recycling units and/or private recycling outlets or brokers. The District conducts a survey of commercial businesses to determine the quantity of material recycled in the commercial sector.

Responsible entities: The District provides the funding for the collection service and District staff oversees its implementation.

Service area that benefits: The collection program is available to all commercial and public entities within Hancock County; the District accepts new participants on a case by case basis based on location, amount of material and collection frequency.

Amount and type of material reduced/recycled: The District's commercial collection service accepts any and all materials accepted at Litter Landing. Measurable quantities of material associated with the collection program area not available; the quantity is included in the total amount reported for Litter Landing. Private sector recycling includes a wide variety of recyclable materials. In 2010, approximately 4,008 tons of material was reported as having been recycled by commercial generators via the solid waste survey.

Strengths of the program: The Litter Landing drop-off and the recyclable pick up service are highly utilized by commercial businesses and contribute a significant portion of the recyclables processed at Litter Landing.

Weaknesses of the program: It is very difficult to obtain reliable quantities of materials recovered from commercial businesses and other organizations, as many do not have the means to quantify (weigh) their recyclable materials. The District believes the amount of material actually being recovered is greater than what is being reported.

2. Industrial Sector

The amount of solid waste reduced through source reduction, recycling, incineration, and composting for the industrial sector was 77,029 tons, as presented in Table IV-7. All quantities presented in Table IV-7 were derived from actual quantities as reported through industry surveys (as provided in Appendix F.1). Further, all quantities presented in Table IV-7 have been adjusted to eliminate double counting. These adjustments are presented in Appendix F.4.

It should be noted that the industrial waste reduction data has been amended since submittal of the 2010 ADR to the Ohio EPA. Upon submittal of the ADR, industrial recycling was reported to be 70,446 tons. However, at the time of the ADR submittal, the 2010 survey was not yet complete; the ADR utilized data for calendar year 2009. For the purposes of this Plan update, the District utilized the data collected from the 2010 survey, as reflected in Appendix F.

An inventory of the industrial entities that reported recycling quantities via the 2010 survey was presented in Table III-5 in Section III. The following narrative describes all of the existing activities and programs that were performed and funded by the District as a part of the District-wide industrial recycling efforts in the reference year. For planning purposes, all activities and programs implemented prior to December 31, 2010 are considered existing. Programs or activities implemented after 2010 are considered new and are discussed in Section V. A discussion regarding the assumptions associated with future projections of the quantities of material to be recovered from each program is also provided in Section V.

Existing Recycling Activities	**Year of Initiation**
Program of Industrial Recycling	**1983**

The District provides a variety of educational and technical assistance to Hancock County businesses regarding recycling and source reduction. Through the Industrial Recycling Program the District:

- Assists new industries in setting up in-house recycling programs;
- Assists in identifying outlets for recyclable materials, including wood pallets, plastics, used oil, paper, and cardboard;
- Provides technical assistance to interested industries on source reduction and waste minimization alternatives;
- Provides coordination services to industries interested in conducting internal efficiency evaluations, which are performed in partnership with the Bureau of Workers Compensation, the University of Findlay, and Toledo University.

In addition, the District regularly surveys industrial generators to determine the quantity of material that has been recycled/reused/minimized by private industrial sector recycling efforts.

Responsible entities: The District provides the funding for this activity and District staff oversees its implementation.

Service area that benefits: This program benefits all industrial businesses within Hancock County.

Amount and type of material reduced/recycled: The private industrial sector recycling includes a wide variety of recyclable materials. In 2010, approximately 77,000 tons of material was reported as having been recycled by industrial generators via the solid waste survey.

Strengths of the program: Private industrial sector recycling continues to maintain a high waste reduction rate.

Weaknesses of the program: Because the industrial sector is currently achieving such high recycling rates, a significant increase in industrial recycling is unlikely unless a new, large facility moves into the county.

Industrial Brunch **2007**

Starting in 2007, the District expanded its Industrial Recycling program with the establishment of a regular "Industrial Brunch." The Industrial Brunch was intended to provide a forum to exchange information and gather ideas from local industry representatives on methods to maintain and increase industrial recycling and source reduction in the District. This program was held in 2007 and 200. The program was not held in 2009 or 2010, due to declining interest and participation.

Responsible entities: The District provides the funding for this activity and District staff oversees its implementation.

Service area that benefits: This program benefits all industrial businesses within Hancock County.

Amount and type of material reduced/recycled: This program provided education and outreach to local industry. The program did not target particular materials for reduction/recycling nor are measurable quantities of materials directly associated with the program.

Strengths of the program: The program provided an opportunity for local industry to meet and share ideas on ways to increase recycling.

Weaknesses of the program: Most of the targeted industrial entities in the District already achieve very high recycling rates and are financially motivated to continue to do so. Therefore, interest in the program waned.

F. Total Waste Generation: Historical Trends of Disposal Plus Waste Reduction

Table IV-8 presents the historical trends in waste generation, recycling, and landfill disposal in the District from 1994 through 2010. The data for this table was obtained from the District's last solid waste management plan update (implemented 2007), annual district reports submitted to Ohio EPA, and data provided by Ohio EPA.

As presented in Table IV-8, and graphically in Figure 4-1, the amount of material recycled in the past five years in the District has remained relatively constant, with a slight increase in 2009-2010. This increase can likely be attributed to extra effort put forth in the 2009 and 2010 survey to increase the number of respondents and follow up the paper survey with phone calls.

In the same five year time period, waste disposal has decreased. Landfill disposal decreased by 16 percent between 2006 and 2010, a trend the District expects to continue in the planning period.

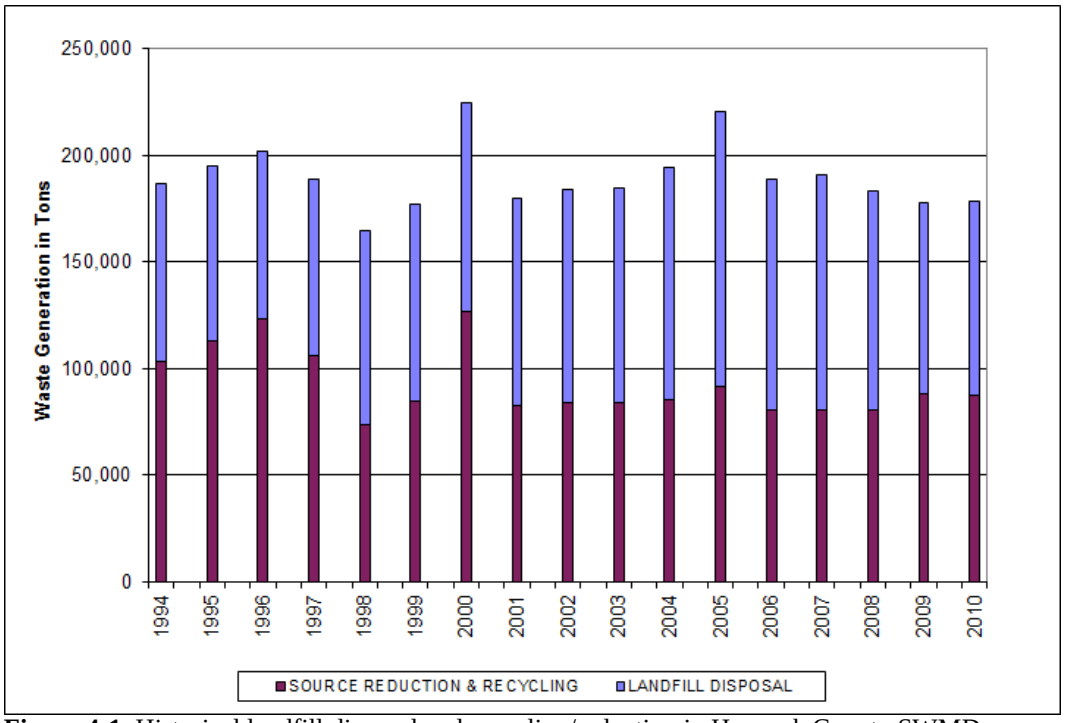


Figure 4-1. Historical landfill disposal and recycling/reduction in Hancock County SWMD.

G. Reconciliation of Waste Generation

For the purposes of this Plan update, waste generation rates that are based on actual data will be used as the basis of projections rather than waste generation rates based on national average generation rates and survey data. Thus, the total waste generation for both the residential/commercial and industrial sectors was calculated by adding together the amount of waste disposed in landfill facilities and the amount of waste reported as recycled in each sector (adjusted for double counting).

1. Residential/Commercial Waste Generation

Landfill Disposal: 67,752 tons

R/C Recycling: 14,432 tons

Total Waste Generation: **82,184 tons**

Using total waste generation of 82,184 tons and a population of 71,677 people, the waste generation rate for the residential/commercial sector was calculated as 6.28 pounds per person per day. As was presented earlier in this section, the national generation rate for municipal solid waste for 2010 was 4.43 pounds per person per day. For the District's 2010 population, using the national generation rate equates to a total residential/commercial generation of 57,949 tons. This quantity is less than the amount of residential/commercial waste owners and operators of landfill facilities reported having accepted from the District for disposal. This suggests that the national generation rate does not properly characterize residential/commercial waste generation for the District. Thus, the generation rate of 6.28 pounds per person per day, calculated using landfill disposal and recycling, is likely a more accurate representation of total District generation for the residential/commercial sector.

According to data from Ohio EPA, a residential/commercial generation rate of 6.28 pounds per person per day is high relative to other districts located adjacent or near to Hancock County, such as Henry County, Putnam County, and Wood County. Ohio EPA data indicates that

residential/commercial waste generation in these districts is in the range of 4.2 to 5.7 pounds per person per day.

The generation rate of 6.28 pounds per person per day appears to primarily stem from the disposal component of the total residential/commercial generation calculation. This disposal data is taken directly from the annual landfill reports provided to Ohio EPA. It is possible that the apparent discrepancy in the generation rate is due to industrial waste being mischaracterized as residential/commercial waste during collection by the waste haulers or acceptance at landfill facilities. However, the District feels this is unlikely, at least for in-district waste disposal. The landfill utilizes a tracking system for all industrial generators whereby all industries are assigned an identification number which is entered when waste from that industry is received at the landfill. Given this system, it is unlikely that a load of industrial waste would be mischaracterized as residential/commercial waste.

Even if this type of mischaracterization is taking place, there is no means by which the District can verify or quantify it. The District has no alternative but to rely on the data as reported by landfills to the Ohio EPA. Therefore, as indicated in Table IV-9, this Plan update will use the generation rate of 6.28 pounds per person per day for the residential/commercial sector, as calculated based on actual reported disposal and recycling.

2. Industrial Waste Generation

Landfill Disposal:	11,852 tons
Industrial Recycling:	77,029 tons
Total Waste Generation:	**88,881 tons**

As was discussed earlier in this section, three calculations were performed to determine industrial waste generation. As with the residential/commercial sector, this Plan update uses waste generation based on actual disposal and recycling quantities for the remainder of the Plan update. This is reflected in Table IV-9.

H. Waste Composition

1. Residential/Commercial Sector

Waste stream composition for the residential/commercial sector was estimated by using information provided in the data tables prepared for the U.S. EPA publication *Municipal Solid Waste in the United States: 2010 Facts and Figures*. These data tables provide the percentages of total waste generation attributed to different materials within the municipal solid waste stream on a national basis. The District's total residential/commercial waste generation (82,184 tons as provided in Table IV-9) was multiplied by the percentages of each component of the waste stream to yield the approximated waste stream composition. The resulting residential/commercial solid waste composition is presented in Table IV-10 and graphically in Figure 4-2, below.

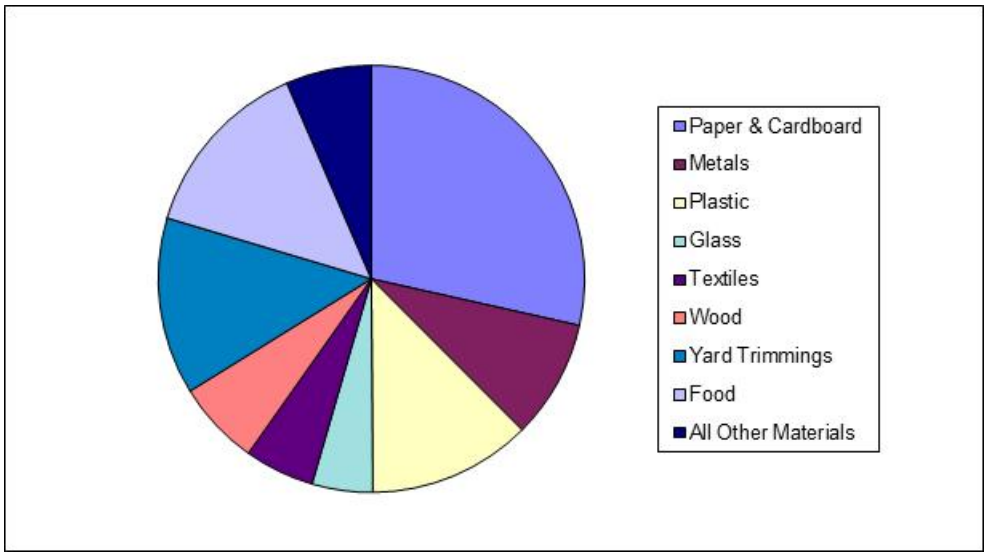


Figure 4-2. Estimated waste composition of material generated in the residential/commercial sector in 2010 in the Hancock County SWMD.

2. Industrial Sector

The solid waste composition for the industrial sector was estimated using the generation data obtained from the industrial surveys. The generation data from the surveys was compiled to provide waste generation per waste stream (industrial generation survey results are provided in Appendix F.1). However, as discussed previously in this section, the District is using reported recycling plus disposal for the total industrial waste generation, which does not match the generation provided via the surveys. Thus, the District determined the percentage of each material from the survey waste generation and applied those percentages to the recycling plus disposal waste generation (88,881 tons as provided in Table IV-9) to determine the waste stream compositions. These compositions are provided in Table IV-11 and shown graphically in Figure 4-3, below.

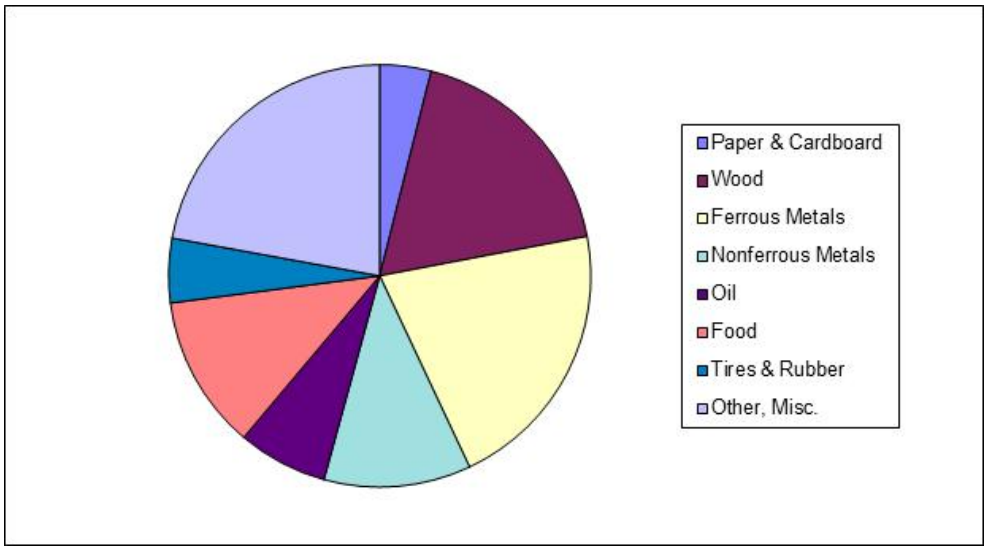


Figure 4-3. Estimated waste composition of material generated in the industrial sector in 2010 in the Hancock County SWMD.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE IV-1
REFERENCE YEAR POPULATION AND RESIDENTIAL/COMMERCIAL GENERATION

COUNTY NAME	POPULATION		GENERATION RATE (lbs/person/day)	TOTAL DISTRICT GENERATION (tons)
	Before Adjustment	After Adjustment		
HANCOCK	74,782	71,677	4.43	57,949

Notes:

1. Generation rate used from USEPA *Municipal Solid Waste in the United States: 2010 Facts and Figures*

2. The population of the portions of Fostoria and Bluffton located within Hancock County are estimated to be 2,932 and 173, respectively.

Sample Calculation:

$$\frac{71{,}677 * 4.43 \text{ lb/person/day} * 365 \text{ days}}{2000 \text{ lb/ton}} = 57{,}949 \text{ tons}$$

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE IV-3
INDUSTRIAL WASTE GENERATION
SURVEY RESPONDENTS vs NON-RESPONDENTS

SIC	SURVEY RESPONDENTS				SURVEY NON-RESPONDENTS			TOTAL WASTE GENERATED TONS	PERCENT OF TOTAL
	NO. OF INDUSTRIES	NO. OF EMPLOYEES[1]	WASTE GENERATED TONS	GENERATION RATE: TONS/ PERSON[2]	NO. OF INDUSTRIES	NO. OF EMPLOYEES[1]	WASTE GENERATED TONS		
20	4	1,476	14,690	9.95	9	106	1,055	15,745	8.54%
22	0	0	0	0.00	0	0	0	0	0.00%
23	1	164	323	1.97	5	18	35	358	0.19%
24	1	30	18,289	609.65	5	127	77,425	95,714	51.92%
25	0	0	0	0.00	1	0	0	0	0.00%
26	1	18	1	0.00	3	40	0	1	0.00%
27	1	13	77	5.88	8	40	235	312	0.17%
28	0	0	0	0.00	1	4	0	0	0.00%
29	1	1,800	161	0.09	1	30	3	164	0.09%
30	4	1,446	6,648	4.60	13	844	3,881	10,529	5.71%
31	0	0	0	0.00	0	0	0	0	0.00%
32	1	9	10	0.00	4	46	0	10	0.01%
33	3	26	365	14.04	0	0	0	365	0.20%
34	7	848	32,211	37.98	8	300	11,395	43,606	23.65%
35	7	512	2,845	5.56	12	176	978	3,823	2.07%
36	1	2,000	2,718	1.36	0	0	0	2,718	1.47%
37	4	1,688	8,718	5.16	7	444	2,293	11,011	5.97%
38	0	0	0	0.00	1	6	0	0	0.00%
39	1	1	0	0.00	5	31	0	0	0.00%
TOTAL	37	10,031	87,056	8.68	83	2,212	97,300	184,356	100.0%

Notes:

1. Number of employees were generated from the 2010 *Harris Ohio Industrial Directory* and/or the Findlay-Hancock Chamber of Commerce, except where actual numbers were reported.
2. Generation rate determined from reported total generation. This generation rate was used to calculate generation for non-responding industries.

Sample Calculation:

SIC 20 = survey respondents:

14,690 tons / 1,476 persons = 9.95 tons/ person

survey non-respondents:

9.95 tons/person * 106 persons = 1,055 tons

Total SIC 20 waste generation = 14,690 tons + 1,055 tons = 15,745 tons

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE IV-3A
INDUSTRIAL WASTE GENERATION
SURVEY RESPONDENTS Vs NON-RESPONDENTS
CALCULATED USING TABLE JJ-2 FROM *VERSION 3.0 FORMAT*

SIC	SURVEY RESPONDENTS				SURVEY NON-RESPONDENTS			TOTAL WASTE GENERATED TONS	PERCENT OF TOTAL
	NO. OF INDUSTRIES	NO. OF EMPLOYEES[1]	WASTE GENERATED TONS	GENERATION RATE: TONS/ PERSON[2]	NO. OF INDUSTRIES	NO. OF EMPLOYEES[2]	WASTE GENERATED TONS		
20	4	1,476	14,690	13.92	9	106	1,476	16,166	14.84%
22	0	0	0	9.99	0	0	0	0	0.00%
23	1	164	323	2.80	5	18	50	373	0.34%
24	1	30	18,289	51.62	5	127	6,556	24,845	22.80%
25	0	0	0	1.79	1	0	0	0	0.00%
26	1	18	1	17.50	3	40	700	701	0.64%
27	1	13	77	6.70	8	40	268	345	0.32%
28	0	0	0	12.43	1	4	50	50	0.05%
29	1	1,800	161	7.33	1	30	220	381	0.35%
30	4	1,446	6,648	7.29	13	844	6,153	12,801	11.75%
31	0	0	0	3.41	0	0	0	0	0.00%
32	1	9	10	10.55	4	46	485	495	0.45%
33	3	26	365	36.93	0	0	0	365	0.34%
34	7	848	32,211	11.16	8	300	3,348	35,559	32.64%
35	7	512	2,845	5.72	12	176	1,007	3,852	3.54%
36	1	2,000	2,718	2.98	0	0	0	2,718	2.49%
37	4	1,688	8,718	3.21	7	444	1,425	10,143	9.31%
38	0	0	0	1.74	1	6	10	10	0.01%
39	1	1	0	4.62	5	31	143	143	0.13%
TOTAL	37	10,031	87,056		83	2,212	21,891	108,947	100.0%

Notes:

1. Number of employees were generated from the 2010 *Harris Ohio Industrial Directory* and/or the Findlay-Hancock Chamber of Commerce, except where actual numbers were reported.
2. Generation rates were taken from Table JJ-2 of Ohio EPA's *District Solid Waste Management Plan Format (version 3.0)* .

Sample Calculation:

SIC 20 = Appendix JJ
13.92 tons/person
Survey non-respondents:
13.92 tons/person * 106 person = 1,476 tons
Total SIC 20 waste generation = 14,690 tons + 1,476 tons = 16,166 tons

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE IV-4
EXEMPT WASTE GENERATED IN THE DISTRICT AND DISPOSED IN LANDFILLS

TONS OF EACH WASTE STREAM	GENERATION RATE (lbs/person/day)	TOTAL EXEMPT WASTE GENERATION (TPY)
Construction & Demolition Debris	0.85	11,054
Unknown Exempt	0.01	159
TOTAL	0.86	11,212

Sample Calculation:

$$\frac{11{,}212 \text{ tons} * 2000 \text{ lb/ton}}{365 \text{ days} * 71{,}677 \text{ persons}} = 0.86 \text{ lbs/person/day}$$

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE IV-5
REFERENCE YEAR TOTAL WASTE GENERATION
FOR THE DISTRICT

TYPE OF WASTE	GENERATION RATE (lbs/person/day)	TONS/YEAR
Residential/Commercial	4.43	57,949
Industrial	48.76	108,947
Exempt	0.86	11,212
Total Waste Generation	13.62	178,108

Notes:

1. Res/com generation based on 2010 rate provided in USEPA's *Municipal Solid Waste in the United States: 2010 Facts and Figures.*
2. 2010 adjusted District population is 71,677 (Table IV-1)
3. Industrial generation based on estimated generation from Table IV-3A.
4. Total number of industrial employees is 12,243.

Sample Calculation:

$$\text{Res/com generation rate} = \frac{57{,}949 * 2{,}000}{71{,}677 * 365} = 4.43 \text{ lbs/person/day}$$

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE IV-6
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	NEW WASTE PROCESSED
Source Reduction	0	paper	2,073.4	Incineration		
		cardboard	3,575.1			
		wood	3,145.6	0	0	0
		ferrous	198.2			
		nonferrous	73.7	Composting		
		plastic	321.6			
		glass	462.8	3,752	0	3,752
		oil	0.0			
		food	0.0	Resource Recovery		
		batteries	22.9			
		appliances	536.8	0	0	0
		tires	195.4			
		textiles	0.0			
		HHW	44.9			
		electronics	29.7			
SUBTOTAL	0		10,680			3,752
GRAND TOTAL						**14,432**

Notes:

1. Nonferrous includes aluminum cans.
2. Ferrous includes steel cans and scrap steel.
3. All double counting has been removed.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE IV-7
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	NEW WASTE PROCESSED
Industrial Source Reduction	0	paper	994	Incineration		
		cardboard	3,013			
		wood	19,088	0	0	0
		ferrous	22,981			
		nonferrous	11,492	Composting		
		plastic	1,616			
		glass	0	0	0	0
		ash	0			
		non haz chem	0	Resource Recovery		
		batteries	6			
		tires	3,826	0	0	0
		rubber	1,414			
		food	12,584			
		polyurethane foam	15			
SUBTOTAL	0		77,029			0
GRAND TOTAL						**77,029**

Notes:
1. All double counting has been removed.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE IV-8
TOTAL WASTE GENERATION BASED UPON DISPOSAL PLUS WASTE REDUCTION

YEAR	MANAGEMENT METHOD USED IN TPY							TOTAL WASTE GENERATED
	SOURCE REDUCTION & RECYCLING	YARD WASTE COMPOSTING	YARD WASTE LAND APPLICATION	INCINERATION	MSW COMPOSTING	LANDFILL DISPOSAL	DATA SOURCE	
1994	103,664	2,550	0	31	0	82,984	1	189,229
1995	112,752	0	0	0	0	82,534	1	195,286
1996	123,700	0	0	0	0	78,153	1	201,853
1997	106,236	0	0	0	0	82,343	1	188,579
1998	73,500	2,503	0	0	0	91,383	1	167,386
1999	84,716	0	0	0	0	92,656	1	177,372
2000	126,815	0	0	0	0	97,575	1	224,390
2001	82,441	0	0	0	0	97,275	1	179,716
2002	84,371	0	0	0	0	99,975	1	184,346
2003	84,262	0	0	0	0	100,574	1	184,836
2004	85,623	15	0	0	0	108,563	1	194,201
2005	91,606	463	0	0	0	129,318	2	221,387
2006	80,822	1,125	0	0	0	108,391	2	190,338
2007	80,882	531	0	0	0	109,786	2	191,199
2008	80,732	309	0	0	0	102,355	2	183,396
2009	88,072	5,884	0	0	0	89,958	2	183,914
2010	87,709	3,752	0	0	0	90,816	3	182,277

Notes:

1. From Hancock County Solid Waste Management Plan, 2007
2. From Ohio EPA Annual District Report Review Forms for Hancock County (2005, 2006, 2007, 2008, and 2009)
3. From Chapters III and IV (Tables III-1, III-3, IV-6 and IV-7)

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE IV-9
ADJUSTED REFERENCE YEAR TOTAL WASTE GENERATION FOR THE DISTRICT

TYPE OF WASTE	GENERATION RATE (lbs/person/day)	TONS/YEAR
Residential/Commercial	6.28	82,184
Industrial	6.79	88,881
Exempt	0.86	11,212
Total Waste Generation	13.93	182,277

Notes:

1. Generation totals based on recycling plus waste disposal.

Sample Calculations:

$$\text{Generation Rate} = \frac{82{,}184 * 2{,}000}{71{,}677 * 365} = 6.28 \text{ lbs/person/day}$$

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE IV-10
ESTIMATED RESIDENTIAL/COMMERCIAL WASTE STREAM COMPOSITION FOR THE REFERENCE YEAR

Waste Stream Type	Percentage of Material	Estimated Waste Composition
Paper	16.9%	13,889
Cardboard	11.6%	9,533
Wood	6.4%	5,260
Ferrous	6.8%	5,589
Non-Ferrous	2.2%	1,808
Plastic	12.4%	10,191
Glass	4.6%	3,780
Food	13.9%	11,424
Lead Acid Batteries	1.3%	1,068
White Goods	1.6%	1,315
Tires	2.1%	1,726
Textiles	5.3%	4,356
Yard Trimmings	13.4%	11,013
All Other Materials	1.5%	1,233
Total	**100.0%**	**82,184**

Notes:

1. The values entered in the "Percentage of Material" column were taken from data tables prepared for the U.S. EPA document *Municipal Solid Waste in the United States: 2010 Facts and Figures* .

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE IV-11
ESTIMATED INDUSTRIAL WASTE COMPOSITION
FOR THE REFERENCE YEAR

WASTE STREAM TYPE	Calculated	
	%	Tons
Paper	1.32%	1,174
Cardboard	3.49%	3,101
Wood	22.17%	19,705
Metals, ferrous	25.76%	22,896
Metals, nonferrous	13.80%	12,267
Plastics	1.93%	1,712
Glass	0.00%	2
Oil	8.45%	7,511
Stone/clay/sand	0.03%	26
Concrete	0.07%	59
Foundry sand	0.00%	-
Sludge	1.98%	1,761
Food	14.47%	12,865
Non-hazardous chemicals	0.27%	242
Composites	0.00%	-
Batteries	0.01%	6
Tires	4.40%	3,907
Textiles	0.07%	59
Rubber	1.64%	1,455
Other	0.15%	135
Total	**100.00%**	**88,881**

V. PLANNING PERIOD PROJECTIONS AND STRATEGIES

A. Planning Period

As specified in the Ohio EPA document *District Solid Waste Management Plan Format, version 3.0* (Format), the planning period for this Plan update shall begin January 1, 2013, the calendar year after the amended draft plan due date (October 9, 2012). The planning period extends for 15 years, thus ending December 31, 2027. However, projections in the plan were extended for two years beyond the planning period (2029) as a precautionary step in case of unforeseen obstacles in the ratification process. It is the District's intention to prepare a 15-year plan with five-year updates.

B. Population Projections

As was presented in Table IV-1, the adjusted population of the District in the reference year was 71,677 people. The Ohio Department of Development, Office of Strategic Research (OSR) projects that this population will increase over the planning period. Population projections made by OSR for 2015, 2020, 2025 and 2030 were 75,740, 76,910, 78,250 and 79,040, respectively. These population estimates are for the entire population of Hancock County.

As described in Section IV, adjustments must be made to the total county population in order to calculate the District population. Specifically, the population of the City of Fostoria and the Village of Bluffton that reside within Hancock County must be excluded from the District population. Comparing data from the 2000 Census to the 2010 Census, the population of the City of Fostoria that resides in Hancock County declined at a rate of 0.40 percent annually between 2000 and 2010. This same comparison reveals that the population of the Village of Bluffton that resides in Hancock County decreased at approximately 0.23 percent per year. To calculate the adjusted population of the District, it was assumed that these populations will continue to change at the same rates throughout the planning period. The adjusted population projections for the District are shown below.

Table V.A. Adjusted Population Projections for Hancock County SWMD

	2010*	2015	2020	2025	2030
County Population	74,782	75,740	76,910	78,250	79,040
City of Fostoria	2,932	2,874	2,817	2,761	2,706
Village of Bluffton	173	171	169	167	165
Adjusted District Population	71,677	72,695	73,924	75,322	76,168

* From Table IV-1.

Using the five-year interval population projections shown above, the District calculated every year of the planning period using straight-line interpolation, as presented in Table V-1. Over the 15-year planning period, the District's population is expected to increase from 72,288 people in 2013 to 75,660 people in 2027, a total increase of 4.7 percent.

C. Waste Generation Projections

1. Residential/Commercial Waste Generation

District population and waste generation rates based on actual disposal and recycling data are generally considered to be good parameters when determining and projecting the residential/commercial waste generation. The District's total residential and commercial solid waste generation over the 15-year planning period is expected to increase as a result of the increases projected in the District's population.

As is presented in Table V-2, solid waste generation for the District's residential/commercial sector is projected to increase from 82,885 tons in 2013 to 86,751 tons in 2027, or approximately 4.7 percent. The per capita waste generation rate for the residential/commercial sector is projected to remain constant at 6.28pounds per person per day throughout the planning period.

2. Industrial Sector

As explained in Section IV, industrial waste generation for the reference year was determined by adding together the quantities of industrial waste disposed in landfill facilities and the quantities recycled. In order to provide an estimate of industrial generation per Standard Industrial Classification (SIC) category, as shown in Table V-3, the District used the percent of total generation SIC category calculated in Table IV-3A. These percentages were multiplied by the total industrial generation (recycling plus disposal) to determine the generation for each SIC category.

With the breakdown for each SIC category established, the generation was then projected to decrease annually over the 15-year planning period. This assumed decrease in generation was based upon data and estimates provided by the Ohio Department of Job and Family Services' *2018 Ohio Job Outlook for West Central Ohio Economic Development Region 3*. Industrial manufacturing employment projections provided by ODJFS for Economic Development Region 3 (which includes Hancock County), indicate that while employment for industries overall is expected to grow by 1.5 percent between 2008 and 2018, industrial manufacturing is expected to decline by 12.7 percent during that period, or 1.27 percent per year.

The majority of the SIC categories used in this Plan update are concentrated on manufacturing. Thus, based on the data provided by ODJFS, the District predicts an annual decrease in industrial generation of 1.27% through 2018. This rate of decrease was applied equally to manufacturing across all SIC categories. As data is not available beyond 2018, the District has chosen to maintain the projected industrial waste generation for 2018 constant through the remainder of the planning period. The projections based on this methodology, provided in Table V-3, result in a decrease in industrial generation of 6.2 percent over the planning period, from 85,537 tons in 2013 to 80,242 tons in 2027.

3. Exempt Waste Generation

As was presented in Section IV, exempt waste generation was estimated at 11,212 tons for 2010 and was based on the amount of exempt waste reported as having been disposed in landfill facilities. This amount is in line with the average amount of exempt waste that has been reported as disposed in landfill facilities over the past five years, as presented below:

2006 – 15,211 tons
2007 – 5,064 tons
2008 – 13,628 tons
2009 – 10,973 tons
2010 – 11,212 tons
Avg – 11,218 tons

In the absence of a reliable indicator to predict how exempt waste generation may vary in the District in the future, the District has used the five year historical average of exempt waste disposed in landfill facilities annually. Thus, for the purposes of this Plan update, it was assumed that 11,218 tons will be generated in the District in each year of the planning period.

4. Total Waste Generation

Using the information outlined in the previous sections, Table V-4 was developed to present the projections for the total amounts of waste that will be generated within the District during the planning period. Total waste generation is expected to decrease from 179,640 tons in 2013 to 178,211 tons in 2027, an approximate decrease of 0.8 percent.

D. Projections for Waste Stream Composition

No specific trends have been identified that would result in a substantial shift in the composition of the waste streams for either the residential/commercial or industrial sectors.

E. Waste Reduction Strategies through the Planning Period

The 2001 *State Solid Waste Management Plan* established eight goals to promote waste reduction and recycling around the State of Ohio. These eight goals are as follows:

Goal #1: Ensure the availability of waste reduction, recycling, and minimization alternatives for municipal solid waste.

Goal #2: Reduce, reuse, recycle, or minimize at least 25 percent of the municipal solid waste generated and at least 66 percent of the industrial solid 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: Strategies for scrap tires, yard waste, lead-acid batteries and household hazardous waste.

Goal #6: Economic incentive analysis.

Goal #7: Market development strategy (optional).

Goal #8: Annual reporting of plan implementation.

While the State Plan encourages solid waste management districts to attempt to achieve both Goal #1 and Goal #2, solid waste management district are only required to demonstrate compliance with one of these goals. For purposes of this Plan update, the District will demonstrate compliance with Goal #1, also known as the "Access Goal." While the District is not attempting to demonstrate compliance with Goal #2, the District does provide programs and activities that will result in quantities of material being recovered that can be credited toward the District's waste reduction and recycling rates. The Plan does not provide for programs to achieve Goal #7. Thus, this Plan update addresses six of the seven goals of the State Plan.

Program Analysis

To help identify the strengths and weaknesses of existing programs and determine where new programs may be needed, the District completed a program analysis. The completed analysis is provided in Appendix H. To perform the analysis, each program implemented by the District was evaluated on the basis of three different criteria. These criteria were the Ohio EPA State Plan goals (listed above), participation, and costs. There are three rankings for each criterion, as provided below:

State Plan Goals	Participation	Costs
1 = doesn't meet	1 = low	1 = high
2 = somewhat meets	2 = good	2 = medium
3 = meets	3 = excellent	3 = low

Each program was given one of the above rankings for each of the three criteria. For instance, if a program meets one or more of the State Plan goals, a ranking score of 3 was given. The highest score that any program can achieve is a 9. If a program scores a 9, the program is providing the District with demonstration of State Plan goals, excellent participation from the residents and low cost to the District. After performing this analysis, the District has decided to maintain all existing strategies and programs throughout the planning period. These strategies and programs, as well as any planned changes, are discussed below and are categorized by the State Plan goals addressed by this Plan update.

Additionally, the residential/commercial and industrial waste reduction strategies to be implemented by the District during the planning period and the projected amount of waste to be

reduced by each strategy are listed in Tables V-5 and V-6, respectively. Some strategies do not have estimated amounts because of the difficulty of directly measuring the effect of the strategy on actual recycling amounts. In most cases, the projections are based on the assumption that recycling volumes are a function of the calculated generation. That is, as generation increases or decreases, due to projected changes in population or per capita generation, it is assumed that recycling will do the same. In addition, the District has project specific increases in recycling quantities for some existing and planned programs beyond the increase projected as a function of calculated generation. These projections are further described with each program below.

1. Residential/Commercial Waste Reduction Strategies

Goal #1: Ensure the availability of waste reduction, recycling, and minimization alternatives for municipal solid waste

Permanent Drop-Off Recycling Units

The District will continue to operate the permanent drop-off recycling units throughout the planning period. Details of this program were described in Section IV. In addition to the materials noted in Section IV, the District also began collecting glass at all drop-off location as of 2011. The District anticipates significantly expanding this program during the planning period; six new recycling roll offs will be purchased in 2012 and nine more will be purchased in 2013-2016. The new trailers will be used to replace existing units, as well as significantly expand the permanent drop-off network. To implement this expansion, existing drop-off locations that are under-performing will be permanently discontinued starting 2011. These drop-offs will be relocated to new locations that will hopefully be better utilized by the community. In addition, some existing sites will be upgraded from part-time to full-time service based on demand. It is not the intention of the District to cause any disruption of services for the existing sites that will be upgraded to full-time service. Based on current planning, by 2013 a total of 14 new full-service sites will be added, including four sites in Findlay and ten in rural locations. The most recent notable changes to the permanent drop-off recycling units are summarized below in Table V.B.

Table V.B. Summary of Changes Made to Permanent Drop-Off Recycling Units

Drop-Off	Location	Notable Changes
Drop-Off Recycling, Full Service, Rural		
Arcadia / Washington Twp	Arcadia School	New in 2011
Arlington / Madison Twp	Madison Township House	New in 2012
Jenera / Van Buren Twp	Jenera Town Park	New in 2011
McComb / Pleasant Twp	McComb Maintenance Bldg	Converted to full service 2011
Mt. Blanchard / Delaware Twp	Mt. Blanchard Water Plant	Closed in 2011
Mt. Blanchard / Delaware Twp	Central Park	New in 2012
Mt. Cory / Union Twp	Grain Elevator	New in 2012
Van Buren / Allen Twp	Ash Street & Wood Street	New in 2012
Vanlue / Amanda Township	Amanda Township House	New in 2012
Allen Township	Whirlpool Corp	New in 2012
Cass Township	Cass Township Hall	New in 2011
Portage Township	Deweyville Church	New in 2012
Portage Township	Portage Township House	New in 2012
Drop-Off Recycling, Full Service, Urban		
City of Findlay	Findlay City School	Closed in 2011
City of Findlay	First Lutheran Church	Closed in 2011
City of Findlay	St. John's Lutheran Church	Closed in 2011
City of Findlay	Chamberlin Hill	Converted to full service 2011
City of Findlay	Main Cross Parking Lot	New in 2011
City of Findlay	Blanchard Valley Co-op	New in 2011
City of Findlay	Hancock Co. Parking Lot	New in 2011

Beyond 2013, the District plans to locate a large drop-off site at the Hancock County Landfill, which will serve as a satellite donation center for Litter Landing. This location will utilize several roll-off trailers. A full-time site is also planned to be located in Delaware Township in 2014. In 2015 and 2016 the District plans to institute three new locations in each year; the locations for these sites will be considered based on demand and availability. If and when additional drop-off locations are sited, the District will include them in the appropriate annual district report.

Based upon the expansion of the Permanent Drop-Off Recycling Units, the District has projected specific increases in the quantity of recyclables to be collected via the program. Although the District does not typically weigh the materials collected at individual recycling locations, in late 2011, the District weighed the roll off boxes collected over a 2-3 week period in order to determine estimated quantities of material collected at each location. This provided the District with a basis for the projections of future recyclable receipts from the drop-off recycling program, as shown in Table V.C. These projections take into account an expectation that a new location will generate less volume in its first year than a more established location, and generally assume that each new location will generate approximately 6.5 tons in its first year and approximately 13 tons per year once established.

Table V.C. Basis for Recycling Projections: 2011-2016

Year	# Additional Drop-Offs	Estimated Drop Off Tons	Total Litter Landing Tons	% Increase at Litter Landing
2011	--	754	2,584	--
2012	7	888	2.923	13.0%
2013	1	972	3,007	2.9%
2014	1	992	3,027	0.7%
2015	3	1,070	3,105	2.6%
2016	3	1,128	3,163	1.9%

1. Litter Landing Tons provided for 2011 and 2012 reflect actual quantities processed.
2. Estimated increases in Litter Landing Tons in 2013-2016 reflect only the estimated increase in the drop-off recycling; no other increases have been projected.

Beyond 2016, the District has projected a slight increase in recycling quantities generated as a function of generation thereafter through the planning period. As all of the recyclables collected are taken to Litter Landing for processing, these increases are accounted for under the projections for Litter Landing.

Mobile Drop-Off Recycling Units

The District will continue to operate the mobile drop-off recycling units throughout the planning period. Details of this program were described in Section IV. As with the permanent recycling units, the Districts began accepting glass at all mobile recycling locations as of 2011. Where possible, the District intends to move away from the part-time units and convert part-time locations to permanent locations. By 2013, only three part-time units will be in operation. As described above, the District anticipates purchasing several new recycling roll offs through the planning period; the District will use these new trailers to replace existing mobile units and/or expand the permanent and mobile recycling drop-off programs needed. Recent changes to the mobile drop-off recycling units are summarized below in Table V.C.

Table V.D. Summary of Changes Made to Mobile Drop-Off Recycling Units

Drop-Off	Location	Notable Changes
Drop-Off Recycling, Part-Time, Rural		
Arcadia / Washington Twp	Trinity Lutheran Child Dev	Closed; new full service in 2011
Jenera / Van Buren Twp	Jenera Town Hall	Closed; new full service in 2011
McComb / Pleasant Twp	McComb Maintenance Bldg	Converted to full service in 2011
Vanlue / Amanda Twp	Vanlue High School	Closed; new full service in 2011
Van Buren / Allen Twp	Van Buren Lutheran Church	Closed; new full service in 2011
Drop-Off Recycling, Part-Time, Urban		
City of Findlay	Bigelow Hill School	Closed in 2011
City of Findlay	Lincoln School	Closed in 2011
City of Findlay	University of Findlay	Closed in 2011
City of Findlay	Chamberlin Hill	Converted to full service in 2011

As the District is moving away from the mobile drop-off units and converting most of the units to full service, the District has not projected any increase in the quantity of recyclables to be collected via this program.

Litter Landing

The District will continue to offer the donation drop-off that is located at Litter Landing for the duration of the planning period. The District will continue to evaluate the layout of the donation process at Litter Landing through the planning period. Litter Landing is further discussed below.

Curbside Recycling Program

As described in Section IV, subscription curbside recycling is offered in the City of Findlay by AE Curbside. The program is available to all households in the City of Findlay, and recently expanded to also provide services in the Villages of Van Buren, Arlington and Benton Ridge. This program is privately owned and operated, thus the District has no control over its operations, capacity, or future efforts. The District has provided information regarding the curbside service on its website and will evaluate the feasibility of further promotion of the program in an attempt to increase participation. However, participation in the program is somewhat constrained by the current capacity of AE Curbside (number of trucks, employees, etc.).

AE Curbside Service is currently the only curbside recycling service offered in the City of Findlay. The lack of curbside recycling opportunities is directly tied to the lack of centralized trash collection in the City of Findlay. Without centralized trash collection, residents contract directly for their trash collection with one of nearly 40 solid waste haulers. Many of these haulers that are capable of offering curbside recycling collection, such as Waste Management and Allied, have previously expressed to the District that without a City-wide contract, the cost for curbside recycling is prohibitive. The District will continue to work with the City of Findlay in the planning period as possible to promote AE Curbside and any other available curbside recycling services. Should the possibility of a city-wide contract become more likely in the future, new feasibility studies may be planned in order to gauge interest in a non-subscription based program.

Goal #2: Reduce and/or recycle at least 25 percent of the residential/commercial and 66 percent of the industrial waste generated

In addition to recycling performed by commercial businesses, the District offers many programs and activities that help to increase the amount of material that is creditable to the waste reduction and recycling rates, including:

- Litter Landing
- Permanent and Mobile Recycling Drop-Off Recycling Units
- HHW Collection Day and Litter Landing HHW Collection
- Electronics Collection Day and Litter Landing E-Collection
- Landfill Appliance Collection

- Tire Collection Day and Landfill Tire Collection
- Agricultural Tire Recycling Day
- Paper Shredding Day
- Christmas Tree Recycling
- Commercial & Governmental Recycling

These programs and activities, however, are not discussed extensively under this heading because they are discussed elsewhere in this section as they relate to other State Plan Goals.

Goal #3: Provide informational and technical assistance on source reduction

Public Education & Awareness

This program will continue unchanged throughout the planning period, as described in Section IV.

District Website

The District will continue to update and maintain its website, www.hancockenvironment.com, throughout the planning period, as described in Section IV.

Commercial & Governmental Technical Assistance

This program will continue unchanged throughout the planning period, as described in Section IV.

Goal #4: Provide informational and technical assistance on recycling, reuse and composting opportunities

Don't Bag It / Backyard Composting Program

This program will continue unchanged throughout the planning period, as described in Section IV.

Yard Waste Management / Composting

As described in Section IV, yard waste is managed in the District via several Class IV composting facilities located in the County. These facilities are available to all households in the District. The majority of these facilities are privately owned and operated, thus the District has no control over its operations, capacity, or future efforts. As of 2012, the locations operating in the District included:

- Bill Moyer Topsoil
- City of Findlay Broad Avenue Compost Site
- Findlay Warehousing Co.
- Performance Soils

The City of Findlay also continues to operate their Green Waste Drop Off Site free of charge to District residents, as described in Section IV, and A&E Curbside Recycling continues to offer curbside yard waste collection as part of their services. The District has added a page to its website that lists the current compost facilities operating in the County, along with their address and telephone number. The District will continue to update this page as needed through the planning period.

The Hancock County Composting Facility, which was previously operated at the County landfill, was closed as of January 2013. The facility was closed in response to the new Composting Rules that became effective April 2, 2012. The County determined that compliance with the new rules would be cost-prohibitive and completed the closure process.

Due to recent changes to the number of composting facilities available in the County, particularly the loss of the Hancock County Composting Facility, as well as the variability in the quantity of yard waste composted over the past several years, the District has based the projections of yard waste to be composted using an average of the material composted in 2008-2011, as shown below:

2008 – 1,318 tons
2009 – 5,878 tons
2010 – 3,739 tons

2011 – 6,141 tons
Avg – 4,269 tons

This average was used beginning in 2012 and was projected to increase as a function of generation thereafter through the planning period.

Public Education & Awareness

This program will continue throughout the planning period as described in Section IV and under Goal #3, above.

List of Existing Recyclers/Brokers

This program will continue unchanged throughout the planning period, as described in Section IV.

Commercial & Governmental Recycling

This program will continue unchanged throughout the planning period, as described in Section IV.

Goal #5: Develop strategies for managing scrap tires and household hazardous waste

Tire Collection Days & Landfill Collection

This program will continue throughout the planning period as described in Section IV. The District will continue to offer the collection event once a year in each year of the planning period. Additionally, the landfill will continue to collect tires from all District residents for a fee. As mentioned in Section IV, the lack of low-cost outlets for truck and tractor tires continues to be a major weakness of this program given that Hancock County is a predominantly rural county. Thus, the District is tentatively considering accepting these large as a separate "Agricultural Tire" event, beginning in 2013 (see below). Projections for recycling achieved under this program were based upon the quantities collected in 2011.

Agricultural Tire Recycling Day

The Agricultural Tire Recycling Day is a new program that the District will implement in 2013. This is a free event and is open to all Hancock County residents. The event will be held at the Hancock County Agricultural Service Center. The program will begin in 2013 and is tentatively planned to be held every three years going forward. This schedule may be adjusted based on demand. This program accepts larger agricultural tires that are not accepted during other tire recycling events. Residents are limited to four tires and must pre-register for the event. All tires turned in must be off the rim and empty for recycling. The District has projected that approximately 15 tons of tires (approximately 300 large tires) will be collected via this collection event, based upon past demand. The District has held this quantity constant for each year the event will be held throughout the planning period.

Household Hazardous Waste Collection Day

This program will continue throughout the planning period as described in Section IV. Projections for recycling achieved under this program were based upon the quantities collected in 2011.

Litter Landing HHW & Paint Collection

This program will continue to be offered annually throughout the planning period as described in Section IV. However, beginning in 2012, the types of materials accepted were expanded to include most common household hazardous wastes, including latex paint, oil based paint, aluminum paint, varnishes and stains, paint thinners, aerosols, cleaners, pesticides, flammable solids, acids and bases, oxidizers, mercury, household batteries, lead acid batteries, propane cylinders, fluorescent bulbs, antifreeze and motor oil. Based upon the expansion to the program, the District has projected that slightly more material will be collected beginning in 2012 (6 tons).

Electronics Collection Day

This program will continue throughout the planning period as described in Section IV. Quantities collected via this program have varied in recent years; the District has projected approximately 50 tons to be collected in 2012, based on an average of historical quantities.

Litter Landing E-Collection

This is a new program, which was offered for the first time in 2011. Through this program, electronics are accepted at the Litter Landing donation center during normal hours of operation (Monday – Saturday, 8:00AM-3:00PM). Accepted materials include CPUs, monitors, keyboards,, televisions, phones, printers, fax machines, scanners, hard drives, laptops, speakers, cables, VCRs, Items are collected free of charge to Hancock County residents and the program is cosponsored by Rader Environmental Services. This program will continue to be offered annually throughout the planning period. Projections for recycling achieved under this program were based upon the quantities collected in 2011.

Other Strategies

Spring Clean Up Day

This program will continue unchanged throughout the planning period, as described in Section IV.

Christmas Tree Recycling

This program will continue throughout the planning period as described in Section IV. Projections for recycling achieved under this program were based upon the quantities collected in 2011.

Adopt-a-Road

This program will continue unchanged throughout the planning period, as described in Section IV.

Litter Crew

This program will continue unchanged throughout the planning period, as described in Section IV.

Litter Landing

This program will continue throughout the planning period as described in Section IV. However, the District additionally plans to make significant renovations to Litter Landing in 2014. These renovations will include tearing down two older wooden buildings and replacing them with a larger, modern structure. The current wood structures are in disrepair; the roofs need replaced and significant repairs are necessary to portions of the buildings that have rotted. In addition to remedying these structural issues, the new storage building will provide three primary benefits:

(1) The new storage building will significantly increase under-roof storage capacity, which is currently limited. The storage building will also include office space which will eventually house the District offices.

(2) The new, larger building will allow the District to move the glass processing operations away from the parking lot. The current location of the glass crusher requires the District to handle and move glass recyclables multiple times and impedes the flow of traffic at the facility, posing a safety hazard to workers and residents who are dropping off recyclables.

(3) Loading dock improvements associated with the new building will greatly improve loading and transportation of recyclable materials from the facility. The current buildings do not have a proper, concrete loading dock; the District utilizes a portable loading dock which is cumbersome to use.

The District hopes that these improvements will allow the District to handle more recyclables via the expanded Drop-Off Recycling Program, make the facility more profitable and improve its overall appearance and functionality.

In the District's previous Plan update, construction of a new recycling facility was discussed; this second facility is no longer anticipated to be needed in the current planning period. With the

planned improvements at Litter Landing in 2014, the District anticipates that the current facility will have sufficient processing capacity for the District's recycling needs. The District does, however, anticipate establishing a "satellite" donation center at the Hancock County Landfill in order to address the space limitations of the Litter Landing donation center. This donation center is part of the planned expansion to the Permanent Drop-Off Recycling Program. The landfill donation center will basically serve as a very large drop-off, with 5-6 roll offs available for recycling materials. The District will provide updates and additional details on these changes as needed in the appropriate annual district report.

Projections of recyclables to be collected at Litter Landing were based upon the planned expansion of the Permanent Drop-Off Recycling Units, as described above. These projections do not take into account any potential increase in recyclable materials collected at the current established drop off locations, nor from the District's Commercial & Governmental Recycling Collection Program. Thus, the District feels that these projections are reasonable and conservative.

Landfill Appliance Collection

This program will continue unchanged throughout the planning period, as described in Section IV. Projections for recycling achieved under this program were based upon the quantities collected in 2011.

Paper Shredding Day

Paper Shredding Day is a one-day collection event that will be offered to District residents beginning in 2012. The event will be held at the Hancock County Agricultural Service Center in Findlay and provides a venue for proper, secure and confidential destruction and disposal of paper documents. Any clean, unbound paper documents will be accepted, limited to four boxes per vehicle. The event will be offered free of charge to all Hancock County residents and small businesses. The event is held in cooperation with the Shredding Network. The District intends to offer it annually throughout the planning period. Projections for recycling achieved under this program were based upon a conservative estimate of 10 tons to be collected in 2012.

Commercial & Governmental Recycling

This program will continue unchanged throughout the planning period, as described in Section IV. Projections for recycling achieved in the commercial sector were based upon the quantities reported via the 2010 commercial survey.

2. Industrial Waste Reduction Strategies

Goal #2: Reduce and/or recycle at least 25 percent of the residential/commercial and 66 percent of the industrial waste generated

The District anticipates that in-house waste reduction and recycling programs and activities in the industrial sector will continue to be implemented throughout the planning period. Projections for recycling achieved in the industrial sector were based upon the quantities reported via the 2010 industrial survey.

Goal #3: Provide informational and technical assistance on source reduction

Program of Industrial Recycling

This program will continue throughout the planning period as described in Section IV.

Goal #4: Provide informational and technical assistance on recycling, reuse and composting opportunities

Program of Industrial Recycling

This program will continue throughout the planning period, as described in Section IV.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE V-1
DISTRICT POPULATION PROJECTIONS

YEAR	TOTAL DISTRICT POPULATION
2010	71,677
2011	71,881
2012	72,084
2013	72,288
2014	72,491
2015	72,695
2016	72,941
2017	73,187
2018	73,432
2019	73,678
2020	73,924
2021	74,203
2022	74,483
2023	74,763
2024	75,042
2025	75,322
2026	75,491
2027	75,660
2028	75,830
2029	75,999
2030	76,168

Source of information: Based on the projected population data for years 2015, 2020, 2025 and 2030 from the the Ohio Department of Development, Office of Strategic Research

Sample Calculation for 2011 population:

72,695 - 71,677 = 1,018

1,018/5 = 203.6

2011 Population = 71,677 + 203.6 = 71,881

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE V-2
DISTRICT RESIDENTIAL/COMMERCIAL WASTE GENERATION

YEAR	TOTAL DISTRICT POPULATION	PER CAPITA GENERATION RATE (lbs/person/day)	TOTAL RESIDENTIAL/ COMMERCIAL GENERATION (TPY)
2010	71,677	6.28	82,184
2011	71,881	6.28	82,418
2012	72,084	6.28	82,651
2013	72,288	6.28	82,885
2014	72,491	6.28	83,118
2015	72,695	6.28	83,352
2016	72,941	6.28	83,633
2017	73,187	6.28	83,915
2018	73,432	6.28	84,197
2019	73,678	6.28	84,479
2020	73,924	6.28	84,761
2021	74,203	6.28	85,081
2022	74,483	6.28	85,402
2023	74,763	6.28	85,722
2024	75,042	6.28	86,043
2025	75,322	6.28	86,363
2026	75,491	6.28	86,557
2027	75,660	6.28	86,751
2028	75,830	6.28	86,946
2029	75,999	6.28	87,140

Notes:

1. Generation based on recycling plus disposal.
2. The annual per capita generation rate was held constant for the planning period. Per USEPA's *Municipal Solid Waste in the United States* , the national per capita generation rate slightly decreased from 4.5 pounds per person per day (pppd) in 2000 to 4.43 pppd in 2010. In the District, the per capita generation rate has varied from 6.62 pppd to 7.55 pppd over the previous five years (2005-2009), averaging 7.11 pppd. Given this variability, it was decided to hold the 2010 baseline per capita generation rate constant throughout the planning period.

Sample Calculations:

2010 Generation = 71,677 * 6.28 * 365 / 2,000 = 82,184 tons of residential/commercial waste generation

71,677 = District population in 2010

6.28 = lb/person/day projection based on disposal plus recycling

365 = number of days per year

2,000 = conversion from pounds to tons

2011 Per Capita Generation Rate = 6.28 lb/person/day * 1.00 = 6.28

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN UPDATE

TABLE V-3
PROJECTED INDUSTRIAL WASTE GENERATION

SIC	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
20	13,188	13,021	12,855	12,692	12,531	12,372	12,215	12,059	11,906	11,906	11,906	11,906	11,906	11,906	11,906	11,906	11,906	11,906	11,906	11,906
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	304	301	297	293	289	286	282	278	275	275	275	275	275	275	275	275	275	275	275	275
24	20,269	20,012	19,758	19,507	19,259	19,014	18,773	18,534	18,299	18,299	18,299	18,299	18,299	18,299	18,299	18,299	18,299	18,299	18,299	18,299
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	572	565	557	550	543	536	530	523	516	516	516	516	516	516	516	516	516	516	516	516
27	281	277	274	270	267	264	260	257	254	254	254	254	254	254	254	254	254	254	254	254
28	41	40	40	39	39	38	38	37	37	37	37	37	37	37	37	37	37	37	37	37
29	311	307	303	299	295	292	288	284	281	281	281	281	281	281	281	281	281	281	281	281
30	10,443	10,311	10,180	10,051	9,923	9,797	9,672	9,550	9,428	9,428	9,428	9,428	9,428	9,428	9,428	9,428	9,428	9,428	9,428	9,428
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	404	399	394	389	384	379	374	369	365	365	365	365	365	365	365	365	365	365	365	365
33	298	294	290	287	283	279	276	272	269	269	269	269	269	269	269	269	269	269	269	269
34	29,009	28,641	28,277	27,918	27,564	27,214	26,868	26,527	26,190	26,190	26,190	26,190	26,190	26,190	26,190	26,190	26,190	26,190	26,190	26,190
35	3,142	3,102	3,063	3,024	2,986	2,948	2,910	2,873	2,837	2,837	2,837	2,837	2,837	2,837	2,837	2,837	2,837	2,837	2,837	2,837
36	2,217	2,189	2,161	2,134	2,107	2,080	2,053	2,027	2,002	2,002	2,002	2,002	2,002	2,002	2,002	2,002	2,002	2,002	2,002	2,002
37	8,275	8,170	8,066	7,964	7,863	7,763	7,664	7,567	7,471	7,471	7,471	7,471	7,471	7,471	7,471	7,471	7,471	7,471	7,471	7,471
38	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
39	117	115	114	112	111	110	108	107	106	106	106	106	106	106	106	106	106	106	106	106
TOTAL TPY	88,881	87,752	86,638	85,537	84,451	83,378	82,320	81,274	80,242	80,242	80,242	80,242	80,242	80,242	80,242	80,242	80,242	80,242	80,242	80,242

Notes:

1. Waste generation projected to decrease annually by 1.27% through 2018.
2. Beyond 2018, the projected waste generation was held constant.

Sample Calculation:

2011 Waste Generation = 88,881 * -0.0127 = -1,129

88,881 - 1,129 = 87,752 tons

SIC Code 20 Waste Generation = 87,752 * 14.84% = 13,021 tons

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN UPDATE

TABLE V-4
TOTAL WASTE GENERATION FOR THE DISTRICT
DURING THE PLANNING PERIOD

YEAR	RES/COM (tons)	INDUSTRIAL (tons)	EXEMPT (tons)	TOTAL (tons)	POPULATION	GENERATION RATE (lbs/pers/day)
2010	82,184	88,881	11,212	182,277	71,677	13.93
2011	82,418	87,752	11,218	181,387	71,881	13.83
2012	82,651	86,638	11,218	180,506	72,084	13.72
2013	82,885	85,537	11,218	179,640	72,288	13.62
2014	83,118	84,451	11,218	178,787	72,491	13.51
2015	83,352	83,378	11,218	177,948	72,695	13.41
2016	83,633	82,320	11,218	177,171	72,941	13.31
2017	83,915	81,274	11,218	176,407	73,187	13.21
2018	84,197	80,242	11,218	175,656	73,432	13.11
2019	84,479	80,242	11,218	175,938	73,678	13.08
2020	84,761	80,242	11,218	176,220	73,924	13.06
2021	85,081	80,242	11,218	176,541	74,203	13.04
2022	85,402	80,242	11,218	176,861	74,483	13.01
2023	85,722	80,242	11,218	177,182	74,763	12.99
2024	86,043	80,242	11,218	177,502	75,042	12.96
2025	86,363	80,242	11,218	177,823	75,322	12.94
2026	86,557	80,242	11,218	178,017	75,491	12.92
2027	86,751	80,242	11,218	178,211	75,660	12.91
2028	86,946	80,242	11,218	178,405	75,830	12.89
2029	87,140	80,242	11,218	178,599	75,999	12.88

Notes:

1. Res/Com column from Table V-2
2. Industrial column from Table V-3
3. Population column from Table V-1

Sample Calculation:

2010 Generation Rate = (185,002 * 2,000) / (365 * 71,677)

2010 Generation Rate = 14.14 lbs/person/day

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN UPDATE

TABLE V-5
RESIDENTIAL/COMMERCIAL WASTE REDUCTION STRATEGIES

STRATEGY	MATERIAL	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
SOURCE REDUCTION STRATEGIES																					
None																					
SUBTOTAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RECYCLING STRATEGIES																					
Spring Clean-Up Day	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tire Collection Days & Landfill Collection	Scrap Tires	43	46	46	46	47	47	47	47	47	47	47	48	48	48	48	48	48	49	49	49
Agricultural Tire Recycling Day[1]	Scrap Tires	-	-	-	15	-	-	15	-	-	15	-	-	15	-	-	15	-	-	15	-
Don't Bag It/Backyard Composting Program[2]	Yard Waste	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yard Waste Management / Composting[3]	Yard Waste	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Christmas Tree Recycling	Christmas Trees	3	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
HHW Collection Day	HHW/Paint	18	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11
Litter Landing HHW & Paint Collection	HHW/Paint	27	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Electronics Collection Day	Electronics	30	73	50	50	50	50	51	51	51	51	51	51	52	52	52	52	52	52	53	53
Litter Landing E-Collection[4]	Electronics	-	13	13	13	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14
Adopt-a-Road	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Litter Crew	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Litter Landing[5]	See Table III-5	4,968	2,584	2,923	3,007	3,027	3,105	3,163	3,174	3,184	3,195	3,206	3,218	3,230	3,242	3,254	3,266	3,274	3,281	3,288	3,296
Permanent Drop-off Recycling Units[6]	See Table III-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mobile Drop-off Recycling Units[6]	See Table III-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Curbside Recycling[7]	See Table III-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Landfill Appliance Collection	Appliances	12	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11
Paper Shredding Day[8]	Paper	-	-	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11
Commercial & Governmental Recycling	See Appendix F	4,008	4,019	4,030	4,042	4,053	4,065	4,078	4,092	4,106	4,120	4,133	4,149	4,165	4,180	4,196	4,211	4,221	4,230	4,240	4,249
Recyclers/Brokers[9]	See Appendix F	1,585	1,590	1,594	1,599	1,603	1,608	1,613	1,619	1,624	1,629	1,635	1,641	1,647	1,653	1,660	1,666	1,669	1,673	1,677	1,681
SUBTOTAL		10,693	8,355	8,700	8,816	8,837	8,931	9,024	9,039	9,070	9,115	9,130	9,165	9,215	9,234	9,269	9,318	9,324	9,345	9,381	9,387
OTHER WASTE REDUCTION STRATEGIES																					
Composting Facilities[10]	Yard Waste	3,739	5,895	4,269	4,281	4,293	4,305	4,320	4,334	4,349	4,363	4,378	4,395	4,411	4,428	4,444	4,461	4,471	4,481	4,491	4,501
SUBTOTAL		3,739	5,895	4,269	4,281	4,293	4,305	4,320	4,334	4,349	4,363	4,378	4,395	4,411	4,428	4,444	4,461	4,471	4,481	4,491	4,501
GRAND TOTAL		14,432	14,250	12,969	13,097	13,130	13,237	13,344	13,374	13,419	13,479	13,508	13,560	13,626	13,662	13,713	13,779	13,795	13,826	13,872	13,888

Notes:

1. The Agricultural Tire Recycling Day will be offered for the first time in 2013 and will be offered every three years throughout the planning period. Estimated recycling for this program is based on past demand and the quanity of agricultural tires disposed at the Hancock County Landfill.
2. Quantities of material not available.
3. Quantities of material associated with the composting facilities located in the District are listed with Composting Facilities under "Other Waste Reduction Strategies."
4. The Litter Landing E-Collection was not offered in 2010; it was offered for the first time in 2011 and will be offered every year through the remainder of the planning period. Estimated recycling for this program is based on the qusntities collection in 2011.
5. See discussion in text regarding basis of projections for Litter Landing.
6. Quantities of material recovered are included in the quantities presented for Litter Landing.
7. Quantities of material recovered are included in the quantities presented for Litter Landing and Recycler/Brokers.
8. The Paper Shredding Day was not offered in 2010; it will be offered for the first time in 2012 and will be offered annually through the remainder of the planning period. Estimated recycling for this program is based on a conservative estimate of 10 tons (approx. 500 boxes of paper).
9. Quantities reported for Recycler/Brokers have been adjusted to exclude composting facilities and Litter Landing (which are reported here under separate line items).
10. See discussion in text regarding basis of projections for composting facilities.
11. Except where noted, projections are based on the assumption that recycling volumes are a function of generation (see sample calculation below); adjustments have been made where a specific decreaase or increase for a recycling program is expected.

Sample Calculation:

2012 Tire Collection = 2011 Tire Collection * (2012 Generation / 2013 Generation)

46.11 * (82,651 / 82,418) = 46.11 * 1.003 = 46.24

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN UPDATE

TABLE V-6
INDUSTRIAL WASTE REDUCTION STRATEGIES

STRATEGY	MATERIAL	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
SOURCE REDUCTION STRATEGIES																					
None																					
SUBTOTAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RECYCLING STRATEGIES																					
Industrial Recycling	See Appendix F	77,029	76,051	75,085	74,131	73,190	72,260	71,342	70,436	69,542	69,542	69,542	69,542	69,542	69,542	69,542	69,542	69,542	69,542	69,542	69,542
SUBTOTAL		77,029	76,051	75,085	74,131	73,190	72,260	71,342	70,436	69,542	69,542	69,542	69,542	69,542	69,542	69,542	69,542	69,542	69,542	69,542	69,542
OTHER WASTE REDUCTION STRATEGIES																					
None																					
SUBTOTAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL		77,029	76,051	75,085	74,131	73,190	72,260	71,342	70,436	69,542	69,542	69,542	69,542	69,542	69,542	69,542	69,542	69,542	69,542	69,542	69,542

Sample Calculations:

2013 Recycling Total = 2012 Recycling / 2012 Generation * 2013 Generation

75,085 / 86,638 *85,537 = 74,131

VI. METHODS OF MANAGEMENT: FACILITIES AND PROGRAMS TO BE USED

A. District Methods for Management of Solid Waste

Table VI-1 presents information regarding the solid waste management methods that will be used to manage the total quantities of solid and exempt wastes that are projected to be generated for each year in the 15-year planning period. Table VI-1 also presents data on 2010-2012, as all projections are based on the reference year data for 2010. Please note that the data presented for 2010 represents actual quantities of material reported as having been recycled, composted, and disposed. The amounts for all subsequent years are based upon the projections developed in Chapter V.

Table VI-2 presents data regarding the waste management methods for the residential/commercial sector in the reference year and the projections for the duration of the planning period. Table VI-3 presents the same information for the industrial sector.

B. Demonstration of Access to Capacity

1. Landfill Needs

The District's future needs for disposal capacity are predicated upon the quantities of solid waste that are projected to be generated and recycled/minimized within the District. These projections were used to calculate the aggregate quantities of solid waste that must be disposed of in solid waste facilities during the 15-year planning period.

As presented in Table VI-1, the residential/commercial and industrial generators in the District disposed of a total of 90,807 tons of solid and exempt waste in 2010. As can be seen from Table VI-1, this solid waste management plan predicts very modest increases in the amounts of waste to be disposed in landfill facilities over the course of the planning period. The District's disposal needs are projected to range from 92,389 tons in 2013 to 94,821 tons in 2027. Assuming that landfills operate for 310 days per year, the District will need access to approximately 301 tons per day of disposal capacity. This need is easily satisfied by the Hancock County Sanitary Landfill, which has an authorized maximum daily waste receipt amount of 750 tons per day. At that waste acceptance rate, the Hancock County Sanitary Landfill had 40 years of remaining disposal capacity (as of 2010).

The Hancock County Sanitary Landfill has historically accepted waste that is generated outside of the District for disposal. In 2010, the landfill accepted 49,286 tons of waste generated from sources outside of the District. Thus, the Hancock County Sanitary Landfill accepted an average of 159 tons per day of waste from sources located outside of the District. Taking this quantity into account, the Hancock County Sanitary Landfill would still have sufficient daily capacity to accept 100 percent of the waste to be disposed by the District in landfill facilities.

However, the Hancock County Sanitary Landfill has not historically accepted all of the District's waste that is disposed in landfills. While the Hancock County Sanitary Landfill is the primary facility that will be used for the District's disposal needs, other disposal facilities will likely receive varying amounts of the District's solid waste. Therefore, this Plan update presents a regional capacity analysis that relies on the landfill facilities that accepted waste generated in the District in 2010.

This regional capacity analysis is presented in Table VI-4A. Table VI-4A includes all of the landfill facilities that were identified in Chapter III as having accepted waste from the District for disposal in 2010. Although it is not possible to predict with complete certainty where waste will ultimately be disposed, this Plan update assumes that waste acceptance rates at each of the listed facilities will remain that same as in the reference year. These waste acceptance rates were

determined by calculating the percentage of total waste disposed in landfills in 2010 for each facility. These percentages were then applied to the projections, presented in Table VI-1, for the amount of waste to be disposed in landfill facilities throughout the planning period.

As can be seen in Table VI-4A, the Henry County Landfill, Sunny Farms Landfill and Celina Sanitary Landfill are projected to run out of capacity based on current waste acceptance rates after 2012, 2013 and 2020, respectively. Thus, waste previously allocated to those facilities has been reallocated to the Hancock County Sanitary Landfill beginning in 2013, 2014 and 2021, respectively.

2. Transfer

As presented in Table III-3, only 9 tons of District waste was received by transfer facilities in 2010. However, in previous years, larger amounts of waste have been received by transfer facilities, as presented in the table below.

Table VI. A. Summary of District Waste Received by Transfer Facilities 2005-2010

Year	R/C Waste (tons)	Industrial Waste (tons)	Total (tons)
2005	0.83	0	0.83
2006	2.50	0	2.50
2007	101.94	0	101.94
2008	13.95	0	13.95
2009	5.69	0	5.69
2010	8.88	0	8.88

In the absence of a reliable indicator to predict how much District waste will be received by transfer facilities in the future, the District has used the historical data for 2005-2010 to calculate an average amount of District waste received by transfer facilities annually. Thus, for the purposes of this Plan update, it was assumed that 22.3 tons of District waste will be managed by transfer facilities in each year of the planning period.

3. Recycling

For each year of the planning period, the District is projected to recover between 8,816 tons and 9,345 tons of residential/commercial material through the District's drop-off recycling program, special events, recycling programs instituted by commercial generators, and private recyclers and brokers. An additional 69,542 to 74,131 tons of industrial materials are projected to be recovered annually via recycling programs instituted by the industrial sector.

Processing of recyclables will require adequate processing capacity in recycling facilities. Existing facilities in and around the District are expected to have adequate capacity to handle all of the District's recyclables during the planning period. Recycling activities/facilities are listed in Table VI-4B.

4. Yard Waste Management

Table IV-10, which uses national waste composition data, shows that approximately 13.4 percent of the residential/commercial waste generated within the District in the reference year consisted of yard waste. Applying this percentage to total residential/commercial waste generation for 2010, the District generated approximately 11,013 tons of yard waste in 2010. Of this amount, 3,739 tons, or approximately 34 percent, were managed through available yard waste management programs.

Assuming that the residential/commercial generators in the District will continue to generate yard waste at the national rate of 13.4 percent, the District will generate between 11,107 tons and 11,625 tons of yard waste annually during the planning period. Based on the projections presented in Table VI-1, between 4,281 tons and 4,481 tons will be composted annually during the planning

period. Through promotion of the District's Don't-Bag-It campaign, the use of mulching mowers and the continued use of the composting facilities located within the District, it is anticipated that much of the yard waste projected to be generated will be reduced. For the remaining yard waste that is generated in the District, it is expected that the existing yard waste management programs and facilities, as shown in Table VI-4C, will provide sufficient capacity for the planning period. As can be seen in Table VI-4C, in the reference year yard waste was diverted to facilities that are known to have recently closed in the District, including Luke Theis and the Hancock County Landfill. Thus, yard waste previously allocated to those facilities has been reallocated to the Performance Soils and City of Findlay facilities beginning in 2011 and 2013, respectively.

C. Schedule for Facilities and Programs: New, Expansions, Closures, and Continuations

Table VI-5 presents the implementation schedule for all facilities, strategies, programs, and activities to be used by the District during the planning period.

D. Identification of Facilities

Table VI-6 lists the designated Hancock County Sanitary Landfill and several non-designated solid waste disposal facilities that are likely to receive the District's solid waste during the planning period. At this time, the District intends to utilize all existing recycling facilities and programs as stated in Section III.

E. Authorization Statement to Designate

The Board of Directors of the Hancock County Solid Waste Management District is hereby authorized to establish facility designations in accordance with Section 343.014 and other relevant provisions of the Ohio Revised Code. The Hancock County Sanitary Landfill is currently designated pursuant to Board resolutions 178-99 and 186-99, which are included in Appendix I. It is the intention of this amended solid waste management plan that the Hancock County Sanitary Landfill shall continue to be a designated facility throughout the planning period unless such designation is rescinded by the Board.

F. Waiver Process of Undesignated Facilities

The District has developed procedures for issuing a waiver to allow solid waste to flow to undesignated facilities. The District acts on all waivers requested in writing and submitted to the Policy Committee. These procedures are developed in accordance with Section 343.01(I)(2) of the ORC. The District must act on waiver request within 90 days after receipt, and must establish steps to evaluate the impact of issuance of the waiver upon:

- Projections contained in the District's approved (or ordered to be implemented) plan under Section 3734.53(A)(6) and (A)(7); and
- Implementation and financing of the District's approved (or ordered to be implemented) plan.

G. Siting Strategy for Facilities

In the previous sections, it has been demonstrated that the Hancock County Solid Waste Management District does not need any new facilities during the planning period for management of solid waste generated within the District. Thus, the District has not included a siting strategy in this Plan update.

H. Contingencies for Capacity Assurance and District Program Implementation

At this time, there is no uncertainty associated with the demonstration of access to disposal capacity (demonstration) or program implementation in the District's plan. Therefore, no contingencies have been provided in this Plan update.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

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 & PROCESSING CAPACITY REQUIRED						
				RECYCLING	TRANSFER	YARD WASTE COMPOSTING	YW LAND APPLICATION	INCINERATION	MSW COMPOSTING	LANDFILLING
				TPY	TPY	TPY	TPY	TPY	TPY	TPY
2010	182,277	0	182,277	87,722	9	3,739	0	0	0	90,807
2011	181,387	0	181,387	84,406	22	5,895	0	0	0	91,064
2012	180,506	0	180,506	83,785	22	4,269	0	0	0	92,430
2013	179,640	0	179,640	82,947	22	4,281	0	0	0	92,389
2014	178,787	0	178,787	82,027	22	4,293	0	0	0	92,445
2015	177,948	0	177,948	81,192	22	4,305	0	0	0	92,429
2016	177,171	0	177,171	80,367	22	4,320	0	0	0	92,462
2017	176,407	0	176,407	79,476	22	4,334	0	0	0	92,574
2018	175,656	0	175,656	78,612	22	4,349	0	0	0	92,674
2019	175,938	0	175,938	78,657	22	4,363	0	0	0	92,896
2020	176,220	0	176,220	78,672	22	4,378	0	0	0	93,147
2021	176,541	0	176,541	78,707	22	4,395	0	0	0	93,417
2022	176,861	0	176,861	78,756	22	4,411	0	0	0	93,671
2023	177,182	0	177,182	78,776	22	4,428	0	0	0	93,956
2024	177,502	0	177,502	78,811	22	4,444	0	0	0	94,225
2025	177,823	0	177,823	78,860	22	4,461	0	0	0	94,480
2026	178,017	0	178,017	78,866	22	4,471	0	0	0	94,658
2027	178,211	0	178,211	78,887	22	4,481	0	0	0	94,821
2028	178,405	0	178,405	78,923	22	4,491	0	0	0	94,969
2029	178,599	0	178,599	78,929	22	4,501	0	0	0	95,147
Planning Period Total Landfill Capacity (2013-2027)										1,400,243

Notes:

1. "Tons of SW Generated", "Net Tons to be Managed by SWMD", and "Landfilling" include exempt waste.
2. "Tons of SW Generated" taken from Table V-4.
3. "Recycling" taken from Tables V-5 and V-6.
4. "Transfer" based on average receipts at transfer facilities 2005-2010.
5. "Yard Waste Composting" taken from Table V-5.

Sample Calculations:

2013 Landfilled Waste = SW Generated - Recycling - Transfer - Yard Waste Composting

2013 Landfilled Waste = 179,640 tons - 82,742 tons - 4,281 tons = 92,594 tons landfilled

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VI-2
SUMMARY FOR RESIDENTAL/COMMERCIAL WASTE MANAGEMENT METHODS

YEAR	TONS GENERATED	MANAGEMENT METHOD USED & PROCESSING CAPACITY REQUIRED				
		SOURCE REDUCTION & RECYCLING	INCINERATION	COMPOSTING	LANDFILLING	ASH DISPOSAL
		TPY	TPY	TPY	TPY	TPY
2010	82,184	10,693		3,739	67,752	
2011	82,418	8,355		5,895	68,168	
2012	82,651	8,700		4,269	69,682	
2013	82,885	8,816		4,281	69,788	
2014	83,118	8,837		4,293	69,988	
2015	83,352	8,931		4,305	70,115	
2016	83,633	9,024		4,320	70,290	
2017	83,915	9,039		4,334	70,541	
2018	84,197	9,070		4,349	70,778	
2019	84,479	9,115		4,363	71,000	
2020	84,761	9,130		4,378	71,252	
2021	85,081	9,165		4,395	71,522	
2022	85,402	9,215		4,411	71,776	
2023	85,722	9,234		4,428	72,060	
2024	86,043	9,269		4,444	72,330	
2025	86,363	9,318		4,461	72,584	
2026	86,557	9,324		4,471	72,763	
2027	86,751	9,345		4,481	72,926	
2028	86,946	9,381		4,491	73,074	
2029	87,140	9,387		4,501	73,252	

Notes:

1. "Tons of SW Generated" taken from Table V-4.

2. "Source Reduction & Recycling" taken from Table V-5.

2. "Composting" taken from Table V-5.

Sample Calculations:

2013 Landfilled Waste = Tons Generated - Recycling - Yard Waste - (Incineration - Ash Disposal) = 97,938 - 27,319 - 5,911 = 64,708

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VI-3
SUMMARY FOR INDUSTRIAL WASTE MANAGEMENT METHODS

YEAR	TONS OF SW GENERATED	MANAGEMENT METHOD USED & PROCESSING CAPACITY REQUIRED				
		SOURCE REDUCTION & RECYCLING	INCINERATION	COMPOSTING	LANDFILLING	ASH DISPOSAL
		TPY	TPY	TPY	TPY	TPY
2010	88,881	77,029			11,852	
2011	87,752	76,051			11,701	
2012	86,638	75,085			11,553	
2013	85,537	74,131			11,406	
2014	84,451	73,190			11,261	
2015	83,378	72,260			11,118	
2016	82,320	71,342			10,977	
2017	81,274	70,436			10,838	
2018	80,242	69,542			10,700	
2019	80,242	69,542			10,700	
2020	80,242	69,542			10,700	
2021	80,242	69,542			10,700	
2022	80,242	69,542			10,700	
2023	80,242	69,542			10,700	
2024	80,242	69,542			10,700	
2025	80,242	69,542			10,700	
2026	80,242	69,542			10,700	
2027	80,242	69,542			10,700	
2028	80,242	69,542			10,700	
2029	80,242	69,542			10,700	

Notes:

1. "Tons of SW Generated" taken from Table V-4.
2. "Source Reduction & Recycling" taken from Table V-6.

Sample Calculations:

2013 Landfilled Waste = Tons Generated - Recycling - (Incineration - Composting - Ash Disposal) = 84,244 - 73,011 = 11,234

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VI-4A
WASTE MANAGEMENT METHOD: Landfilling

FACILITIES USED BY THE DISTRICT	Gross Airspace (cubic yards)	Capacity (years)	TONS OF SOLID WASTE MANAGED BY EACH FACILITY									
			2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Hancock County Sanitary Landfill	0	0	87,435	87,682	88,997	88,962	89,186	89,170	89,203	89,311	89,407	89,621
Henry County Landfill	804,190	10	4	4	4	0	0	0	0	0	0	0
Celina Sanitary Landfill	21,703,659	NA	1	1	1	1	1	1	1	1	1	1
Wyandot County Environmental Landfill	9,784,567	34	2,918	2,926	2,970	2,969	2,971	2,970	2,971	2,975	2,978	2,985
Evergreen Recycling & Disposal	9,453,527	83	269	270	274	274	274	274	274	274	275	275
Port Clinton Landfill	4,167,252	3	1	1	1	1	1	1	1	1	1	1
Sunny Farms Landfill	18,165,168	51	168	168	171	171	0	0	0	0	0	0
Pine Grove Regional Facility	0	0	11	11	12	12	12	12	12	12	12	12
District Totals			90,807	91,064	92,430	92,389	92,445	92,429	92,462	92,574	92,674	92,896

FACILITIES USED BY THE DISTRICT	Processing Capacity (TPY)	AMDWRL 2010 (tons)	TONS OF SOLID WASTE MANAGED BY EACH FACILITY									
			2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Hancock County Sanitary Landfill	N/A	750	89,864	90,125	90,371	90,645	90,905	91,151	91,323	91,480	91,623	91,795
Henry County Landfill	N/A	150	0	0	0	0	0	0	0	0	0	0
Celina Sanitary Landfill	N/A	499	1	0	0	0	0	0	0	0	0	0
Wyandot County Environmental Landfill	N/A	4,500	2,993	3,002	3,010	3,019	3,028	3,036	3,042	3,047	3,052	3,058
Evergreen Recycling & Disposal	N/A	7,500	276	277	278	278	279	280	280	281	281	282
Port Clinton Landfill	N/A	6,000	1	1	1	1	1	1	1	1	1	1
Sunny Farms Landfill	N/A	5,000	0	0	0	0	0	0	0	0	0	0
Pine Grove Regional Facility	N/A	5,000	12	12	12	12	12	12	12	12	12	12
District Totals			93,147	93,417	93,671	93,956	94,225	94,480	94,658	94,821	94,969	95,147

Notes:

1. Landfill capacity information taken from Ohio EPA's *2010 Ohio Solid Waste Facility Data Tables and Figures* , Table 13. Landfill Capacity and Daily Waste Receipt Amounts 2010.

2. Amount to be landfilled at each facility based on percentage of waste accepted in 2010 and required landfilling capacity projected in Table VI-1.

Sample Calculations:

2010 Hancock County Sanitary Landfill Waste = 96.29% * 90,842 tons = 87,468 tons

2011 Hancock County Sanitary Landfill Waste = (87,468 tons / 90,842 tons) * 87,0307 tons = 83,798 tons

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VI-4B
WASTE MANAGEMENT METHOD: Recycling

FACILITIES USED BY THE DISTRICT	Processing Capacity (TPY)	TONS OF SOLID WASTE MANAGED BY EACH FACILITY									
		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Tire Collection Days & Landfill Collection	N/A	43	46	46	46	47	47	47	47	47	47
Agricultural Tire Recycling Day	N/A	-	-	-	15	-	-	15	-	-	15
Paper Shredding Day	N/A	-	-	10	10	10	10	10	10	10	10
Yard Waste Management / Composting *	N/A	-	-	-	-	-	-	-	-	-	-
Christmas Tree Recycling	N/A	3	8	8	8	8	8	8	8	8	8
HHW Collection Day	N/A	18	9	10	10	10	10	10	10	10	10
Litter Landing HHW & Paint Collection	N/A	27	5	6	6	6	6	6	6	6	6
Electronics Collection Day	N/A	30	73	50	50	50	50	51	51	51	51
Litter Landing E-Collection	N/A	-	13	13	13	13	13	13	13	13	13
Litter Landing	N/A	4,968	2,584	2,923	3,007	3,027	3,105	3,163	3,174	3,184	3,195
Landfill Appliance Collection	N/A	12	9	10	10	10	10	10	10	10	10
Com/Gov/Org Recycling	N/A	4,008	4,019	4,030	4,042	4,053	4,065	4,078	4,092	4,106	4,120
Industrial Recycling	N/A	77,029	76,051	75,085	74,131	73,190	72,260	71,342	70,436	69,542	69,542
Recyclers/Brokers	N/A	1,585	1,590	1,594	1,599	1,603	1,608	1,613	1,619	1,624	1,629
TOTAL		87,722	84,406	83,785	82,947	82,027	81,192	80,367	79,476	78,612	78,657

FACILITIES USED BY THE DISTRICT	Processing Capacity (TPY)	TONS OF SOLID WASTE MANAGED BY EACH FACILITY									
		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Tire Collection Days & Landfill Collection	N/A	47	48	48	48	48	48	48	49	49	49
Agricultural Tire Recycling Day	N/A	-	-	15	-	-	15	-	-	15	-
Paper Shredding Day	N/A	10	10	10	10	10	10	10	10	11	11
Yard Waste Management / Composting *	N/A	-	-	-	-	-	-	-	-	-	-
Christmas Tree Recycling	N/A	8	8	8	8	8	8	8	8	8	8
HHW Collection Day	N/A	10	10	10	10	10	10	10	10	11	11
Litter Landing HHW & Paint Collection	N/A	6	6	6	6	6	6	6	6	6	6
Electronics Collection Day	N/A	51	51	52	52	52	52	52	52	53	53
Litter Landing E-Collection	N/A	13	13	13	13	14	14	14	14	14	14
Litter Landing	N/A	3,206	3,218	3,230	3,242	3,254	3,266	3,274	3,281	3,288	3,296
Landfill Appliance Collection	N/A	10	10	10	10	10	10	10	10	11	11
Com/Gov/Org Recycling	N/A	4,133	4,149	4,165	4,180	4,196	4,211	4,221	4,230	4,240	4,249
Industrial Recycling	N/A	69,542	69,542	69,542	69,542	69,542	69,542	69,542	69,542	69,542	69,542
Recyclers/Brokers	N/A	1,635	1,641	1,647	1,653	1,660	1,666	1,669	1,673	1,677	1,681
TOTAL		78,672	78,707	78,756	78,776	78,811	78,860	78,866	78,887	78,923	78,929

Notes:

* Tonnage from Yard Waste Management / Composting is not included in this table. Quantities from composting are attributed to the composting facilities listed under the Composting Waste Management Method table.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VI-4C
WASTE MANAGEMENT METHOD: Composting

FACILITIES USED BY THE DISTRICT	Processing Capacity (TPY)	TONS OF SOLID WASTE MANAGED BY EACH FACILITY									
		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Hancock County Landfill		164	259	188	0	0	0	0	0	0	0
Bill Moyer Topsoil		346	545	395	396	397	398	400	401	402	404
City of Findlay Broad Ave Compost		3,026	4,770	3,455	3,653	3,663	3,673	3,686	3,698	3,710	3,723
Luke Theis		10	0	0	0	0	0	0	0	0	0
Findlay Warehousing Co Inc		193	304	220	221	222	222	223	224	224	225
Performance Soils		0	16	11	11	11	12	12	12	12	12
TOTAL		3,739	5,895	4,269	4,281	4,293	4,305	4,320	4,334	4,349	4,363

FACILITIES USED BY THE DISTRICT	Processing Capacity (TPY)	TONS OF SOLID WASTE MANAGED BY EACH FACILITY									
		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Hancock County Landfill		0	0	0	0	0	0	0	0	0	0
Bill Moyer Topsoil		405	407	408	410	411	413	414	415	416	416
City of Findlay Broad Ave Compost		3,735	3,749	3,763	3,778	3,792	3,806	3,814	3,823	3,831	3,831
Luke Theis		0	0	0	0	0	0	0	0	0	0
Findlay Warehousing Co Inc		226	227	228	229	229	230	231	231	232	232
Performance Soils		12	12	12	12	12	12	12	12	12	12
TOTAL		4,378	4,395	4,411	4,428	4,444	4,461	4,471	4,481	4,491	4,491

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VI-5
IMPLEMENTATION SCHEDULE FOR FACILITIES, STRATEGIES, PROGRAMS AND ACTIVITIES: DATES AND DESCRIPTION

NAME OF FACILITY, STRATEGY, PROGRAM, OR ACTIVITY	LOCATION	DESCRIPTION OF PROGRAM OR FACILITY	APPROXIMATE DATE WHEN	
			OPERATIONS BEGIN	OPERATIONS CEASE
Programs to Satisfy Goal #1 - Availability of Reduction/Recycling Opportunities for Residential/Commercial Waste				
Drop-Off Recycling, Full-Service, Rural				
Village of Arcadia / Washington Twp	Arcadia School	Full-service, rural drop-off	2011	Ongoing
Village of Arlington / Madison Twp	Madison Township House	Full-service, rural drop-off	2012	Ongoing
Village of Benton Ridge / Blanchard Twp	Benton Ridge Community Park	Full-service, rural drop-off	2001 or 2002	Ongoing
Village of Jenera / Van Buren Twp	Jenera Town Hall	Full-service, rural drop-off	2011	Ongoing
Village of McComb / Pleasant Twp	McComb Village Maintenance Building	Full-service, rural drop-off	2011	Ongoing
Village of Mt. Blanchard / Delaware Twp	Mt. Blanchard Central Park	Full-service, rural drop-off	2012	Ongoing
Village of Mt. Cory / Union Twp	Mr. Cory Grain Elevator	Full-service, rural drop-off	2012	Ongoing
Village of Rawson / Union Twp	Rawson Park	Full-service, rural drop-off	2001 or 2002	Ongoing
Village of Van Buren / Allen Twp	Ash Street & Wood Street	Full-service, rural drop-off	2012	Ongoing
Village of Vanlue / Amanda Twp	Amanda Township House	Full-service, rural drop-off	2012	Ongoing
Allen Township	Whirlpool Corp	Full-service, rural drop-off	2012	Ongoing
Allen Township	Hancock County Landfill	Full-service, rural drop-off	2013	Ongoing
Biglick Township	West Independence United Methodist Church	Full-service, rural drop-off	2001 or 2002	Ongoing
Biglick Township	Biglick Township Hall	Full-service, rural drop-off	2002	Ongoing
Cass Township	Cass Township Hall	Full-service, rural drop-off	2011	Ongoing
Delaware Township	Riverdale School	Full-service, rural drop-off	2014	Ongoing
Eagle Township	Camp Berry Boy Scout Reservation	Full-service, rural drop-off	2001 or 2002	Ongoing
Orange Township	Orange Township House	Full-service, rural drop-off	2001 or 2002	Ongoing
Portage Township	Deweyville Church	Full-service, rural drop-off	2012	Ongoing
Portage Township	Portage Township House	Full-service, rural drop-off	2012	Ongoing
Drop-Off Recycling, Full-Service, Urban				
City of Findlay	Litter Landing	Full-service, urban drop-off	1983	Ongoing
City of Findlay	Chamberlin Hill	Full-service, urban drop-off	2011	Ongoing
City of Findlay	Main Cross Parking Lot	Full-service, urban drop-off	2011	Ongoing
City of Findlay	Blanchard Valley Co-op	Full-service, urban drop-off	2011	Ongoing
City of Findlay	Hancock County Parking Lot	Full-service, urban drop-off	2011	Ongoing
Liberty Township	Hancock Co. Educational Service Center	Full-service, urban drop-off	2001 or 2002	Ongoing

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VI-5
IMPLEMENTATION SCHEDULE FOR FACILITIES, STRATEGIES, PROGRAMS AND ACTIVITIES: DATES AND DESCRIPTION

NAME OF FACILITY, STRATEGY, PROGRAM, OR ACTIVITY	LOCATION	DESCRIPTION OF PROGRAM OR FACILITY	APPROXIMATE DATE WHEN	
			OPERATIONS BEGIN	OPERATIONS CEASE
Drop-Off Recycling, Part-Time, Rural				
Village of Arlington / Madison Twp	Good Hope Lutheran Church	Part-time, rural drop-off	2007	Ongoing
Drop-Off Recycling, Part-Time, Urban				
City of Findlay	First Presbyterian Church	Part-time, urban drop-off	2000	Ongoing
City of Findlay	Trinity Lutheran Church	Part-time, urban drop-off	2000	Ongoing
Subscription Curbside Recycling				
City of Findlay	City of Findlay	Privately owned and operated curbside recycling program.	2004	Ongoing
Programs to Satisfy Goals #3 & 4 - Provide Informational and Technical Assistance on Source Reduction, Recycling, Reuse, and Composting Opportunities				
Don't Bag It / Backyard Composting Program	NA	The District will promote this program and distribute literature.	1993	Ongoing
Yard Waste Management / Composting	NA	The District will promote the compost facilities available in the District in its literature and on the website.	2012	Ongoing
List of Existing Recyclers/Brokers	NA	The District will publish annually in a brochures and/or on the website.	1992	Ongoing
Public Education & Awareness	NA	The District will provide education to schools and adult groups.	NA	Ongoing
District Website	NA	The District will update and maintain its website	2006	Ongoing
Commercial & Governmental Technical Assistance	Entire District	The District will provide technical assistance as needed; survey will be conducted at least every 3 years.	1983	Ongoing
Commercial & Governmental Recycling	Entire District	The District will continue to offer collection of recyclables to commercial and governmental entities; survey of commercial sector will be conducted at least every 3 years.	1983	Ongoing
Program of Industrial Recycling	Entire District	The District will provide technical assistance as needed; survey will be conducted at least every 3 years.	1994	Ongoing
Programs to Satisfy Goal #5 - Develop Strategies for Managing Tires, Batteries and Household Hazardous Waste				
Electronics Collection Day	NA	The District will provide this collection event annually.	2004	Ongoing
Litter Landing E-Collection	Litter Landing	The District will provide this program annually	2011	Ongoing
Household Hazardous Waste Collection Day	NA	The District will provide this collection event annually.	1996	Ongoing
Litter Landing HHW & Paint Collection	Litter Landing	The District will provide this program May-Nov annually	2010	Ongoing
Tire Collection Days & Landfill Collection	NA	The District will provide this collection event annually; landfill collection will take place year-round.	1994	Ongoing
Agricultural Tire Recycling Day	NA	The District will provide this event every three years.	2013	Ongoing; every three years

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VI-5
IMPLEMENTATION SCHEDULE FOR FACILITIES, STRATEGIES, PROGRAMS AND ACTIVITIES: DATES AND DESCRIPTION

NAME OF FACILITY, STRATEGY, PROGRAM, OR ACTIVITY	LOCATION	DESCRIPTION OF PROGRAM OR FACILITY	APPROXIMATE DATE WHEN	
			OPERATIONS BEGIN	OPERATIONS CEASE
Programs to Satisfy Goal #8 - Annual Reporting of Plan Implementation				
Submission of the Annual District Report	NA	The District will submit the ADR annually to Ohio EPA.	Existing	Ongoing
Other Programs				
Adopt-a-Road	NA	The District will continue to promote and oversee this program.	1994	Ongoing
Christmas Tree Recycling	NA	The District will provide this collection annually.	1993	Ongoing
Landfill Appliance Collection	NA	Collection of appliances will take place year-round at the landfill	1998	Ongoing
Litter Crew	NA	The District will contiue to operate this program	1990	Ongoing
Litter Landing	NA	The District will continue to operate the drop-off and processing center.	1983	Ongoing
Paper Shredding Day	NA	The District will provide this collection event annually.	2012	Ongoing
Spring Clean-Up Day	NA	The District will continue to promote and oversee this event.	1983	Ongoing
Yard Waste Facilities				
Bill Moyer Topsoil	West Vance St. Rawson, OH 45881	This District will survey this entity at least every three years.	Existing	Ongoing
City of Findlay Broad Ave. Compost	501 Broad Ave. Findlay, OH 45840	This District will survey this entity at least every three years.	Existing	Ongoing
Findlay Warehousing Co. Inc.	8556 County Road 140 Findlay, OH 45841	This District will survey this entity at least every three years.	Existing	Ongoing
Performance Soils	Township Road 251 Findlay, OH 45840	This District will survey this entity at least every three years.	Existing	Ongoing

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VI-6
FACILITIES IDENTIFIED AND CURRENT DESIGNATIONS

FACILITIES IDENTIFIED		FACILITIES CURRENTLY DESIGNATED	
FACILITY NAME	LOCATION	FACILITY NAME	LOCATION
Wyandot County Environmental Landfill	Wyandot Co.	Hancock County Sanitary Landfill	Hancock Co.
Evergreen Recycling & Disposal	Wood Co.		
Port Clinton Landfill	Ottawa Co.		
Pine Grove Regional Facility	Fairfield Co.		

VII. MEASUREMENT OF PROGRESS TOWARD WASTE REDUCTION GOALS

A. District Will Comply with Goals Identified

The 2001 *State Solid Waste Management Plan* (State Plan) mandates that all solid waste management districts develop and implement programs to meet the waste minimization and recycling goals that are established in that document. The goals of the State Plan, and the programs, activities and strategies that the District will implement throughout the planning period to meet those goals were presented in Section V.

The State Plan requires that solid waste management districts demonstrate compliance with one of two overall goals, Goal #1 and Goal #2. These goals, as they apply to solid waste management districts, are summarized below:

Goal #1: Ensure that residential and commercial generators have access to reduction, recycling and waste minimization alternatives. The solid waste management district must ensure at least 90 percent of the residential sector population of the solid waste management district has access to recycling opportunities.

Goal #2: The solid waste management district must demonstrate that 1) 25 percent of waste generated the residential/commercial sector is reduced/reused/recycled and 2) 66 percent of the waste generated by the industrial section is reduced/reused/recycled.

This Plan update will demonstrate compliance with Goal #1. As noted previously, while the District is not demonstrating compliance with Goal #2, the District does provide programs and activities that will result in quantities of material being recovered that can be credited toward the District's waste reduction and recycling rates, as described herein.

B. Demonstration of Compliance with Goal #1

Solid waste management districts that opt to demonstrate compliance with Goal #1 must provide the following in their solid waste management plans:

- A demonstration that waste reduction, recycling, or minimization programs or activities must be in existence or be scheduled to be available for a minimum of seven of eleven materials that are highly amenable to recycling.
- A demonstration that residential sector generators and commercial sector generators each have access to recycling or other alternative waste management options for a minimum of four designated materials.
- A demonstration that the solid waste management district will have programs in place to encourage residents and commercial entities to participate in the recycling and alternative waste management opportunities being used to demonstrate compliance with Goal #1.

As shown in Table VII-1, the four materials designated to demonstrate compliance with Goal #1 in the residential sector are corrugated cardboard, newspaper, plastic containers and aluminum cans. The four materials designated to demonstrate compliance in the commercial/institutional sector are cardboard, office paper, glass and steel containers.

1. Demonstration of Compliance with Residential Standards

a) Service Area

The residential service area for the District encompasses all of Hancock County with the exception of those portions of the City of Fostoria and the Village of Bluffton that reside in Hancock County. The population of the District in 2010 was 71,677 people.

b) Access

For the residential sector, access is defined as the availability of waste reduction and recycling opportunities to at least 90 percent of the residential population. These opportunities can consist of non-subscription and subscription curbside recycling services, drop-off recycling programs, and materials recovery facilities.

In order to determine the percentage of the residential population that has access to recycling opportunities, the Ohio EPA *District Solid Waste Management Plan Format, version 3.0* (Format) provides a formula that assigns standard population credits for each of the types of recycling services available. These credits are as follows:

- Non-subscription curbside recycling service: 100 percent of the residents that are provided with a non-subscription curbside recycling service are considered as having access to that service.
- Subscription curbside recycling service: 25 percent of the residents to whom this service is provided are considered as having access to the service.
- Full-service, urban drop-off: 5,000 residents are assumed to have access to this type of drop-off facility.
- Part-time, urban drop-off: 2,500 residents are assumed to have access to this type of drop-off facility.
- Full-service, rural drop-off: 2,500 residents are assumed to have access to this type of drop-off facility.
- Part-time, rural drop-off: 2,500 residents are assumed to have access to this type of drop-off facility.

Table VII-2 presents the opportunities that are being used to demonstrate compliance with the access standard for the residential standard along with the associated population credits for each opportunity.

Subscription Curbside:

In the reference year, there was one subscription recycling program in operation in the District in the City of Findlay. This program is operated by AE Curbside Recycling Service. The program offers weekly collection of commingled paper, cardboard, aluminum cans, steel cans, glass, and plastic containers.

Full-Service Drop-Offs:

In 2010, the District operated 12 full-service drops. Of these drop-offs, five serviced urban locations in the City of Findlay and Liberty Township and seven serviced rural communities. All 12 drop-offs were available to the public for over 40 hours per week and provide for the collection of cardboard, newspaper, magazines, aluminum cans, steel cans, plastic containers and glass. By 2013, the network of full-service drop-offs will be expanded to include 24 locations, six in the City of Findlay and 18 in rural communities.

Part-Time Drop-Offs:

In the reference year, the District operated a system of mobile recycling trailers providing drop-off recycling service to 12 locations, six in the City of Findlay and six in rural communities. The

District provides each location with a trailer at a regularly scheduled time each month. The length of time that the trailer is available varies from location to location. The materials collected at each of these drop-off locations include cardboard, newspaper, magazines, aluminum cans, steel cans, plastic containers and glass. By 2013, the District will reduce the number of part-time locations to three, as several of the part-time locations are to be converted to full-time locations in 2011 and 2012 (as described in Section V).

c) Participation

Education and Awareness

The availability of the mobile and permanent drop-off recycling units is promoted through District educational materials and on the District website. Additionally, as was discussed in Section IV, the communities that host the part-time drop-off recycling units are required to promote the availability of those units. The District's education and awareness programs are discussed in full in Section IV and Section V.

Financial Incentives

The District does not currently have a strategy in place for promoting financial incentives to encourage increased recycling and/or waste reduction. Thus, per Ohio Administrative Code 3745-27-90(E)(1), the District has evaluated the feasibility of developing and implementing such a strategy.

Per Ohio EPA guidance, financial incentives should be designed to increase participation in the waste reduction and recycling programs that are used to demonstrate access. Options for financial incentives may include mechanisms that increase the relative cost of disposal, such as volume-based collection rates, or reduce the cost of recycling.

Volume-based collection rates, often called pay-as-you-throw (PAYT) programs, are designed to increase recycling rates by charging residents for the collection of solid waste based on the amount they throw away, rather than a fixed fee. While PAYT has its benefits, there are significant barriers to be overcome in order to implement a PAYT program in the District. Specifically, there are nearly 40 haulers operating in the District. These haulers do not operate under contracts with the municipalities or townships, but rather contract with individual households. Thus, it would be very difficult to gain support from waste haulers to implement a PAYT program. Additionally, of these haulers, only one currently offers curbside recycling, an important component of successful PAYT programs. Thus, it seems unlikely at this time that PAYT would be viable incentive for the District, unless local municipalities move to contracted waste hauling service.

Consequently, the District's evaluation focused on options that would decrease the cost of recycling to residents in order to increase participation in the District's three available recycling programs: curbside recycling, permanent (full-service) drop-offs, and mobile (part-time) drop-offs. Options considered included curbside recycling to replace drop-off service, offering rebates to residents who recycle, and relocating and improving drop-offs to make them more convenient to District residents.

It was determined that the first two of these options, curbside recycling and recycling rebates, were not financially feasible under the projected budget for the planning period. Curbside recycling, specifically in the City of Findlay, has been previously evaluated via the Curbside Recycling Feasibility Study submitted to Ohio EPA in May 2005. This study found that the potential annual cost of a non-subscription curbside recycling program in Findlay would be approximately $1 million to $1.5 million, or approximately $5 to $8 per household per month. The option of recycling rebates would also be prohibitively expensive and, moreover, difficult to administer with current District staff. The current system of drop-off recycling and decentralized waste collection would make tracking the recycling of residents difficult if not impossible. Without such tracking, it would not be feasible to offer a rebate system.

The final option considered by the District was the relocation and improvement of recycling drop-offs in order to make the drop-off system more convenient to District residents. This strategy is

feasible for implementation in the District and, in fact, has been included in the District's programs for the planning period. Specifically, in 2010 the District offered a network of 12 permanent full-time drop-offs and 12 part-time mobile drop-offs; in the reference year 96% of the District's population lived in a community that had at least one recycling drop-off. As part of this Plan update, the District is significantly expanding the full-time drop-off locations. By 2013, the first year of the planning period, the District will offer a total of 24 full-time drop-off locations and 3 part-time drop-offs, with more to be implemented in 2014 and beyond. The availability of more permanent full-time locations will be more convenient for District residents and represents a financial investment of approximately $370,000 over the 15-year planning period.

The feasibility of additional financial incentives will continue to be monitored and evaluated by District staff over the planning period. If additional strategies are deemed feasible and implemented, the District will provide information on those activities in the appropriate annual district report.

2. Demonstration of Compliance with Commercial/Institutional Standard

a) Service Area

The commercial/institutional service area for the District encompasses all of Hancock County with the exception of those portions of the City of Fostoria and the Village of Bluffton that fall within the boundaries of Hancock County.

b) Access

The commercial/institutional sector has access to all of the above-mentioned drop-off locations and permanent modular units located throughout the District. In addition, the District offers collection and transport of recyclable to Litter Landing to approximately 40 businesses and institutions. The Litter Landing location handles the four designated materials for the commercial/institutional sector of cardboard, office paper, glass and steel containers. In addition, AE Curbside Recycling Service offers commercial recycling service, providing collection of commingled plastics, glass, paper, steel cans, aluminum cans, and cardboard. Finally, several buyback and recyclers are available in the District to this sector.

c) Participation

As was discussed in Section IV, the District provides information to businesses and organizations of opportunities to recycle via newsletters and other literature. Thus, local business owners are made available of the availability of Litter Landing and the other recycling opportunities.

C. Calculation of Goal #2, the Waste Reduction Rate (WRR)

The objective of Goal #2 is to demonstrate that at least 25% of the residential/commercial waste generated is recycled/reused/minimized and that at least 66% of the industrial waste generated is recycled/reused/minimized.

The Format provides the following formula for determining the waste reduction and recycling rates for both the residential/commercial and industrial sectors:

It is first necessary to calculate the tons of waste reduction (TWR)

$$\mathbf{TWR_i = R_i + (C_i - NC_i) + (I_i - A_i) + RA_i}$$

Where:

TWR_i	=	Tons of waste reduction for year i
R_i	=	Tons of waste source reduced and recycled in year i
C_i	=	Tons of waste composted in year i
NC_i	=	Tons of non-compostables delivered for composting, separated for landfill disposal in year i

I_i = Tons of waste incinerated in year i
A_i = Tons of incinerator ash plus bypass waste in year i
RA_i = Tons of recycled incinerator ash in year i

Next, it is necessary to calculate the estimated generation based on the amount of materials disposed in landfills and the amount of material reduced (EGDWR):

$$\mathbf{EGDWR_i = TWR_i + DL_i}$$

Where:

$EGDWR_i$ = Estimated generation based upon disposal plus waste reduction in year i
DL_i = Tons of waste disposed in sanitary landfills in year i

The final step is to calculate the waste reduction and recycling rate (WRR):

$$\mathbf{WRR_i = TWR_i / EGDWR_i * 100}$$

The calculations for the residential/commercial sector and industrial sector waste reduction and recycling rates are presented below:

Residential/Commercial Waste Reduction and Recycling Rate:

R_{2010} = 10,693 tons
C_{2010} = 3,739 tons
NC_{2010} = 0 tons
I_{2010} = 0 tons
A_{2010} = 0 tons
RA_{2010} = 0 tons
TWR_{2010} = 10,693 tons + 3,739 tons = 14,432 tons
DL_{2010} = 67,752 tons
$EGDWR_{2010}$ = 14,432 tons + 67,752 tons = 82,184 tons
WRR_{2010} = 14,432 tons / 82,184 tons * 100 = **17.6%**

The amount of waste reduction per capita per day (PCWR) is calculated as follows:

$$\mathbf{PCWR_i = (TWR_i * 2000\ lbs) / (P_i * 365\ days)}$$

Where:

$PCWR_i$ = Per capita waste reduction rate in pounds per capita per day in year i
P_i = District population in year i

Thus, for 2010, the per capita waste reduction rate for the residential/commercial sector is as follows:

$PCWR_{2010}$ = (14,432 tons * 2000 lbs) / (71,677 * 365 days)
= **1.10 lbs/person/day**

Industrial Waste Reduction and Recycling Rate:

R_{2010} = 77,029 tons
C_{2010} = 0 tons
NC_{2010} = 0 tons
I_{2010} = 0 tons
A_{2010} = 0 tons
RA_{2010} = 0 tons
TWR_{2010} = 77,029 tons
DL_{2010} = 11,852 tons
$EGDWR_{2010}$ = 77,029 tons + 11,852 tons = 88,881 tons
WRR_{2010} = 77,029 tons / 88,881 tons * 100 = **86.7%**

Thus, for 2010, the per capita waste reduction rate for the industrial sector is as follows:

$PCWR_{2010}$ = (77,029 tons * 2000 lbs) / (71,677 * 365 days)

= **5.89 lbs/person/day**

Total Waste Reduction and Recycling Rate:

R_{2010} = 87,722 tons
C_{2010} = 3,739 tons
NC_{2010} = 0 tons
I_{2010} = 0 tons
A_{2010} = 0 tons
RA_{2010} = 0 tons
TWR_{2010} = 87,722 tons + 3,739 tons = 91,461 tons
DL_{2010} = 79,604 tons
$EGDWR_{2010}$ = 91,461 tons + 79,604 tons = 171,065 tons
WRR_{2010} = 91,461 tons / 171,065 tons * 100 = **53.5%**

Thus, for 2010, the per capita waste reduction rate for total waste generated is as follows:

$PCWR_{2010}$ = (91,461 tons * 2000 lbs) / (71,677 * 365 days)
= **6.99 lbs/person/day**

As the District has chosen to demonstrate compliance with Goal #1, and has demonstrated that it was unable to reduce and recycle at least 25 percent of its municipal solid waste stream in the reference year, the District has established a target waste reduction rate for the residential/commercial sector as required by the Plan Format. The District has established a target waste reduction rate of 18 percent. This equates to an increase in the total residential/commercial waste reduction of approximately 2,500 tons.

The District hopes that with the expansion of the recycling drop-off program and the planned improvements at Litter Landing and expansion of the District's drop-off recycling program, this target waste reduction rate will be achievable. Moreover, the District believes that there is a significant portion of the residential/commercial recycling that is not being captured by District surveying efforts. In the reference year, there were several recyclers and large commercial entities that either did not respond to the survey, or were unable to provide measurable data considered "creditable" by Ohio EPA. Capturing the recycling efforts of these entities within the District will likely allow the District to report several thousand additional tons of residential/commercial recycling, which will result in a significant increase in the District's reported waste reduction rate. The District will target several of the non-responsive recyclers and commercial entities and work with them to improve data collection in the planning period.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VII-1
MATERIALS USED TO DEMONSTRATE COMPLIANCE WITH GOAL #1

Eleven Materials Highly Amenable to Recycling, etc.	Four Materials Selected for Residential Sector	Four Materials Selected for Commercial/Institutional Sector	Number of Times Material is Selected
Corrugated cardboard	**X**	**X**	**2**
Office Paper		**X**	**1**
Newspaper	**X**		**1**
Glass Containers[1]		**X**	**1**
Steel Containers[1]		**X**	**1**
Aluminum Containers[1]	**X**		**1**
Plastic Containers[1]	**X**		**1**
Wood packaging			
Lead-acid batteries			
Major appliances			
Yard wastes			
Totals	**4**	**4**	**8**

[1] Includes food and beverage containers only.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VII-2
CALCULATION OF ACCESS FOR RESIDENTIAL SECTOR:
HANCOCK COUNTY SERVICE AREA

Program	Reference Year (2010)		Projected Access (2013) First Year of Planning Period		Projected Access (2027) Last Year of Planning Period	
	Population w/Access [1]	Access Credit	Population w/Access [3]	Access Credit	Population w/Access [3]	Access Credit
Non-subscription Curbside:						
None	-	-	-	-	-	-
Subscription Curbside:						
City of Findlay [4]	41,202	10,301	-	-	-	-
Full Service Drop-Off (rural area):						
Village of Arcadia / Washington Twp	-	-	1,520	2,500	1,584	2,500
Village of Arlington / Madison Twp	-	-	2,317	2,500	2,415	2,500
Village of Benton Ridge / Blanchard Twp	1,123	2,500	1,132	2,500	1,180	2,500
Village of Jenera / Van Buren Twp	-	-	3,654	2,500	3,809	2,500
Village of McComb / Pleasant Twp	-	-	2,490	2,500	2,596	2,500
Village of Mt. Blanchard / Delaware Twp	1,285	2,500	1,295	2,500	1,350	2,500
Village of Mt. Cory / Union Twp	-	-	1,222	2,500	1,274	2,500
Village of Rawson / Union Twp	1,579	2,500	1,591	2,500	1,659	2,500
Village of Van Buren / Allen Twp	-	-	2,552	2,500	2,661	2,500
Village of Vanlue / Amanda Twp	-	-	1,032	2,500	1,076	2,500
Allen Township (Whirlpool)	-	-	2,222	2,500	2,317	2,500
Allen Township (Hancock Co. Landfill)	-	-	-	-	2,317	2,501
Biglick Township (WIUM Church)	1,106	2,500	1,115	2,500	1,162	2,500
Biglick Township (Township Hall)	1,106	2,500	1,115	2,500	1,162	2,500
Cass Township	-	-	1,001	2,500	1,043	2,500
Delaware Township	-	-	-	-	833	2,500
Eagle Township	1,084	2,500	1,092	2,500	1,139	2,500
Orange Township	1,175	2,500	1,184	2,500	1,234	2,500
Portage Township (Deweyville Church)	-	-	697	2,500	727	2,500
Portage Township (Township Hall)	-	-	697	2,500	727	2,500
Full Service Drop-Off (urban area):						
City of Findlay (City School)	41,202	5,000	-	-	-	-
City of Findlay (First Lutheran)	41,202	5,000	-	-	-	-
City of Findlay (St. John's Lutheran)	41,202	5,000	-	-	-	-
City of Findlay (Litter Landing)	41,202	5,000	41,519	5,000	43,287	5,000
City of Findlay (Chamberlin Hill)	-	-	41,519	5,000	43,287	5,000
City of Findlay (Main Cross Lot)	-	-	41,519	5,000	43,287	5,000
City of Findlay (Blanchard Valley Co-op)	-	-	41,519	5,000	43,287	5,000
City of Findlay (Hancock Co Lot)	-	-	41,519	5,000	43,287	5,000
Liberty Township (Hancock Ed Svc Ctr)	6,660	5,000	6,711	5,000	6,997	5,000
Part Time Drop-Off (rural area):						
Village of Arcadia / Washington Twp	1,508	2,500	-	-	-	-
Village of Arlington / Madison Twp	2,299	2,500	2,317	2,500	2,415	2,500
Village of Jenera / Van Buren Twp	3,626	2,500	-	-	-	-
Village of McComb / Pleasant Twp	2,471	2,500	-	-	-	-
Village of Vanlue / Amanda Twp	1,024	2,500	-	-	-	-
Village of Van Buren / Allen Twp	2,533	2,500	-	-	-	-
Part Time Drop-Off (urban area):						
City of Findlay (First Presbyterian)	41,202	2,500	41,519	2,500	43,287	2,500
City of Findlay (Bigelow Hill School)	41,202	2,500	-	-	-	-
City of Findlay (Trinity Lutheran)	41,202	2,500	41,519	2,500	43,287	2,500
City of Findlay (Lincoln School)	41,202	2,500	-	-	-	-
City of Findlay (University of Findlay)	41,202	2,500	-	-	-	-
City of Findlay (Chamberlin Hill)	41,202	2,500	-	-	-	-
Total Access Credits	82,801		82,500		87,501	
Total ADJUSTED Service Area Population [2]	71,677		72,228		75,304	
Access Percentage	116%		114%		116%	

Notes:

1. Township populations exclude the village populations, unless specified.
2. Adjusted Service Area Population excludes the Village of Bluffton and the City of Fostoria.
3. Projected populations of townships, villages, and cities based on ODOD OSR estimates of Hancock County population and 2010 percentage breakdown.
4. Subscription curbside service in Findlay has been excluded from projected access calculations as this is a private program; the District has no control over its future viability.

Sample Calculations:

2010 Population of Hancock County = 74,782
2015 Population of Hancock County = 75,740
(Population Estimates from ODOD OSR)
Estimated Annual Increase = (75,740 - 74,782) / 5 = 191.6
2013 Population of Hancock County = 74,782 + (191.6 * 3) = 75,357

2010 Population of Findlay = 41,202
(2010 Population from ODOD OSR)
Findlay % in 2010 = 41,202 / 74,782 = 55.1%
Population of Findlay = Population of Hancock County * 55.1%
2013 Population of Findlay = 75,357 * 55.1% = 41,519

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VII-3
PROJECTIONS OF ANNUAL RATE OF WASTE REDUCTION
RESIDENTIAL/COMMERCIAL WASTE

YEAR	R(1)	C(2)	NC(3)	I (4)	A(5)	RA(6)	DL(7)	TWR(8)	P(9)	WRR(10)	PCWR(11)
2010	10,693	3,739	0	0	0	0	67,752	14,432	71,677	17.6%	1.10
2011	8,355	5,895	0	0	0	0	68,168	14,250	71,881	17.3%	1.09
2012	8,700	4,269	0	0	0	0	69,682	12,969	72,084	15.7%	0.99
2013	8,816	4,281	0	0	0	0	69,788	13,097	72,288	15.8%	0.99
2014	8,837	4,293	0	0	0	0	69,988	13,130	72,491	15.8%	0.99
2015	8,931	4,305	0	0	0	0	70,115	13,237	72,695	15.9%	1.00
2016	9,024	4,320	0	0	0	0	70,290	13,344	72,941	16.0%	1.00
2017	9,039	4,334	0	0	0	0	70,541	13,374	73,187	15.9%	1.00
2018	9,070	4,349	0	0	0	0	70,778	13,419	73,432	15.9%	1.00
2019	9,115	4,363	0	0	0	0	71,000	13,479	73,678	16.0%	1.00
2020	9,130	4,378	0	0	0	0	71,252	13,508	73,924	15.9%	1.00
2021	9,165	4,395	0	0	0	0	71,522	13,560	74,203	15.9%	1.00
2022	9,215	4,411	0	0	0	0	71,776	13,626	74,483	16.0%	1.00
2023	9,234	4,428	0	0	0	0	72,060	13,662	74,763	15.9%	1.00
2024	9,269	4,444	0	0	0	0	72,330	13,713	75,042	15.9%	1.00
2025	9,318	4,461	0	0	0	0	72,584	13,779	75,322	16.0%	1.00
2026	9,324	4,471	0	0	0	0	72,763	13,795	75,491	15.9%	1.00
2027	9,345	4,481	0	0	0	0	72,926	13,826	75,660	15.9%	1.00
2028	9,381	4,491	0	0	0	0	73,074	13,872	75,830	16.0%	1.00
2029	9,387	4,501	0	0	0	0	73,252	13,888	75,999	15.9%	1.00

(1) Tons of residential/commercial waste source reduced and recycled as shown in Table 6-2
(2) Tons of residential/commercial waste composted as shown in Table 6-2.
(3) Tons of non-compostable residential/commercial waste.
(4) Tons of residential commercial waste incinerated as shown in Table 6-2.
(5) Tons of residential/commercial waste incinerator ash and bypass waste produced.
(6) Tons of residential/commercial incinerator ash recycled.
(7) Tons of residential/commercial waste disposed in landfills as shown in Table 6-2.
(8) Tons of residential/commercial waste reduction.
(9) District population as shown in Table 5-1.
(10) Residential/commercial waste reduction rate as a percentage.
(11) Residential/commercial waste reduction per capita in pounds per person per day.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VII-4
PROJECTIONS OF ANNUAL RATE OF WASTE REDUCTION
INDUSTRIAL WASTE

YEAR	R(1)	C(2)	NC(3)	I (4)	A(5)	RA(6)	DL(7)	TWR(8)	P(9)	WRR(10)	PCWR(11)
2010	77,029	0	0	0	0	0	11,852	77,029	71,677	86.7%	5.89
2011	76,051	0	0	0	0	0	11,701	76,051	71,881	86.7%	5.80
2012	75,085	0	0	0	0	0	11,553	75,085	72,084	86.7%	5.71
2013	74,131	0	0	0	0	0	11,406	74,131	72,288	86.7%	5.62
2014	73,190	0	0	0	0	0	11,261	73,190	72,491	86.7%	5.53
2015	72,260	0	0	0	0	0	11,118	72,260	72,695	86.7%	5.45
2016	71,342	0	0	0	0	0	10,977	71,342	72,941	86.7%	5.36
2017	70,436	0	0	0	0	0	10,838	70,436	73,187	86.7%	5.27
2018	69,542	0	0	0	0	0	10,700	69,542	73,432	86.7%	5.19
2019	69,542	0	0	0	0	0	10,700	69,542	73,678	86.7%	5.17
2020	69,542	0	0	0	0	0	10,700	69,542	73,924	86.7%	5.15
2021	69,542	0	0	0	0	0	10,700	69,542	74,203	86.7%	5.14
2022	69,542	0	0	0	0	0	10,700	69,542	74,483	86.7%	5.12
2023	69,542	0	0	0	0	0	10,700	69,542	74,763	86.7%	5.10
2024	69,542	0	0	0	0	0	10,700	69,542	75,042	86.7%	5.08
2025	69,542	0	0	0	0	0	10,700	69,542	75,322	86.7%	5.06
2026	69,542	0	0	0	0	0	10,700	69,542	75,491	86.7%	5.05
2027	69,542	0	0	0	0	0	10,700	69,542	75,660	86.7%	5.04
2028	69,542	0	0	0	0	0	10,700	69,542	75,830	86.7%	5.03
2029	69,542	0	0	0	0	0	10,700	69,542	75,999	86.7%	5.01

(1) Tons of industrial waste source reduced and recycled as shown in Table 6-3
(2) Tons of industrial waste composted as shown in Table 6-3.
(3) Tons of non-compostable industrial waste.
(4) Tons of industrial waste incinerated as shown in Table 6-3.
(5) Tons of industrial waste incinerator ash and bypass waste produced.
(6) Tons of industrial incinerator ash recycled.
(7) Tons of industrial waste disposed in landfills as shown in Table 6-3.
(8) Tons of industrial waste reduction.
(9) District population as shown in Table 4-1.
(10) Industrial waste reduction rate as a percentage.
(11) Industrial waste reduction per capita in pounds per person per day.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VII-5
PROJECTIONS OF ANNUAL RATE OF WASTE REDUCTION
TOTAL DISTRICT SOLID WASTE

YEAR	R(1)	C(2)	NC(3)	I (4)	A(5)	RA(6)	DL(7)	TWR(8)	P(9)	WRR(10)	PCWR(11)
2010	87,722	3,739	0	0	0	0	79,604	91,461	71,677	53.5%	6.99
2011	84,406	5,895	0	0	0	0	79,869	90,301	71,881	53.1%	6.88
2012	83,785	4,269	0	0	0	0	81,235	88,054	72,084	52.0%	6.69
2013	82,947	4,281	0	0	0	0	81,194	87,228	72,288	51.8%	6.61
2014	82,027	4,293	0	0	0	0	81,249	86,320	72,491	51.5%	6.52
2015	81,192	4,305	0	0	0	0	81,233	85,497	72,695	51.3%	6.44
2016	80,367	4,320	0	0	0	0	81,267	84,686	72,941	51.0%	6.36
2017	79,476	4,334	0	0	0	0	81,379	83,810	73,187	50.7%	6.27
2018	78,612	4,349	0	0	0	0	81,478	82,961	73,432	50.5%	6.19
2019	78,657	4,363	0	0	0	0	81,700	83,020	73,678	50.4%	6.17
2020	78,672	4,378	0	0	0	0	81,952	83,050	73,924	50.3%	6.16
2021	78,707	4,395	0	0	0	0	82,222	83,101	74,203	50.3%	6.14
2022	78,756	4,411	0	0	0	0	82,476	83,168	74,483	50.2%	6.12
2023	78,776	4,428	0	0	0	0	82,760	83,204	74,763	50.1%	6.10
2024	78,811	4,444	0	0	0	0	83,030	83,255	75,042	50.1%	6.08
2025	78,860	4,461	0	0	0	0	83,284	83,321	75,322	50.0%	6.06
2026	78,866	4,471	0	0	0	0	83,463	83,337	75,491	50.0%	6.05
2027	78,887	4,481	0	0	0	0	83,626	83,368	75,660	49.9%	6.04
2028	78,923	4,491	0	0	0	0	83,774	83,414	75,830	49.9%	6.03
2029	78,929	4,501	0	0	0	0	83,952	83,430	75,999	49.8%	6.02

(1) Total tons of waste source reduced and recycled as shown in Table 6-1
(2) Total tons of waste composted as shown in Table 6-1.
(3) Total tons of non-compostable waste.
(4) Total tons of waste incinerated as shown in Table 6-1.
(5) Total tons of waste incinerator ash and bypass waste produced.
(6) Total tons of incinerator ash recycled.
(7) Total tons of waste disposed in landfills as shown in Table 6-1.
(8) Total tons of waste reduction.
(9) District population as shown in Table 4-1.
(10) Total waste reduction rate as a percentage.
(11) Per capita waste reduction in pounds per person per day.

VIII. COST AND FINANCING OF PLAN IMPLEMENTATION

A. Funding Mechanisms and Amount of Money Generated

1. District Disposal Fees

In 2010, the District was funded primarily by an existing disposal fee that was structured as follows: waste that was generated within the District and disposed at a sanitary landfill located within the District was assessed $1.50 per ton; waste that was generated outside the District but within the State of Ohio and disposed of at a sanitary landfill located within the District was assessed $3.00 per ton; and waste that was generated outside the State of Ohio and disposed at a sanitary landfill located within the District was assessed $1.50 per ton (i.e. a disposal fee with a ratio of $1.50:$3.00:$1.50).

As can be seen from Table VIII-1, the District has projected that it may be necessary to increase the disposal fee within the 15-year planning period in 2023. The projected increase will result in a disposal fee with a ratio of $2.00:$4.00:$2.00. This change will be evaluated and implemented as needed in the next five-year plan update cycle.

Table VIII-1 presents the District's proposed disposal fee schedule, along with the projected quantities of waste upon which disposal fees will be collected and the amounts of revenue that are projected to be collected. In 2010, 76,745 tons of in-district solid waste and 46,501 tons of out-of-district solid waste were accepted at the Hancock County Sanitary Landfill. These quantities exclude the amount of in-district and out-of-district exempt waste accepted by the landfill as exempt waste, by law, cannot be assessed disposal fees. Over the past five years, there has been considerable variability in the in-district and out-of-district waste receipts at the Hancock County Sanitary Landfill. Thus, the projections for the amounts of solid waste that will be disposed within the District are based upon a five-year average of the actual quantities of in-district and out-of-district waste disposed at the landfill in 2007-2011, as presented below in Table VIII.A.

To project the amount of in-district waste upon which the disposal fee will be collected, an annual rate of increase of 0.3 percent was applied. As shown in Table VIII.A below, this is well below the historic rates of increase observed over the past five years. The average annual rate of increase for in-district waste disposed at the Hancock County Sanitary Landfill over the past five years is 2.3 percent. However, with the economic downturn between 2008 and 2009, in-district disposal decreased by 13.2%. Given this fluctuation, it was the District's opinion that using the average rate of increase of 2.3 percent could over-project the amount of waste that will be disposed at the Hancock County Sanitary Landfill during the planning period. However, the District does anticipate that the amount of waste accepted at the landfill will continue to increase.

Thus, the District utilized a rate of increase of 0.3 percent, based on the rate of increase for residential/commercial generation. Applying the residential/commercial generation annual rate of increase in this manner is somewhat inappropriate given that a portion of the waste disposed at the landfill consists of industrial waste and a portion of the amount generated will be recycled and/or disposed at other landfills. However, given historic trends, the District feels that an annual rate of increase of 0.3 percent for in-district waste disposal is reasonable and conservative.

Table VIII.A. Historic Waste Receipts at the Hancock County Sanitary Landfill: 2006-2011

Year	In-District		Out-of-District		Total	
	Tons	% Increase	Tons	% Increase	Tons	% Increase
2006	71,496		38,931		110,427	
2007	79,503	11.2%	40,491	4.0%	119,994	8.7%
2008	83,966	5.6%	24,421	-40.0%	108,387	-9.7%
2009	72,849	-13.2%	34,913	43.0%	107,762	-0.6%
2010	76,745	5.3%	46,501	33.2%	123,246	14.4%
2011	78,927	2.8%	31,892	-31.4%	130,374	10.1%
5-year average (2007-2011)	78,398		35,644		117,953	

* From 2006-2011 Annual Operating Reports for the Hancock County Sanitary Landfill; tonnages exclude exempt waste.

This rate of increase has been applied to only in-district waste disposal. Although historical trends indicate that the Hancock County Sanitary Landfill has been accepting, on average, increasing quantities of out-of-district waste over the past five years, the rate of increase from one year to another has widely fluctuated, as seen in the table above. As out-of-district disposal at the landfill is greatly influenced by fees and transportation costs, the District does not feel it can reasonably estimate the rate of increase for out-of-district waste disposal. Thus, this Plan update uses the five-year average of out-of-district waste accepted at the Hancock County Sanitary Landfill over 2007-2011 (35,644 tons) in each year of the planning period.

2. Generation Fee

In 2010, the District was also funded by an existing generation fee of $1.50 per ton collected on all solid waste generated within the District and disposed within the State of Ohio. Table VIII-2 presents the District's proposed generation fee schedule along with the amounts of revenue that are projected to be collected throughout the planning period. As can be seen from Table VIII-2, the District has projected that it may be necessary to increase the generation fee to $2.00 per ton around 2023. This change will be evaluated and implemented as needed in the next five-year plan update cycle.

As with the revenue collected via the District's disposal fee, generation fee revenue was estimated using the five-year average of waste disposed at landfill facilities in 2007-2011. This was done to maintain consistency between the calculations of revenues that are projected from the disposal fee and generation fee and also to account for the variability in District generation observed over the past five years. In the 2010 reference year, approximately 79,604 tons of solid waste that was generated within the District was disposed in landfill facilities. The five-year average of District-generated solid waste disposed in landfill facilities in 86,488 tons, as shown below. This quantity excludes the amount of exempt waste generated within the district and disposed in landfill facilities.

Table VIII.B. Landfill Disposal of District-Generated Waste: 2006-2011

Year	Tons	% Increase
2006	93,180	
2007	97,791	4.9%
2008	88,727	-9.3%
2009	78,985	-11.0%
2010	79,604	0.8%
2011	87,331	9.7%
5-year average (2007 – 2011)	86,488	

The projections for the amounts of waste to be landfilled and assessed the generation fee throughout the planning period were determined by applying the residential/commercial generation annual rate of increase of 0.3 percent, as discussed above.

3. Surcharge on Exempt Waste

Even though the District cannot assess the disposal or generation fees on exempt waste that is accepted for disposal at the Hancock County Sanitary Landfill, the District does collect a per ton surcharge on all exempt waste accepted for disposal at the landfill. The amount of the surcharge is equal to amount of money that would have been collected on the waste if it had been solid waste. Thus, for in-district exempt waste, the surcharge is equal to the sum of the first tier of the disposal fee and generation fee. Similarly, out-of-district exempt waste is assessed a surcharge equal to the out-of-district tier of the disposal fee.

Over the past five years, there has been significant variability in the in-district and out-of-district exempt waste receipts at the Hancock County Sanitary Landfill. Thus, the quantities of in-district exempt waste upon which the surcharge will be collected were calculated based on the five-year average of exempt waste disposed at the Hancock County Sanitary Landfill in 2007-2011, as shown in Table VIII.C.

Table VIII.C. Exempt Waste Receipts at the Hancock County Sanitary Landfill: 2006-2011

Year	In-District		Out-of-District		Total	
	Tons	% Increase	Tons	% Increase	Tons	% Increase
2006	12,926		3,675		16,601	
2007	10,442	-19.2%	4,943	34.5%	15,385	-7.3%
2008	12,736	22.0%	1,931	-60.9%	14,667	-4.7%
2009	10,531	-17.3%	2,386	23.6%	12,917	-11.9%
2010	10,688	1.5%	2,772	16.2%	13,460	4.2%
2011	22,305	108.7%	2,520	-9.1%	24,825	84.4%
5-year average (2007-2011)	13,340		2,910		16,251	

* From 2006-2011 Annual Operating Reports for the Hancock County Sanitary Landfill

Projected in-district exempt waste disposal was determined by applying the residential/commercial waste generation rate of increase (0.3 percent) through the planning period. For out-of-district exempt waste, the surcharge was calculated based on the five-year average quantity of out-of-district exempt waste accepted at the Hancock County Sanitary Landfill in 2007-2011 (2,910 tons) and was held constant throughout the planning period. The projected quantities of exempt waste upon which the surcharge will be collected and the resultant revenue to be realized are presented in Table VIII-2A.

4. Recycling Revenue

As described in Chapters IV and V, the District operates a material recovery facility, Litter Landing, a network of permanent and mobile drop-off recycling units, a commercial recycling collection program and other community recycling opportunities. The recyclable materials collected by the District via these programs are processed at Litter Landing and sold to vendors. Revenue from Litter Landing accounts for a significant portion of the District's total revenues. In 2010, recycling sales totaled $390,830, approximately half of the total revenue generated by the District.

Projected revenues from the sale of recyclable materials was determined based upon 2012 sales revenue and the anticipated increase in material to be collected via the expansion of the District's Permanent Drop-Off Recycling Program (as described in Chapter V). In 2012, the District located locate 7 new recycling drop-offs. In 2013-2014, the District plans on adding one new drop-off at the landfill and one drop-off in Delaware Township. In 2015 and 2016 the District plans to institute three new locations in each year. Although the District does not typically weigh the

materials collected at individual recycling locations, in late 2011, the District weighed the roll off boxes collected over a 2-3 week period in order to determine estimated quantities of material collected at each location. This provided the District with a basis for the projections of future recyclable receipts from the drop-off recycling program, as discussed in Chapter V and shown in Table VIII.D.

Table VIII.D. Basis for Recycling Revenue Projections: 2011-2016

Year	# Additional Drop-Offs	Estimated Drop Off Tons	Total Litter Landing Tons	% Increase at Litter Landing	Recycling Revenue
2011	--	754	2,584	--	$511,875
2012	7	888	2.923	13.0%	$348,072
2013	1	972	3,007	2.9%	$358,166
2014	1	992	3,027	0.7%	$360,673
2015	3	1,070	3,105	2.6%	$370,051
2016	3	1,128	3,163	1.9%	$377,082

1. Litter Landing Tons and Recycling Revenue provided for 2011 and 2012 reflect actual quantities.
2. Estimated increases in Litter Landing Tons in 2013-2016 reflect only the estimated increase in the drop-off recycling; no other increases have been projected.

These projections do not take into account any potential increase in recycling at the current established drop off locations, nor do they include any potential increases in the value of recyclable material. Beyond 2016, the District has held the recycling revenue constant, as expansion of the District's recycling programs has only been planned over the next five years. Thus, the District feels that these projections are conservative. In addition, these projections are in line with past revenues from the sale of recyclables, as presented below.

Table VIII.E. Recycling Revenues: 2007-2012

Year	Revenue
2007	$288,725
2008	$299,071
2009	$178,716
2010	$390,830
2011	$511,876
2012	$348,072
6-year average (2007 – 2012)	$336,215

As shown in Table VIII.E, recycling revenues have varied over the past six years, but generally have hovered around $300,000, averaging $336,215 over the six year period. Variations from this trend, such as the low revenues in 2009 and the high revenues in 2011, are generally attributable to the market prices secured in a given year for recyclable materials. Accordingly, the District feels that the projected revenue to be realized from the sale of recyclable material, as presented in Table VIII-3, is reasonable and justified.

5. Summary of District Revenues

Table VIII-3 presents anticipated revenues from the sources available to the District. These include, as described above, revenues from the disposal fee, the generation fee, the surcharge on exempt waste, and the sale of recyclables, as well as other miscellaneous sources, including donations and reimbursements.

B. Costs of Plan Implementation

The entries in Table VIII-5 are the projected annual costs of implementing the programs, activities, and strategies that the District will provide during the planning period. The amounts that are presented are projections that are based on actual expenditures made in 2010 and 2011.

Generally, all costs have been projected to increase at a rate of at least two percent throughout the planning period to account for the expected inflation rate. An inflation rate of two percent was selected based upon the five-year average historical U.S. inflation rate from 2007 to 2011. In addition, labor costs have been projected to increase by at least three percent in order to account for inflation (cost of living adjustments), as well as merit-based salary increases and rising costs associated with benefits. The following descriptions are provided to support the costs for each line item presented.

Litter Landing

The costs to maintain and operate Litter Landing are based upon actual costs incurred in 2010-2011 and costs budgeted for 2012. These costs have been projected to increase at two percent throughout the planning period. Labor costs have been projected to increase at three percent. Litter Landing employs five full-time and five part-time employees. Full-time employees include one supervisor, and four truck drivers / equipment operators. Part-time employees include one truck driver, three general laborers and one office worker. Additional labor needs at the facility are satisfied by using volunteer and community service labor. The District does not anticipate hiring any additional employees or incurring any significant increase in the cost of labor to operate Litter Landing as it continues to utilize volunteer and community service labor to offset this cost.

For operation and maintenance costs, the District anticipates that these costs may decrease with the implementation of newer equipment and improved facilities, and has not projected any additional operation and maintenance costs beyond the two percent inflation rate. The estimated costs for the planned renovations and new equipment are shown as a separate line item with costs to be incurred in 2014; these costs include demolition of two buildings and construction of a new larger building, as discussed in Section V.

Waste Reduction & Recycling Programs

Costs for each of the line items under this category, discussed below, are based upon actual costs incurred in 2010-2011 and costs budgeted for 2012. These costs are projected to increase at two percent per year for inflation unless otherwise indicated.

Spring Clean Up Day – Costs associated with Spring Clean Up Day include advertising, materials (bags), the volunteer luncheon, and hauling costs to transport collected recyclables to Litter Landing.

Tire Collection Days & Landfill Collection – Costs associated with the Tire Collection Days include advertising and tire processing fees. Other costs associated with this event are borne by the local sponsor. No costs are associated with the Landfill Collection. The Landfill Collection is a service is offered for a fee by the Hancock County Sanitary Landfill. All revenues and costs associated with the Landfill Collection are associated with and accounted for under the landfill and are not associated with the District budget.

Agricultural Tire Collection Day – Costs associated with the Agricultural Tire Collection Day include advertising, labor for the event and tire processing fees. The District plans to hold this event every three years. The District has budgeted $5,500 for the first year of this program (2013) and this cost has been increased for inflation every three years throughout the planning period.

Don't Bag It/Backyard Composting Program – The costs for this program are typically included under Public Education & Awareness and include expenses for the printing of the Don't Bag It/Backyard Composting brochure. For the purpose of this Plan update, a cost of $300 has been deducted from the Public Education & Awareness expenses and assigned to this program.

Yard Waste Management / Composting – As part of this program, the District maintains a list of composting facilities on the District website and promotes the availability of these facilities in District literature. Costs associated with this outreach are included under the Public Education and Awareness Program.

Christmas Tree Recycling – Costs associated with the Christmas Tree Recycling program include advertising and hauling costs.

HHW Collection Day – Costs associated with the HHW Collection Day include advertising and the cost to hire the contractor to conduct the event.

Litter Landing HHW & Paint Collection – Costs associated with this program include advertising and the cost to dispose of the collected materials. Beginning in 2012, the types of materials accepted by this collection program are to be expanded, as described in Chapter V. Accordingly, the District has projected higher expenses associated with this program beginning in 2012.

Electronics Collection Day – Costs associated with this event include advertising and the cost to hire the contractor to conduct the event.

Litter Landing E-Collection – Costs associated with this program include advertising and the cost to dispose of the collected materials. This was a new program which began in 2011. Awareness of this program was rather limited in its first year and thus costs associated with the program were limited. However, based upon program participation and materials collected in 2012, the District has projected higher program costs beginning and 2012 and continuing throughout the planning period. These higher costs are primarily associated with the cost to dispose of the collected materials.

Adopt-a-Road – Costs associated with this event include advertising, expenses for the preparation and mailing of brochures and other printed material, and the cost of the signs posted on each segment of county roadway that is part of the Adopt-a-Road program.

Litter Crew – Costs associated with the Litter Crew include the vehicle and fuel costs incurred for the Litter Crew truck. This line item does not include the salary costs for the program; these are included under Labor for Plan & Program Implementation. The District intends to purchase a new truck for the Litter Crew in 2012; this cost is shown as a one-time expenditure in 2012.

Permanent & Mobile Drop-Off Recycling Units – Costs associated with the Recycling Units include costs for both the mobile and permanent recycling units. The first line item under this program, operation and maintenance, includes costs incurred for paint and general repairs necessary to keep the units presentable and in working condition. This line item does not include the salary costs for the program; these are included under Labor for Plan & Program Implementation. In 2011, the District incurred higher than normal maintenance costs for the drop-offs ($14,146). This can be attributed in part to maintenance costs that were delayed from 2010 to 201l, as well as the maintenance and painting associated with three drop-offs locations that are wooden collection buildings, rather than roll-off trailers. Over 2012-2016, the District is replacing these buildings with roll-off trailers. Accordingly, the District has projected fewer maintenance expenses beginning in 2012.

The second line item is for the purchase of new/replacement roll-off trailers and vehicles. The District intends to purchase six new roll-offs in 2012, at a cost of approximately $8,700 each. In addition, the District intends to purchase a new van in 2012, for approximately $25,000. In 2013, six more roll-offs will be purchased, as well as a new roll-off truck, which is estimated at $118,000. In 2014-2016, three roll-offs will be purchased each year. In 2017 and thereafter, costs are based on the purchase of one new roll-off per year. The roll-offs purchased will be used to replace wooden collection buildings and establish new drop-off locations.

Landfill Appliance Collection – No costs are associated with the Landfill Appliance Collection as this service is offered for a fee by the Hancock County Sanitary Landfill. All revenues and costs associated with this program are accounted for by the landfill, not the District budget.

Paper Shredding Day – Costs associated with the Paper Shredding Day will include advertising and a portion of the cost for the contractor to conduct the event. Remaining costs are covered by the local sponsor. This event was not held in 2010 or 2011, thus no costs are shown for those years.

Public Education & Awareness – This program covers a wide array of education and public outreach activities. Thus, the costs for the program include expenses for such things as maintenance of the District website, printing of brochures and fact sheets, preparation and maintenance of visual aids, advertising, postage, etc. Costs for this program have been adjusted

from actual expenses to account for the Don't Bag It / Backyard Composting Program, List of Existing Recycler/Brokers, Commercial, Governmental & Organization Recycling, and Program of Industrial Recycling, as described under each of those programs herein. This line item does not include the salary costs for the program; these are included under Labor for Plan & Program Implementation.

List of Existing Recycler/Brokers – The costs for this program are typically included under Public Education & Awareness and include the preparation of the Recycler/Broker brochure and the listing provided on the District website. For the purpose of this Plan update, a cost of $300 has been subtracted from the Public Education & Awareness expenses and assigned to this program.

Commercial & Governmental Technical Assistance – The costs for this program are typically included under Public Education & Awareness and include preparation of materials, such as brochures and fact sheets, to support commercial, governmental, and organizational recycling efforts. For the purpose of this Plan update, a cost of $300 has been subtracted from the Public Education & Awareness expenses and assigned to this program.

Commercial & Governmental Recycling – The costs for this program are included under the costs for Litter Landing and the Permanent & Mobile Drop-Off Recycling Units. The District picks up recyclables from commercial businesses and institutions free of charge as part of the collection process for the drop-off recycling units. All materials collected are processed at Litter Landing. Thus, no costs have been allocated to this program.

Program of Industrial Recycling – The costs for this program are typically included under Public Education & Awareness and include preparation of materials, such as brochures and fact sheets, to support industrial recycling efforts. For the purpose of this Plan update, a cost of $300 has been subtracted from the Public Education & Awareness expenses and assigned to this program.

Labor for Plan & Program Implementation – Costs for the labor to implement the programs listed under the heading "Waste Reduction & Recycling Programs" are allocated to Labor for Plan & Program Implementation. These costs include the salaries and fringe benefits of the employees paid by the District. These employees include two Litter Crew employees (one driver and one laborer), one part-time administrative assistant, and one part-time educator. Labor costs have been projected to increase at three percent throughout the planning period.

Plan Preparation & Monitoring

This category includes costs for supplies and consulting and legal fees incurred for preparation and monitoring for the District's solid waste management plan. Costs for the supplies line item are based upon budgeted 2012 costs and are projected to increase at two percent per year. Costs for consulting fees are estimated to be approximately $60,000 for each five-year plan update and $5,000 for all other years for assistance in the preparation of annual district reports and other consulting services as needed. The District does not anticipate incurring any legal fees during the planning period.

District Administration

This category includes costs for the District Coordinator salary and completion of the Quarterly Fee Reports. The District has estimated that the cost for salary and benefits will be approximately $52,293 in 2013 and has projected an increase of three percent every year thereafter. No cost has been allocated for completion of the Quarterly Fee Reports as this is an administrative function and the costs are covered by other expense categories.

Financial Assistance to Health Department

Beginning in 2013, and every three years thereafter, the District has allocated $25,000 to the Hancock County Health Department to provide assistance for their enforcement of ORC Section 3734.03, specifically in regard to scrap tires. This funding is intended to help cover costs associated with cleaning up tire dumps. The need for this funding varies year to year based on cleanup needs; the District and the Health Department have mutually agreed to $25,000 on a three year funding schedule as a baseline. This may be adjusted as necessary with the agreement of both

parties. Due to the variability of this cost, the District feels that the $25,000 allocated every three years is a reasonable and conservative estimate for planning purposes.

C. Funds Allocated from ORC Section 3734.57(B), ORC Section 3734.572 and ORC Section 3734.573

Since the District collects revenue from sources that are authorized under ORC Section 3734.57(B) (the disposal fee) and ORC Section 3734.573 (the generation fee), any expenditures involving these revenues must be made in accordance with ORC Section 3734.57(G). ORC Section 3734.57(G) specifies that revenues from disposal and generation fees can be spent only on ten allowable uses. Table VIII-6 presents the amounts of money that are allocated to each of these allowable uses in the planning period. This solid waste management plan update allocates money to three of the allowable uses: (1) preparation and monitoring of plan implementation, (2) implementation of approved plan, and (3) financial assistance to boards of health for solid waste enforcement.

D. Contingency Funding or Financing

The District is confident that the funding of planned programs is secured by the existing revenue sources, including the projected increase for both disposal fee and the generation fee in 2023. Therefore, at this time no contingent funding or financing sources are planned and Table VIII-7 was not prepared for this Plan update.

E. Summary of Costs and Revenues

Table VIII-8 presents a summary of the District's expected revenues and projected expenditures. The values entered for revenue are equivalent to the values presented in Table VIII-3. The values entered for expenditures correlate to the values from Table VIII-5.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VIII-1
PROJECTED DISTRICT DISPOSAL FEE SCHEDULE AND REVENUES

YEAR	Fee Schedule			Tons Disposed in District			Total Disposal Fee Revenue ($)
	In-District	Out-of-District	Out-of-State	In-District	Out-of-District	Out-of-State	
2010	$1.50	$3.00	$1.50	76,745	46,514	0	$254,660
2011	$1.50	$3.00	$1.50	78,927	31,892	0	$214,067
2012	$1.50	$3.00	$1.50	78,398	35,644	0	$224,529
2013	$1.50	$3.00	$1.50	78,633	35,644	0	$224,882
2014	$1.50	$3.00	$1.50	78,869	35,644	0	$225,236
2015	$1.50	$3.00	$1.50	79,106	35,644	0	$225,591
2016	$1.50	$3.00	$1.50	79,343	35,644	0	$225,947
2017	$1.50	$3.00	$1.50	79,581	35,644	0	$226,304
2018	$1.50	$3.00	$1.50	79,820	35,644	0	$226,662
2019	$1.50	$3.00	$1.50	80,059	35,644	0	$227,021
2020	$1.50	$3.00	$1.50	80,299	35,644	0	$227,381
2021	$1.50	$3.00	$1.50	80,540	35,644	0	$227,742
2022	$1.50	$3.00	$1.50	80,782	35,644	0	$228,105
2023	$2.00	$4.00	$2.00	81,024	35,644	0	$304,625
2024	$2.00	$4.00	$2.00	81,267	35,644	0	$305,111
2025	$2.00	$4.00	$2.00	81,511	35,644	0	$305,598
2026	$2.00	$4.00	$2.00	81,756	35,644	0	$306,087
2027	$2.00	$4.00	$2.00	82,001	35,644	0	$306,578
2028	$2.00	$4.00	$2.00	82,247	35,644	0	$307,070
2029	$2.00	$4.00	$2.00	82,494	35,644	0	$307,563

Notes:

1.) 2010 and 2011 In-District and Out-of-District waste disposed are actual amounts taken from the 2010 and 2011 Annual Operational Reports for the Hancock County Sanitary Landfill.

2.) 2012 In-District waste disposal is based upon a five-year average of in-district waste receipts at the Hancock County Landfill for 2007-2011.

3.) In-District waste disposal is assumed to increase at 0.3% for 2013-2029.

4.) Disposal quantities exclude exempt waste.

Sample Calculations:

2013 In-District Disposal = 2012 In-District Waste Disposed x 1.003 = 78,398 tons x 1.003 = 78,633 tons

2013 Disposal Fee Revenue = (2013 In-District Waste × In-District Fee) + (2013 Out-of-District Waste × Out-of-District Fee)
= (78,633 tons × $1.50) + (35,644 tons × $3.00) = $224,822

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VIII-2
GENERATION FEE SCHEDULE AND REVENUES

YEAR	Generation Fee ($/ton)	Amount of District Waste to be Disposed (tons)	Total Generation Fee Revenue ($)
2010	$1.50	79,604	$119,406
2011	$1.50	87,331	$130,997
2012	$1.50	86,488	$129,732
2013	$1.50	86,747	$130,121
2014	$1.50	87,008	$130,512
2015	$1.50	87,269	$130,903
2016	$1.50	87,531	$131,296
2017	$1.50	87,793	$131,690
2018	$1.50	88,057	$132,085
2019	$1.50	88,321	$132,481
2020	$1.50	88,586	$132,878
2021	$1.50	88,851	$133,277
2022	$1.50	89,118	$133,677
2023	$2.00	89,385	$178,771
2024	$2.00	89,653	$179,307
2025	$2.00	89,922	$179,845
2026	$2.00	90,192	$180,384
2027	$2.00	90,463	$180,926
2028	$2.00	90,734	$181,468
2029	$2.00	91,006	$182,013

Notes:

1.) 2010 waste disposal taken from the Annual District Report Review Form for 2010 (as shown in Table III-1 and III-3).

2.) 2011 waste disposal tasken from the Annual District Report Review Form for 2011

3.) 2012 waste disposal is based upon a five-year average of District-generated disposed waste for 2007-2011

4.) District waste disposal is assumed to increase at 0.3% for 2013-2029.

5.) Disposal excludes exempt waste.

Sample Calculations:

2013 District Disposal = 2012 District Disposal × 1.003 = 86,488 tons × 1.003 = 86,747 tons

2013 Generation Fee Revenue = 2013 District Disposal × 2013 Gen Fee = 86,747 × $1.50 = $130,121

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VIII-2A
PROJECTED REVENUE TO BE COLLECTED ON EXEMPT WASTE

YEAR	Surcharge Collected		Tons Disposed in District		Total Exempt Waste Revenue ($)
	In-District	Out-of-District	In-District	Out-of-District	
2010	$3.00	$3.00	10,688	2,772	$40,379
2011	$3.00	$3.00	22,305	2,520	$74,474
2012	$3.00	$3.00	13,340	2,910	$48,750
2013	$3.00	$3.00	13,380	2,910	$48,870
2014	$3.00	$3.00	13,420	2,910	$48,990
2015	$3.00	$3.00	13,460	2,910	$49,111
2016	$3.00	$3.00	13,501	2,910	$49,232
2017	$3.00	$3.00	13,541	2,910	$49,354
2018	$3.00	$3.00	13,582	2,910	$49,476
2019	$3.00	$3.00	13,623	2,910	$49,598
2020	$3.00	$3.00	13,664	2,910	$49,721
2021	$3.00	$3.00	13,705	2,910	$49,844
2022	$3.00	$3.00	13,746	2,910	$49,967
2023	$4.00	$4.00	13,787	2,910	$66,788
2024	$4.00	$4.00	13,828	2,910	$66,953
2025	$4.00	$4.00	13,870	2,910	$67,119
2026	$4.00	$4.00	13,911	2,910	$67,285
2027	$4.00	$4.00	13,953	2,910	$67,452
2028	$4.00	$4.00	13,995	2,910	$67,620
2029	$4.00	$4.00	14,037	2,910	$67,788

Notes:

1.) 2010 and 2011 In-District and Out-of-District exempt waste quantities are actual amounts taken from the 2010 and 2011 Annual Operational Reports for the Hancock County Sanitary Landfill.

2.) 2012 In-District and Out-of-District exempt waste disposal is based upon a five-year average of exempt waste receipts at the Hancock County Sanitary Landfill for 2007-2011.

3.) In-District exempt waste disposal is assumed to increase at 0.3% for 2013-2029.

Sample Calculations:

2011 In-District Disposal = 2010 In-District Waste Disposed × 1.005 = 10,688 tons × 1.005 = 10,741 tons

2011 Surcharge Revenue = (2011 In-District Waste × In-District Surcharge) + (2011 Out-of-District Waste × Out-of-District Surcharge)
= (10,720 tons × $3.00) + (2,771 tons × $3.00) = $40,471

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VIII-3
SUMMARY OF PROJECTED REVENUE GENERATED AND MECHANISMS USED

YEAR	Type of Revenue Mechanism and Amount Generated					Total Revenue Generated
	Disposal Fee	Generation Fee	Exempt Waste Surcharge	Recycling Revenue	Donations/ Grants	
2010	$254,660	$119,406	$40,379	$390,830	$5,843	$811,117
2011	$214,067	$130,997	$74,474	$511,876	$0	$931,413
2012	$224,529	$129,732	$48,750	$348,072	$0	$751,083
2013	$224,882	$130,121	$48,870	$358,166	$0	$762,039
2014	$225,236	$130,512	$48,990	$360,673	$0	$765,411
2015	$225,591	$130,903	$49,111	$370,051	$0	$775,656
2016	$225,947	$131,296	$49,232	$377,082	$0	$783,556
2017	$226,304	$131,690	$49,354	$377,082	$0	$784,429
2018	$226,662	$132,085	$49,476	$377,082	$0	$785,304
2019	$227,021	$132,481	$49,598	$377,082	$0	$786,182
2020	$227,381	$132,878	$49,721	$377,082	$0	$787,062
2021	$227,742	$133,277	$49,844	$377,082	$0	$787,945
2022	$228,105	$133,677	$49,967	$377,082	$0	$788,831
2023	$304,625	$178,771	$66,788	$377,082	$0	$927,264
2024	$305,111	$179,307	$66,953	$377,082	$0	$928,452
2025	$305,598	$179,845	$67,119	$377,082	$0	$929,644
2026	$306,087	$180,384	$67,285	$377,082	$0	$930,839
2027	$306,578	$180,926	$67,452	$377,082	$0	$932,037
2028	$307,070	$181,468	$67,620	$377,082	$0	$933,240
2029	$307,563	$182,013	$67,788	$377,082	$0	$934,446

Notes:

1.) Revenue provided for 2010 and 2011 includes fees and surcharges based upon actual waste receipts and actual recycling revenue.

2.) 2012 Recycling Revenue represents actual 2012 recycling revenues.

3.) Recycling revenue is assumed to increase by 2.9% for 2013, 0.7% for 2014, 2.6% for 2015 and 1.9% for 2016; the projected 2016 revenue is held constant for the remainder of the planning period (refere to text for additional details).

4.) Donations, reimbursements and grants have been excluded from revenue projections.

5.) Total revenue generated in 2010 and 2011 does not match 2010 and 2011 quarterly fee reports. This is because generation fees received from out-of-district facilities are calculated herein by applying the generation fee to the amount of waste received from the District in the calendar year. However, generation fee payments from out-of-district facilities are received by the District one month behind, i.e. December 2009 generation fees were received in January 2010. District account records fees when they are received. This accounts for the discrepancy in 2010 and 2011 revenues as they compare to the fee reports. For the purposes of the Plan Update, the District will use generation fee revenues based upon actual waste receipts in 2010 and 2011, as shown in Table VIII-2.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VIII-5
ANNUAL COST OF PLAN IMPLEMENTATION

Costs of Plan Implementation	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Litter Landing										
Buildings & Maintenance	$ 39,921	$ 44,987	$ 45,419	$ 46,327	$ 47,254	$ 48,199	$ 49,163	$ 50,146	$ 51,149	$ 52,172
Operations	$ 38,798	$ 67,741	$ 71,050	$ 72,471	$ 73,920	$ 75,399	$ 76,907	$ 78,445	$ 80,014	$ 81,614
Labor	$ 251,475	$ 271,640	$ 281,545	$ 289,991	$ 298,691	$ 307,652	$ 316,881	$ 326,388	$ 336,179	$ 346,265
Renovations & Equipment	$ -	$ -	$ -	$ -	$ 250,000	$ -	$ -	$ -	$ -	$ -
Total	$ 330,194	$ 384,368	$ 398,014	$ 408,790	$ 669,865	$ 431,250	$ 442,951	$ 454,979	$ 467,342	$ 480,051
Waste Reduction & Recycling Programs										
Spring Clean-Up Day	$ 4,912	$ 4,862	$ 5,000	$ 5,100	$ 5,202	$ 5,306	$ 5,412	$ 5,520	$ 5,631	$ 5,743
Tire Collection Days & Landfill Collection	$ 14,598	$ 14,979	$ 15,000	$ 15,300	$ 15,606	$ 15,918	$ 16,236	$ 16,561	$ 16,892	$ 17,230
Agricultural Tire Collection Day				$ 5,500			$ 5,837			$ 6,194
Don't Bag It/Backyard Composting Program	$ 300	$ 300	$ 300	$ 306	$ 312	$ 318	$ 325	$ 331	$ 338	$ 345
Yard Waste Management / Composting	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Christmas Tree Recycling	$ 2,390	$ 1,250	$ 1,500	$ 1,530	$ 1,561	$ 1,592	$ 1,624	$ 1,656	$ 1,689	$ 1,723
HHW Collection Day	$ 16,368	$ 16,739	$ 20,000	$ 20,400	$ 20,808	$ 21,224	$ 21,649	$ 22,082	$ 22,523	$ 22,974
Litter Landing HHW & Paint Collection	$ 22,434	$ 14,824	$ 30,000	$ 30,600	$ 31,212	$ 31,836	$ 32,473	$ 33,122	$ 33,785	$ 34,461
Electronics Collection Day	$ 5,856	$ 4,461	$ 6,000	$ 6,120	$ 6,242	$ 6,367	$ 6,495	$ 6,624	$ 6,757	$ 6,892
Litter Landing E-Collection	$ -	$ 978	$ 6,000	$ 6,120	$ 6,242	$ 6,367	$ 6,495	$ 6,624	$ 6,757	$ 6,892
Adopt-a-Road	$ 1,161	$ 1,173	$ 1,300	$ 1,326	$ 1,353	$ 1,380	$ 1,407	$ 1,435	$ 1,464	$ 1,493
Litter Crew	$ 4,056	$ 4,321	$ 55,600	$ 4,488	$ 4,488	$ 4,488	$ 4,488	$ 4,488	$ 4,488	$ 4,578
Permanent & Mobile Drop-Off Recycling Units										
- Operation & Maintenance	$ 4,326	$ 14,146	$ 10,000	$ 10,200	$ 10,404	$ 10,612	$ 10,824	$ 11,041	$ 11,262	$ 11,487
- Purchase of New/Replacement Trailer	$ -	$ 25,990	$ 77,200	$ 171,244	$ 27,154	$ 27,698	$ 28,251	$ 9,606	$ 9,798	$ 9,994
Landfill Appliance Collection	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Paper Shredding Day	$ -	$ -	$ 2,500	$ 2,550	$ 2,601	$ 2,653	$ 2,706	$ 2,760	$ 2,815	$ 2,872
Public Education & Awareness	$ 5,159	$ 3,895	$ 5,800	$ 5,916	$ 6,034	$ 6,155	$ 6,278	$ 6,404	$ 6,532	$ 6,662
List of Existing Recyclers/Brokers	$ 300	$ 300	$ 300	$ 306	$ 312	$ 318	$ 325	$ 331	$ 338	$ 345
Commercial & Governmental Technical Assistance	$ 300	$ 300	$ 300	$ 306	$ 312	$ 318	$ 325	$ 331	$ 338	$ 345
Commercial & Governmental Recycling	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Program of Industrial Recycling	$ 300	$ 300	$ 300	$ 306	$ 312	$ 318	$ 325	$ 331	$ 338	$ 345
Labor for Plan & Program Implementation	$ 75,223	$ 79,456	$ 87,209	$ 89,825	$ 92,520	$ 95,296	$ 98,154	$ 101,099	$ 104,132	$ 107,256
Total	$ 157,683	$ 188,274	$ 324,309	$ 377,443	$ 232,676	$ 238,165	$ 249,628	$ 230,348	$ 235,876	$ 247,829
Plan Preparation & Monitoring										
Supplies	$ 118	$ 689	$ 1,000	$ 1,020	$ 1,040	$ 1,061	$ 1,082	$ 1,104	$ 1,126	$ 1,149
Consulting	$ -	$ -	$ 50,000	$ 5,000	$ 5,000	$ 5,000	$ 5,000	$ 60,000	$ 5,000	$ 5,000
Legal	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total	$ 118	$ 689	$ 51,000	$ 6,020	$ 6,040	$ 6,061	$ 6,082	$ 61,104	$ 6,126	$ 6,149
District Administration										
Solid Waste Director	$ 41,101	$ 42,398	$ 48,807	$ 52,293	$ 53,862	$ 55,478	$ 57,142	$ 58,856	$ 60,622	$ 62,441
Quarterly Fee Reports	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total	$ 41,101	$ 42,398	$ 48,807	$ 52,293	$ 53,862	$ 55,478	$ 57,142	$ 58,856	$ 60,622	$ 62,441
Financial Assistance to Health Department										
Scrap Tire Assistance	$ -	$ -	$ -	$ 25,000	$ -	$ -	$ 25,000	$ -	$ -	$ 25,000
Total	$ -	$ -	$ -	$ 25,000	$ -	$ -	$ 25,000	$ -	$ -	$ 25,000
Total Expenditures	**$ 529,096**	**$ 615,729**	**$ 822,130**	**$ 869,546**	**$ 962,444**	**$ 730,954**	**$ 780,804**	**$ 805,288**	**$ 769,967**	**$ 821,470**

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VIII-5
ANNUAL COST OF PLAN IMPLEMENTATION

Costs of Plan Implementation	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Litter Landing										
Buildings & Equipment	$ 53,216	$ 54,280	$ 55,366	$ 56,473	$ 57,602	$ 58,754	$ 59,929	$ 61,128	$ 62,351	$ 63,598
Operations	$ 83,246	$ 84,911	$ 86,610	$ 88,342	$ 90,109	$ 91,911	$ 93,749	$ 95,624	$ 97,536	$ 99,487
Labor	$ 356,653	$ 367,352	$ 378,373	$ 389,724	$ 401,416	$ 413,458	$ 425,862	$ 438,638	$ 451,797	$ 465,351
Renovations & Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total	$ 493,115	$ 506,544	$ 520,348	$ 534,539	$ 549,127	$ 564,123	$ 579,540	$ 595,390	$ 611,684	$ 628,436
Waste Reduction & Recycling Programs										
Spring Clean-Up Day	$ 5,858	$ 5,975	$ 6,095	$ 6,217	$ 6,341	$ 6,468	$ 6,597	$ 6,729	$ 6,864	$ 7,001
Tire Collection Days	$ 17,575	$ 17,926	$ 18,285	$ 18,651	$ 19,024	$ 19,404	$ 19,792	$ 20,188	$ 20,592	$ 21,004
Agricultural Tire Collection Day			$ 6,573			$ 6,975			$ 7,402	
Don't Bag It/Backyard Composting Program	$ 351	$ 359	$ 366	$ 373	$ 380	$ 388	$ 396	$ 404	$ 412	$ 420
Yard Waste Management / Composting	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Christmas Tree Recycling	$ 1,757	$ 1,793	$ 1,828	$ 1,865	$ 1,902	$ 1,940	$ 1,979	$ 2,019	$ 2,059	$ 2,100
HHW Collection Day	$ 23,433	$ 23,902	$ 24,380	$ 24,867	$ 25,365	$ 25,872	$ 26,390	$ 26,917	$ 27,456	$ 28,005
Litter Landing HHW Collection	$ 35,150	$ 35,853	$ 36,570	$ 37,301	$ 38,047	$ 38,808	$ 39,584	$ 40,376	$ 41,184	$ 42,007
Electronics Collection Day	$ 7,030	$ 7,171	$ 7,314	$ 7,460	$ 7,609	$ 7,762	$ 7,917	$ 8,075	$ 8,237	$ 8,401
Litter Landing Electronics Collection	$ 7,030	$ 7,171	$ 7,314	$ 7,460	$ 7,609	$ 7,762	$ 7,917	$ 8,075	$ 8,237	$ 8,401
Adopt-a-Road	$ 1,523	$ 1,554	$ 1,585	$ 1,616	$ 1,649	$ 1,682	$ 1,715	$ 1,750	$ 1,785	$ 1,820
Litter Crew	$ 4,669	$ 4,763	$ 4,858	$ 4,955	$ 5,054	$ 5,155	$ 5,258	$ 5,364	$ 5,471	$ 5,580
Permanent & Mobile Drop-Off Recycling Units										
- Operating & Maintenance	$ 11,717	$ 11,951	$ 12,190	$ 12,434	$ 12,682	$ 12,936	$ 13,195	$ 13,459	$ 13,728	$ 14,002
- Purchase of New/Replacement Trailer	$ 10,193	$ 10,397	$ 10,605	$ 10,817	$ 11,034	$ 11,254	$ 11,479	$ 11,709	$ 11,943	$ 12,182
Landfill Appliance Collection	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Paper Shredding Day	$ 2,929	$ 2,988	$ 3,047	$ 3,108	$ 3,171	$ 3,234	$ 3,299	$ 3,365	$ 3,432	$ 3,501
Public Education & Awareness	$ 6,796	$ 6,932	$ 7,070	$ 7,212	$ 7,356	$ 7,503	$ 7,653	$ 7,806	$ 7,962	$ 8,121
List of Existing Recycler/Brokers	$ 351	$ 359	$ 366	$ 373	$ 380	$ 388	$ 396	$ 404	$ 412	$ 420
Commercial & Governmental Technical Assistance	$ 351	$ 359	$ 366	$ 373	$ 380	$ 388	$ 396	$ 404	$ 412	$ 420
Commercial & Governmental Recycling	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Program of Industrial Recycling	$ 351	$ 359	$ 366	$ 373	$ 380	$ 388	$ 396	$ 404	$ 412	$ 420
Labor for Plan & Program Implementation	$ 110,474	$ 113,788	$ 117,202	$ 120,718	$ 124,339	$ 128,069	$ 131,911	$ 135,869	$ 139,945	$ 144,143
Total	$ 247,541	$ 253,596	$ 266,379	$ 266,174	$ 272,705	$ 286,378	$ 286,271	$ 293,315	$ 307,943	$ 307,951
Plan Preparation & Monitoring										
Supplies	$ 1,172	$ 1,195	$ 1,219	$ 1,243	$ 1,268	$ 1,294	$ 1,319	$ 1,346	$ 1,373	$ 1,400
Consulting	$ 5,000	$ 5,000	$ 66,500	$ 5,000	$ 5,000	$ 5,000	$ 5,000	$ 73,500	$ 5,000	$ 5,000
Legal	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total	$ 6,172	$ 6,195	$ 67,719	$ 6,243	$ 6,268	$ 6,294	$ 6,319	$ 74,846	$ 6,373	$ 6,400
District Administration										
Solid Waste Coordinator	$ 64,314	$ 66,243	$ 68,231	$ 70,277	$ 72,386	$ 74,557	$ 76,794	$ 79,098	$ 81,471	$ 83,915
Quarterly Fee Reports	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total	$ 64,314	$ 66,243	$ 68,231	$ 70,277	$ 72,386	$ 74,557	$ 76,794	$ 79,098	$ 81,471	$ 83,915
Financial Assistance to Health Department										
Tire Clean-Up Assistance	$ -	$ -	$ 25,000	$ -	$ -	$ 25,000	$ -	$ -	$ 25,000	$ -
Total	$ -	$ -	$ 25,000	$ -	$ -	$ 25,000	$ -	$ -	$ 25,000	$ -
Total Expenditures	**$ 811,141**	**$ 832,578**	**$ 947,676**	**$ 877,234**	**$ 900,485**	**$ 956,352**	**$ 948,925**	**$ 1,042,649**	**$ 1,032,470**	**$ 1,026,702**

Notes:

1.) All 2010 and 2011 costs are based upon actual expenditures; 2012 costs are based on budgeted expenditures.

2.) The costs for all programs, except Litter Landing Labor, Labor for Plan & Program Implementation, Consulting and Solid Waste Coordinator, are expected to increase at 2.0% through the planning period.

3.) The cost of labor (Litter Landing Labor, Labor for Plan & Program Implemenation, and Solid Waste Coordinator) is projected to increase at 3.0% through the planning period.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VIII-6
REVENUES AND EXPENDITURES

YEAR	Gross Revenue ($)	EXPENDITURES *										TOTAL EXPEND-ITURES	BALANCE	CUMULATIVE BALANCE
		1	2	3	4	5	6	7	8	9	10			
														$ 366,746
2010	$811,117	$ 118	$ 528,978					$ -				$ 529,096	$ 282,021	$ 648,767
2011	$931,413	$ 689	$ 615,040					$ -				$ 615,729	$ 315,684	$ 964,452
2012	$751,083	$ 51,000	$ 771,130					$ -				$ 822,130	$ (71,047)	$ 893,405
2013	$762,039	$ 6,020	$ 838,526					$25,000				$ 869,546	$ (107,507)	$ 785,898
2014	$765,411	$ 6,040	$ 956,403					$ -				$ 962,444	$ (197,033)	$ 588,865
2015	$775,656	$ 6,061	$ 724,892					$ -				$ 730,954	$ 44,702	$ 633,567
2016	$783,556	$ 6,082	$ 749,721					$25,000				$ 780,804	$ 2,753	$ 636,320
2017	$784,429	$ 61,104	$ 744,184					$ -				$ 805,288	$ (20,859)	$ 615,461
2018	$785,304	$ 6,126	$ 763,841					$ -				$ 769,967	$ 15,337	$ 630,798
2019	$786,182	$ 6,149	$ 790,321					$25,000				$ 821,470	$ (35,288)	$ 595,510
2020	$787,062	$ 6,172	$ 804,969					$ -				$ 811,141	$ (24,079)	$ 571,431
2021	$787,945	$ 6,195	$ 826,383					$ -				$ 832,578	$ (44,633)	$ 526,798
2022	$788,831	$ 67,719	$ 854,957					$25,000				$ 947,676	$ (158,846)	$ 367,952
2023	$927,264	$ 6,243	$ 870,990					$ -				$ 877,234	$ 50,031	$ 417,983
2024	$928,452	$ 6,268	$ 894,217					$ -				$ 900,485	$ 27,967	$ 445,950
2025	$929,644	$ 6,294	$ 925,058					$25,000				$ 956,352	$ (26,708)	$ 419,242
2026	$930,839	$ 6,319	$ 942,605					$ -				$ 948,925	$ (18,086)	$ 401,156
2027	$932,037	$ 74,846	$ 967,803					$ -				########	$ (110,612)	$ 290,544
2028	$933,240	$ 6,373	########					$25,000				########	$ (99,231)	$ 191,313
2029	$934,446	$ 6,400	########					$ -				########	$ (92,256)	$ 99,057

NOTES:
1. Preparation and monitoring of plan implementation
2. Implementation of approved plan
3. Financial assistance to boards of health for SW enforcement
4. Financial assistance to counties within the district 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 SW 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 antilittering.
8. Financial assistance to boards of health for employees to participate in Ohio EPA's training and certification program for solid waste operators and facility
9. Financial assistance to local municipalities and townships to defray the added cost of roads and services related to the operation of SW facilities.
10. Compensation to affected communities.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VIII-8
SUMMARY OF REVENUES AND EXPENDITURES

Program Description		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Revenues		$ 811,117	$ 931,413	$ 751,083	$ 762,039	$ 765,411	$ 775,656	$ 783,556	$ 784,429	$ 785,304	$ 786,182
Expenditures											
Plan Implementation											
Litter Landing		$ 330,194	$ 384,368	$ 398,014	$ 408,790	$ 669,865	$ 431,250	$ 442,951	$ 454,979	$ 467,342	$ 480,051
Spring Clean-Up Day		$ 4,912	$ 4,862	$ 5,000	$ 5,100	$ 5,202	$ 5,306	$ 5,412	$ 5,520	$ 5,631	$ 5,743
Tire Collection Days & Landfill Collection		$ 14,598	$ 14,979	$ 15,000	$ 15,300	$ 15,606	$ 15,918	$ 16,236	$ 16,561	$ 16,892	$ 17,230
Agricultural Tire Collection Day		$ -	$ -	$ -	$ 5,500	$ -	$ -	$ 5,837	$ -	$ -	$ 6,194
Don't Bag It/Backyard Composting Program		$ 300	$ 300	$ 300	$ 306	$ 312	$ 318	$ 325	$ 331	$ 338	$ 345
Yard Waste Management / Composting		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Christmas Tree Recycling		$ 2,390	$ 1,250	$ 1,500	$ 1,530	$ 1,561	$ 1,592	$ 1,624	$ 1,656	$ 1,689	$ 1,723
HHW Collection Day		$ 16,368	$ 16,739	$ 20,000	$ 20,400	$ 20,808	$ 21,224	$ 21,649	$ 22,082	$ 22,523	$ 22,974
Litter Landing HHW & Paint Collection		$ 22,434	$ 14,824	$ 30,000	$ 30,600	$ 31,212	$ 31,836	$ 32,473	$ 33,122	$ 33,785	$ 34,461
Electronics Collection Day		$ 5,856	$ 4,461	$ 6,000	$ 6,120	$ 6,242	$ 6,367	$ 6,495	$ 6,624	$ 6,757	$ 6,892
Litter Landing E-Collection		$ -	$ 978	$ 6,000	$ 6,120	$ 6,242	$ 6,367	$ 6,495	$ 6,624	$ 6,757	$ 6,892
Adopt-a-Road		$ 1,161	$ 1,173	$ 1,300	$ 1,326	$ 1,353	$ 1,380	$ 1,407	$ 1,435	$ 1,464	$ 1,493
Litter Crew		$ 4,056	$ 4,321	$ 55,600	$ 4,488	$ 4,488	$ 4,488	$ 4,488	$ 4,488	$ 4,488	$ 4,578
Permanent & Mobile Drop-Off Recycling Units		$ 4,326	$ 40,136	$ 87,200	$ 181,444	$ 37,558	$ 38,310	$ 39,076	$ 20,646	$ 21,059	$ 21,480
Landfill Appliance Collection		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Paper Shredding Day		$ -	$ -	$ 2,500	$ 2,550	$ 2,601	$ 2,653	$ 2,706	$ 2,760	$ 2,815	$ 2,872
Public Education & Awareness		$ 5,159	$ 3,895	$ 5,800	$ 5,916	$ 6,034	$ 6,155	$ 6,278	$ 6,404	$ 6,532	$ 6,662
List of Existing Recyclers/Brokers		$ 300	$ 300	$ 300	$ 306	$ 312	$ 318	$ 325	$ 331	$ 338	$ 345
Commercial & Governmental Technical Assistance		$ 300	$ 300	$ 300	$ 306	$ 312	$ 318	$ 325	$ 331	$ 338	$ 345
Commercial & Governmental Recycling		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Program of Industrial Recycling		$ 300	$ 300	$ 300	$ 306	$ 312	$ 318	$ 325	$ 331	$ 338	$ 345
Labor for Plan & Program Implementation		$ 75,223	$ 79,456	$ 87,209	$ 89,825	$ 92,520	$ 95,296	$ 98,154	$ 101,099	$ 104,132	$ 107,256
Plan Monitoring / Preparation		$ 118	$ 689	$ 51,000	$ 6,020	$ 6,040	$ 6,061	$ 6,082	$ 61,104	$ 6,126	$ 6,149
District Administration											
Solid Waste Director		$ 41,101	$ 42,398	$ 48,807	$ 52,293	$ 53,862	$ 55,478	$ 57,142	$ 58,856	$ 60,622	$ 62,441
Quarterly Fee Reports		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Financial Assistance to Health Department		$ -	$ -	$ -	$ 25,000	$ -	$ -	$ 25,000	$ -	$ -	$ 25,000
Total Expenditures		$ 529,096	$ 615,729	$ 822,130	$ 869,546	$ 962,444	$ 730,954	$ 780,804	$ 805,288	$ 769,967	$ 821,470
Balance		$ 282,021	$ 315,684	$ (71,047)	$ (107,507)	$ (197,033)	$ 44,702	$ 2,753	$ (20,859)	$ 15,337	$ (35,288)
Cumulative Balance	$ 366,746	$ 648,767	$ 964,452	$ 893,405	$ 785,898	$ 588,865	$ 633,567	$ 636,320	$ 615,461	$ 630,798	$ 595,510

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VIII-8
SUMMARY OF REVENUES AND EXPENDITURES

Program Description	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Revenues	$787,062	$787,945	$788,831	$927,264	$928,452	$929,644	$930,839	$932,037	$933,240	$933,240
Expenditures										
Plan Implementation										
Litter Landing	$ 493,115	$ 506,544	$ 520,348	$ 534,539	$ 549,127	$ 564,123	$ 579,540	$ 595,390	$ 611,684	$ 628,436
Spring Clean-Up Day	$ 5,858	$ 5,975	$ 6,095	$ 6,217	$ 6,341	$ 6,468	$ 6,597	$ 6,729	$ 6,864	$ 7,001
Tire Collection Days & Landfill Collection	$ 17,575	$ 17,926	$ 18,285	$ 18,651	$ 19,024	$ 19,404	$ 19,792	$ 20,188	$ 20,592	$ 21,004
Agricultural Tire Collection Day	$ -	$ -	$ 6,573	$ -	$ -	$ 6,975	$ -	$ -	$ 7,402	$ -
Don't Bag It/Backyard Composting Program	$ 351	$ 359	$ 366	$ 373	$ 380	$ 388	$ 396	$ 404	$ 412	$ 420
Yard Waste Management / Composting	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Christmas Tree Recycling	$ 1,757	$ 1,793	$ 1,828	$ 1,865	$ 1,902	$ 1,940	$ 1,979	$ 2,019	$ 2,059	$ 2,100
HHW Collection Day	$ 23,433	$ 23,902	$ 24,380	$ 24,867	$ 25,365	$ 25,872	$ 26,390	$ 26,917	$ 27,456	$ 28,005
Litter Landing HHW & Paint Collection	$ 35,150	$ 35,853	$ 36,570	$ 37,301	$ 38,047	$ 38,808	$ 39,584	$ 40,376	$ 41,184	$ 42,007
Electronics Collection Day	$ 7,030	$ 7,171	$ 7,314	$ 7,460	$ 7,609	$ 7,762	$ 7,917	$ 8,075	$ 8,237	$ 8,401
Litter Landing E-Collection	$ 7,030	$ 7,171	$ 7,314	$ 7,460	$ 7,609	$ 7,762	$ 7,917	$ 8,075	$ 8,237	$ 8,401
Adopt-a-Road	$ 1,523	$ 1,554	$ 1,585	$ 1,616	$ 1,649	$ 1,682	$ 1,715	$ 1,750	$ 1,785	$ 1,820
Litter Crew	$ 4,669	$ 4,763	$ 4,858	$ 4,955	$ 5,054	$ 5,155	$ 5,258	$ 5,364	$ 5,471	$ 5,580
Permanent & Mobile Drop-Off Recycling Units	$ 21,910	$ 22,348	$ 22,795	$ 23,251	$ 23,716	$ 24,190	$ 24,674	$ 25,168	$ 25,671	$ 26,185
Landfill Appliance Collection	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Paper Shredding Day	$ 2,929	$ 2,988	$ 3,047	$ 3,108	$ 3,171	$ 3,234	$ 3,299	$ 3,365	$ 3,432	$ 3,501
Public Education & Awareness	$ 6,796	$ 6,932	$ 7,070	$ 7,212	$ 7,356	$ 7,503	$ 7,653	$ 7,806	$ 7,962	$ 8,121
List of Existing Recyclers/Brokers	$ 351	$ 359	$ 366	$ 373	$ 380	$ 388	$ 396	$ 404	$ 412	$ 420
Commercial & Governmental Technical Assistance	$ 351	$ 359	$ 366	$ 373	$ 380	$ 388	$ 396	$ 404	$ 412	$ 420
Commercial & Governmental Recycling	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Program of Industrial Recycling	$ 351	$ 359	$ 366	$ 373	$ 380	$ 388	$ 396	$ 404	$ 412	$ 420
Labor for Plan & Program Implementation	$ 110,474	$ 113,788	$ 117,202	$ 120,718	$ 124,339	$ 128,069	$ 131,911	$ 135,869	$ 139,945	$ 144,143
Plan Monitoring / Preparation	$ 6,172	$ 6,195	$ 67,719	$ 6,243	$ 6,268	$ 6,294	$ 6,319	$ 74,846	$ 6,373	$ 6,400
District Administration										
Solid Waste Director	$ 64,314	$ 66,243	$ 68,231	$ 70,277	$ 72,386	$ 74,557	$ 76,794	$ 79,098	$ 81,471	$ 83,915
Quarterly Fee Reports	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Financial Assistance to Health Department	$ -	$ -	$ 25,000	$ -	$ -	$ 25,000	$ -	$ -	$ 25,000	$ -
Total Expenditures	$ 811,141	$ 832,578	$ 947,676	$ 877,234	$ 900,485	$ 956,352	$ 948,925	$ 1,042,649	$ 1,032,470	$ 1,026,702
Balance	($24,079)	$ (44,633)	$ (158,846)	$ 50,031	$ 27,967	$ (26,708)	$ (18,086)	$ (110,612)	$ (99,231)	$ (93,462)
Cumulative Balance	$ 571,431	$ 526,798	$ 367,952	$ 417,983	$ 445,950	$ 419,242	$ 401,156	$ 290,544	$ 191,313	$ 97,851

IX. DISTRICT RULES

A. Existing Rules

The Board of Directors of the Hancock County Solid Waste Management District is presently authorized to adopt rules in accordance with and pursuant to ORC Section 3734.53(C) and ORC Section 343.01(G), to the extent any such rules are determined by the Board to be necessary or desirable to implement any provision or accomplish any objective of the Solid Waste Management Plan. This may include rules:

- Prohibiting or limiting the receipt of waste generated within the District;
- Governing the maintenance, protection, and use of solid waste collection, storage, transfer, disposal, recycling, processing, or resource recovery facilities;
- Governing a program to inspect out-of-state waste; and
- Exempting an owner or operator of a solid waste facility from compliance with local zoning requirements.

The District presently has rules in effect which require all solid waste generated within the District to be delivered to the Hancock County Sanitary Landfill, or to a solid waste facility located outside of the State of Ohio. The District also has rules in effect which prohibit the construction, modification, or enlargement of any solid waste disposal, transfer, recycling, or resource recovery facility unless the Board has approved general plans and specifications for the facility prior to construction. The District's present rules, which were adopted by the Board on April 22, 1999, are set forth in Appendix I.

The District's rules are important for the implementation and financing of the District's solid waste management plan. The centerpiece of the District's plan is the successful operation of the publicly-owned and financed Hancock County Sanitary Landfill, which is an environmentally secure solid waste disposal facility that meets Ohio EPA's requirements concerning the use of Best Available Technology. The Board intends that the Hancock County Sanitary Landfill will be operated in a safe and sanitary manner for the purpose of handling the solid waste disposal needs of all the residential, commercial, industrial, agricultural, and institutional generators of solid waste within the District.

B. Proposed Rules

The Board presently does not propose the adoption of any additional rules; however, this solid waste management plan completely reserves the Board's full authority to adopt any and all rules that it determines to be appropriate in order to address any issue that may arise concerning: the implementation and financing of the plan; the operation of the Hancock County Sanitary Landfill; or the collection, disposal, storage, transfer, and processing of solid waste and recyclable materials generated within or transported into the District. It is the District's policy that the publicly owned and financed Hancock County Sanitary Landfill will be operated in a safe and sanitary manner for the purpose of handling the solid waste disposal needs of all of the residential, commercial, industrial, agricultural and institutional generators of solid waste within the District. Achievement of this objective is central to the implementation and financing of this solid waste management plan. Pursuant to ORC Section 3734.52(E), nothing contained in this plan shall be construed to limit the Board's authority to take any action that may be deemed appropriate to address the operation, use, construction, repair or maintenance of the Hancock County Sanitary Landfill.

APPENDIX A

Resolutions for District Formation

(Omitted)

APPENDIX B

Copies of Public Notices for Public Hearing & Public Comment

APPENDIX C

Copies of Resolutions & Certification Statements Documenting Ratification

Certification Statement for the Draft Plan

For the Hancock County Solid Waste Management District, comprised of Hancock County,

We as representatives of the Hancock County Solid Waste Management District Policy Committee, do hereby certify that to the best of our knowledge and belief, the statements, demonstrations and all accompanying materials that comprise the District Solid Waste Management 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 15-year period covered by the Plan are accurate and are in compliance with the requirements in the District Solid Waste Management Plan Format, revision 3.0.

Edward Ingold
County Commissioner — Date Signed 8/9/12

Lydia Mihalik
Mayor, City of Findlay — Date Signed

Edward Huffman
Township Representative — Date Signed 8-9-12

Lindsay Summit
Heath District Designee — Date Signed 8-9-12

Greg McCartney
Solid Waste Generator Representative — Date Signed 8-9-12

Richard Kozolowski
Member Representing General Interests of Citizens — Date Signed

William Recker, Chairman
Public Representative — Date Signed 8/9/2012

APPENDIX D

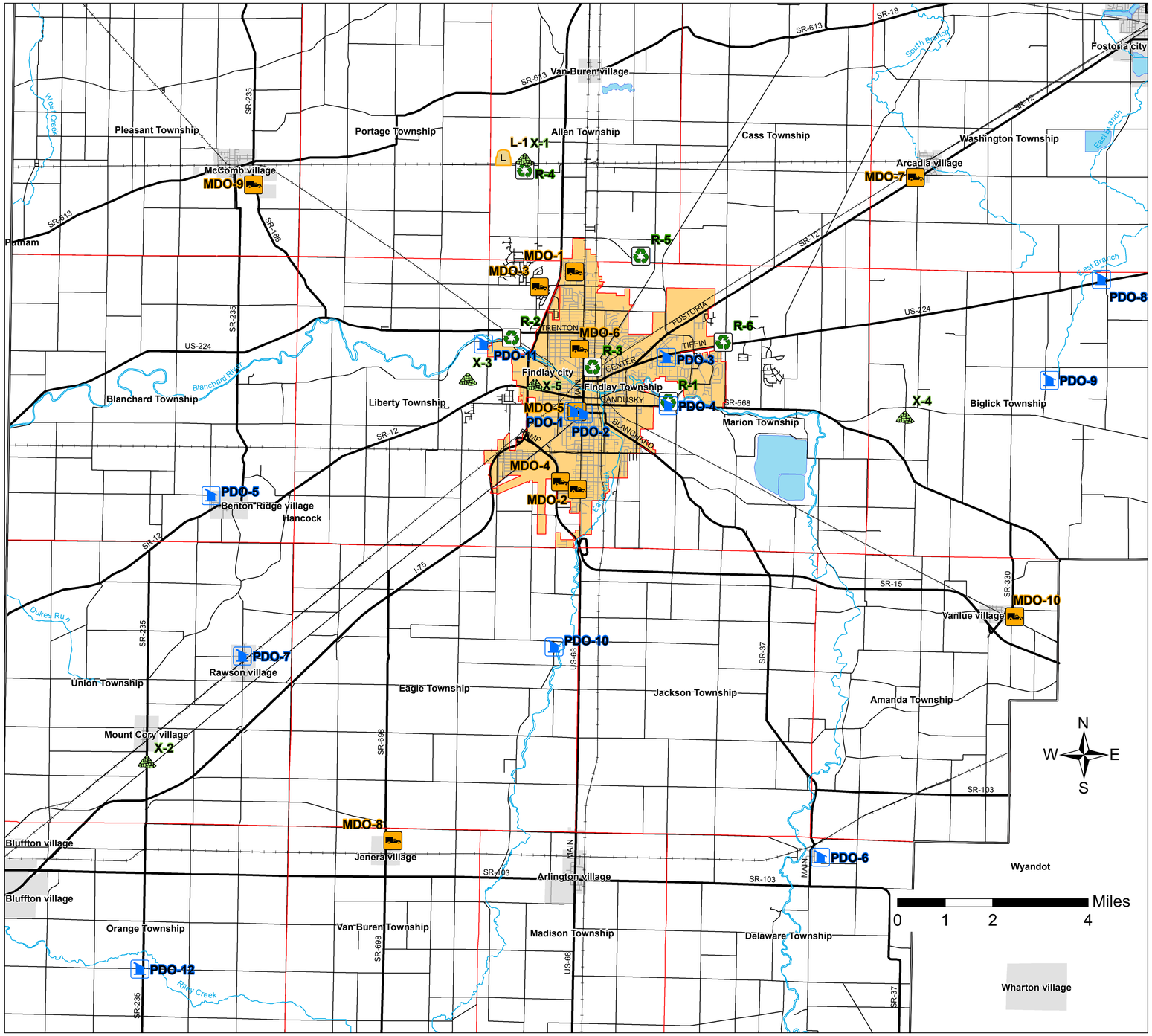
Identification of Consultants Retained for Plan Preparation

ARCADIS U.S., Inc.
100 E. Campus View Blvd., Suite 200
Columbus, Ohio 43235
(614) 985-9100

Contact Person: Kellie Hebert, P.E.

APPENDIX E

District Map



Legend

- Publicly Available Landfill
- Composting Activities
- Recycling Facilities
- Mobile Recycling Units
- Permanent Recycling Drop-Offs
- Subscription Curbside Recycling:
- AE Curbside (City of Findlay)
- County Boundaries
- State Roads
- Unincorporated Townships
- County and Township Roads
- City Roads
- Railways
- Major Streams and Rivers
- Lakes
- Municipalities

LIST OF FACILITIES & ACTIVITIES 2010

Label	Facility	Location
	Publicly Available Landfills	
L-1	Hancock County Sanitary Landfill	3763 County Road 140, Findlay
	Composting Activities	
X-1	Hancock County Sanitary Landfill	10400 Twp Rd. 107, Findlay
X-2	Bill Moyer Topsoil	16483 SR 235, Mt. Cory
X-3	Findlay Warehousing Co, Inc.	8556 County Road 140, Findlay
X-4	Luke Theis	Twp Rd. 251, Findlay
X-5	City of Findlay	13883 Twp Rd. 67, Findlay
	Recycling Facilities	
R-1	Litter Landing	1720 E. Sandusky St., Findlay
R-2	Flag City Brokers	7654 CR 223, Findlay
R-3	Shorty Variety Recycling	130 Crystal Ave., Findlay
R-4	All Recycling Management	10351 Allen Township Rd., Findlay
R-5	Lowe's Companies, Inc.	17700 County Road 212
R-6	Walmart Recycling	2500 Tiffin Ave., Findlay
	Mobile Recycling Units	
MDO-1	Findlay (2nd weekend of the month)	Bigelow Hill School 300 Hillcrest Ave., Findlay
MDO-2	Findlay (3rd weekend of the month)	First Presbyterian Church 2330 S. Main St., Findlay
MDO-3	Findlay (Last weekend of the month)	Trinity Lutheran Child Development 935 W. Bigelow Ave., Findlay
MDO-4	Findlay (1st Monday of the month)	Chamberlin Hill 600 West Yates, Findlay
MDO-5	Findlay (Last Monday of the month)	Lincoln School 200 W. Lincoln St., Findlay
MDO-6	Findlay (2nd Fridayof the month)	University of Findlay 1000 N. Main St., Findlay
MDO-7	Arcadia / Washington Twp (Last weekend of the month)	Trinity Lutheran Child Development 18974 SR 12, Arcadia
MDO-8	Jenera / Van Buren Twp (1st & 2nd weekends; Thurs-Mon)	Jenera Town Hall Jenera
MDO-9	McComb / Pleasant Twp (3rd Tues/Weds of the month)	McComb Village Maintenance Bldg. SR 186, McComb
MDO-10	Vanlue / Amanda Twp (1st weekend of the month)	Vanlue High School 301 S. East St., Vanlue
	Permanent Recycling Drop-Offs	
PDO-1	Findlay	Findlay City School Admin Bldg. 200 W. Main Cross St., Findlay
PDO-2	Findlay	First Lutheran Church 109 E. Lincoln St., Findlay
PDO-3	Findlay	St. John's Lutheran Church 1701 Tiffin Ave., Findlay
PDO-4	Findlay	Litter Landing 1720 E. Sandusky St., Findlay
PDO-5	Benton Ridge / Blanchard Twp	Benton Ridge Village Park Benton Ridge
PDO-6	Mount Blanchard / Delaware Twp	Mt. Blanchard Water Plant Mt. Blanchard
PDO-7	Rawson / Union Twp	Rawson Park CR 12 and CR 39, Rawson
PDO-8	Biglick Township	West Ind. United Methodist Church 22876 US 224, Fostoria
PDO-9	Biglick Township	Biglick Township Hall 8273 Twp. Rd. 258, Alvada
PDO-10	Eagle Township	Camp Berry Boy Scout Reservation 11716 CR 40, Findlay
PDO-11	Liberty Township	Hancock Co. Educ. Srv. Center 7746 CR 140, Findlay
PDO-12	Orange Township	Orange Township House CR 28 & SR 235 Bluffton

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ARCADIS
Infrastructure · Water · Environment · Buildings

HANCOCK COUNTY SOLID WASTE MANAGEMENT PLAN

ARCADIS, INC.

AUGUST 2012

APPENDIX F.1

Industrial Recycling & Generation Survey Results

Hancock County Industry - 2010 Data
2010 Data; Survey performed in December 2011
Recycled per SIC Code

SIC No.	I.D. No.	Emp.	Company		TONS paper	cardboard	wood	ferrous	nonferrous	plastics	glass	oil	stone, clay, sand	concrete	non-exempt foundry sand/sludge	ash	sludge	food	non hazardous chemicals	composites	batteries	rubber	passenger & truck tires	textiles fabric	other	specify	TOTAL RECYCLING
2011		7	D & H Meats	Recycled:																							0.00
2052		1400	Hearthside Foods	Recycled:	431.54	981.77	0.00	147.51	3.69	37.99		62.05						12,563.15			0.03						14,227.73
2041		62	Mennel Milling Co	Recycled:					18.98																		18.98
2063		7	Michigan Suger Co	Recycled:	4.00	1.00																					5.00
SIC 20	**TOTALS**	**1476**		**Recycled:**	**435.54**	**982.77**	**0.00**	**147.51**	**22.67**	**37.99**	**0.00**	**62.05**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**12,563.15**	**0.00**	**0.00**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**		**14,251.71**
				Recycled:																							0.00
SIC 22	**TOTALS**	**0**		**Recycled:**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**
2396		164	PIECO Inc	Recycled:	0.51		6.00		0.20	10.00		2.00									0.01				15.00	poly foam	33.72
SIC 23	**TOTALS**	**164**		**Recycled:**	**0.51**	**0.00**	**6.00**	**0.00**	**0.20**	**10.00**	**0.00**	**2.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**15.00**		**33.72**
2448		30	BR Pallet	Recycled:			18,289.37																				18,289.37
SIC 24	**TOTALS**	**30**		**Recycled:**	**0.00**	**0.00**	**18,289.37**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**18,289.37**
				Recycled:																							0.00
SIC 25	**TOTALS**	**0**		**Recycled:**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**
2631		18	Brown Co of Findlay LTD	Recycled:			1.00																				1.00
SIC 26	**TOTALS**	**18**		**Recycled:**	**0.00**	**0.00**	**1.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**1.00**
2752		13	Kennedy Printing Co. Inc.	Recycled:	68.00	1.00	2.00		4.00																1.00	ink	76.00
SIC 27	**TOTALS**	**13**		**Recycled:**	**68.00**	**1.00**	**2.00**	**0.00**	**4.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.00**		**76.00**
				Recycled:																							0.00
SIC 28	**TOTALS**	**0**		**Recycled:**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**
2911		1800	Marathon Petroleum Co	Recycled:	96.80			17.65										20			1.31				7.91	electronics	143.67
SIC 29	**TOTALS**	**1800**		**Recycled:**	**96.80**	**0.00**	**0.00**	**17.65**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**20.00**	**0.00**	**0.00**	**1.31**	**0.00**	**0.00**	**0.00**	**7.91**		**143.67**

Hancock County Industry - 2010 Data
2010 Data; Survey performed in December 2011
Recycled per SIC Code

SIC No.	I.D. No.	Emp.	Company		TONS paper	cardboard	wood	ferrous	nonferrous	plastics	glass	oil	stone, clay, sand	concrete	non-exempt foundry sand/sludge	ash	sludge	food	non hazardous chemicals	composites	batteries	rubber	passenger & truck tires	textiles fabric	other	specify	TOTAL RECYCLING
3011		1210	Cooper Tire & Rubber Co	Recycled:	45.00	119.00		497.00				238.00									0.05	1,414.00	3,822.00				6,135.05
3086		85	Createc Corp	Recycled:								0.96															0.96
3089		150	Rowmark LLC	Recycled:			10.00	1.00	1.00	500.00		0.40															512.40
3053		1	Superior Plastics INTL	Recycled:	0.00																						0.00
SIC 30	**TOTALS**	**1446**		**Recycled:**	**45.00**	**119.00**	**10.00**	**498.00**	**1.00**	**500.00**	**0.00**	**239.36**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.05**	**1,414.00**	**3,822.00**	**0.00**	**0.00**		**6,648.41**
				Recycled:																							0.00
SIC 31	**TOTALS**	**0**		**Recycled:**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**
3273		9	K & L Ready Mix Inc	Recycled:	1.00			2.00	1.00												1.00		4.00				9.00
SIC 32	**TOTALS**	**9**		**Recycled:**	**1.00**	**0.00**	**0.00**	**2.00**	**1.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.00**	**0.00**	**4.00**	**0.00**	**0.00**		**9.00**
3312		2	Nichidai USA Corp	Recycled:						0.05																	0.05
3366		5	MAASS - Midwest MFG Inc (Dickens Foundry)	Recycled:									24.00														24.00
3315		19	Seneca Wire & Manufacturing Co	Recycled:	0.20			251.00	1.00			4.00									0.10						256.30
SIC 33	**TOTALS**	**26**		**Recycled:**	**0.20**	**0.00**	**0.00**	**251.00**	**1.00**	**0.05**	**0.00**	**4.00**	**24.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.10**	**0.00**	**0.00**	**0.00**	**0.00**		**280.35**
3411		360	Ball Metal Beverage Container	Recycled:	5.30	210.00	137.00	93.23	12.80	4.00		5,400.00					350.00				0.01						6,212.34
3462		70	Cascade	Recycled:	0.81		2.50	615.00				2.45									0.01						620.77
3465		158	Findlay Products Corp	Recycled:	4.01	4.50	45.00		11,141.73			11.68															11,206.92
3479		35	Magnesium Elektron North America	Recycled:	1.00	2.00	68.00	2.00	264.00	1.00		1.00							1.00		1.00						341.00
3441		22	Northwest Installations Inc	Recycled:				5.00	10.00																		15.00
3441		15	Sausser Steel Co	Recycled:				30.10																			30.10
3465		188	Tower Automotive	Recycled:				13,366.00				326.40									0.75						13,693.15
SIC 34	**TOTALS**	**848**		**Recycled:**	**11.12**	**216.50**	**252.50**	**14,111.33**	**11,428.53**	**5.00**	**0.00**	**5,741.53**	**0.00**	**0.00**	**0.00**	**0.00**	**350.00**	**0.00**	**1.00**	**0.00**	**1.77**	**0.00**	**0.00**	**0.00**	**0.00**		**32,119.28**
3599		1	Artisan Enterprise Inc	Recycled:																							0.00
3599		2	Automotive Machine Shop, Inc	Recycled:		0.25		2.00	0.25			0.25											0.25				3.00
3531		48	Fabco Inc	Recycled:				23.00																			23.00
3541		278	Grob Systems Inc	Recycled:	3.10		46.90	389.20	24.00			33.10							0.70						0.12	toner cartridges/fl	497.12
3576		20	Holtgreven Scale & Electronics	Recycled:		1.00		1.50																			2.50
3599		38	RPM Carbide Die Inc	Recycled:	1.07		1.92	22.61																			25.60
3531		125	Werk-Brau Co	Recycled:				2,284.00				1.20															2,285.20

Hancock County Industry - 2010 Data
2010 Data; Survey performed in December 2011
Recycled per SIC Code

SIC No.	I.D. No.	Emp.	Company		TONS paper	cardboard	wood	ferrous	nonferrous	plastics	glass	oil	stone, clay, sand	concrete	non-exempt foundry sand/sludge	ash	sludge	food	non hazardous chemicals	composites	batteries	rubber	passenger & truck tires	textiles fabric	other	specify	TOTAL RECYCLING
SIC 35	**TOTALS**	**512**		**Recycled:**	**4.17**	**1.25**	**48.82**	**2,722.31**	**24.25**	**0.00**	**0.00**	**34.55**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.70**	**0.00**	**0.00**	**0.00**	**0.25**	**0.00**	**0.12**		**2,836.42**
3639		2000	Whirlpool Corp	Recycled:		1,476.00	511.60			680.00		50.00															2,717.60
SIC 36	**TOTALS**	**2000**		**Recycled:**	**0.00**	**1,476.00**	**511.60**	**0.00**	**0.00**	**680.00**	**0.00**	**50.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**2,717.60**
3714		250	Cummins Filtration, Inc	Recycled:	3.00	58.00	17.00		8.50	118.50		1.16							0.77		1.50						208.43
3714		250	Hisan Inc (PA)	Recycled:	20.00	75.00		1,067.66				4.20					710.49										1,877.35
3714		800	Nissin Brake Ohio Inc (PA)	Recycled:	307.00			3,588.00		133.00		879.00									0.10						4,907.10
3714		388	Roki America Co Ltd	Recycled	1.60	83.20	89.70	575.24	0.62	131.60		9.63						0.53	14.90		0.07		0.24				907.32
SIC 37	**TOTALS**	**1688**		**Recycled:**	**331.60**	**216.20**	**106.70**	**5,230.90**	**9.12**	**383.10**	**0.00**	**893.99**	**0.00**	**0.00**	**0.00**	**0.00**	**710.49**	**0.53**	**15.67**	**0.00**	**1.67**	**0.00**	**0.24**	**0.00**	**0.00**		**7,900.20**
				Recycled:																							0.00
SIC 38	**TOTALS**	**0**		**Recycled:**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**
				Recycled:																							0.00
SIC 39	**TOTALS**	**0**		**Recycled:**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**
GRAND TOTALS				**Recycled:**	994	3,013	19,228	22,981	11,492	1,616	0	7,027	24	0	0	0	1,060	12,584	17	0	6	1,414	3,826	0	24		85,307
ADJUSTED TOTALS				**Recycled:**	**994**	**3,013**	**19,228**	**22,981**	**11,492**	**1,616**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**12,584**	**0**	**0**	**6**	**1,414**	**3,826**	**0**	**15**		**77,168**
ADJUSTED DOUBLE COUNTING TOTALS				**Recycled:**	**994**	**3,013**	**19,088**	**22,981**	**11,492**	**1,616**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**12,584**	**0**	**0**	**6**	**1,414**	**3,826**	**0**	**15**		**77,029**

Note:
Blank spaces represent a quantity of zero.

Hancock County Industry - 2010 Data
2010 Data; Survey performed in December 2011
Generated per SIC Code

SIC No.	I.D. No.	Emp.	Company		TONS paper	cardboard	wood	ferrous	nonferrous	plastics	glass	oil	stone, clay, sand	concrete	non-exempt foundry sand/sludge	ash	sludge	food	non hazardous chemicals	composites	batteries	rubber	passenger & truck tires	textiles fabric	other	specify	TOTAL GENERATION
2011		7	D & H Meats	Generated:	1.00	1.00				1.00																	3.00
2052		1400	Hearthside Foods	Generated:	431.54	981.77	0.00	147.51	3.69	37.99		62.05					435.36	12,563.15			0.03					ink	14,663.09
2041		62	Mennel Milling Co	Generated:					18.98																		18.98
2063		7	Michigan Suger Co	Generated:	4.00	1.00																					5.00
SIC 20	**TOTALS**	**1476**		**Generated:**	**436.54**	**983.77**	**0.00**	**147.51**	**22.67**	**38.99**	**0.00**	**62.05**	**0.00**	**0.00**	**0.00**	**0.00**	**435.36**	**12,563.15**	**0.00**	**0.00**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**		**14,690.07**
				Generated:																							0.00
SIC 22	**TOTALS**	**0**		**Generated:**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**
2396		164	PIECO Inc	Generated:	0.91	231.00	6.10	0.10	0.30	10.30	0.01	2.00						0.02	0.10		0.01				52.00	20.00		322.85
SIC 23	**TOTALS**	**164**		**Generated:**	**0.91**	**231.00**	**6.10**	**0.10**	**0.30**	**10.30**	**0.01**	**2.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.10**	**0.00**	**0.01**	**0.00**	**0.00**	**52.00**	**20.00**		**322.85**
2448		30	BR Pallet	Generated:			18,289.37																				18,289.37
SIC 24	**TOTALS**	**30**		**Generated:**	**0.00**	**0.00**	**18,289.37**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**18,289.37**
				Generated:																							0.00
SIC 25	**TOTALS**	**0**		**Generated:**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**
2631		18	Brown Co of Findlay LTD	Generated:			1.00																				1.00
SIC 26	**TOTALS**	**18**		**Generated:**	**0.00**	**0.00**	**1.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**1.00**
2752		13	Kennedy Printing Co. Inc.	Generated:	68.00	1.00	2.50		4.00																1.00	ink	76.50
SIC 27	**TOTALS**	**13**		**Generated:**	**68.00**	**1.00**	**2.50**	**0.00**	**4.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.00**		**76.50**
				Generated:																							0.00
SIC 28	**TOTALS**	**0**		**Generated:**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**
2911		1800	Marathon Petroleum Co	Generated:				35.25										20.00	0.02		1.31				104.71		161.29
SIC 29	**TOTALS**	**1800**		**Generated:**	**0.00**	**0.00**	**0.00**	**35.25**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**20.00**	**0.02**	**0.00**	**1.31**	**0.00**	**0.00**	**0.00**	**104.71**	**0.00**	**161.29**

Hancock County Industry - 2010 Data
2010 Data; Survey performed in December 2011
Generated per SIC Code

SIC No.	I.D. No.	Emp.	Company		TONS paper	cardboard	wood	ferrous	nonferrous	plastics	glass	oil	stone, clay, sand	concrete	non-exempt foundry sand/sludge	ash	sludge	food	non hazardous chemicals	composites	batteries	rubber	passenger & truck tires	textiles fabric	other	specify	TOTAL GENERATION
3011		1210	Cooper Tire & Rubber Co.	Generated:	45.00	119.00		497.00				238.00									0.05	1,414.00	3,822.00				6,135.05
3086		85	Createc Corp	Generated:								0.96															0.96
3089		150	Rowmark LLC	Generated:			10.00	1.00	1.00	500.00		0.40															512.40
3053		1	Superior Plastics INTL	Generated:																							0.00
SIC 30	**TOTALS**	**1446**		**Generated:**	**45.00**	**119.00**	**10.00**	**498.00**	**1.00**	**500.00**	**0.00**	**239.36**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.05**	**1,414.00**	**3,822.00**	**0.00**	**0.00**		**6,648.41**
				Generated:																							0.00
SIC 31	**TOTALS**	**0**		**Generated:**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**
3273		9	K & L Ready Mix Inc	Generated:	2.00			2.00	1.00												1.00		4.00				10.00
32	**TOTALS**	**9**		**Generated:**	**2.00**	**0.00**	**0.00**	**2.00**	**1.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.00**	**0.00**	**4.00**	**0.00**	**0.00**		**10.00**
3366		5	MAASS - Midwest MFG Inc (Dickens Foundry)	Generated:									24.00														24.00
3312	423120	2	Nichidai USA Corp	Generated:	0.20	0.50	0.20																		0.05	Bubble Wrap	0.95
3315		19	Seneca Wire & Manufacturing Co	Generated:	0.70	1.00	11.00	253.00	1.00		0.10	4.00		56.53			12.51				0.10		0.10				340.04
SIC 33	**TOTALS**	**26**		**Generated:**	**0.90**	**1.50**	**11.20**	**253.00**	**1.00**	**0.00**	**0.10**	**4.00**	**24.00**	**56.53**	**0.00**	**0.00**	**12.51**	**0.00**	**0.00**	**0.00**	**0.10**	**0.00**	**0.10**	**0.00**	**0.05**		**364.99**
3411		360	Ball Metal Beverage Container	Generated:	45.30		137.00	93.23	12.80	6.00		5,400.00					500.00				0.01						6,194.34
3462		70	Cascade	Generated:	0.31		2.50	615.00				2.45									0.01						620.27
3465		158	Findlay Products Corp	Generated:	4.13	4.55	45.00		11,141.73			11.68															11,207.09
3479		35	Magnesium Elektron North America	Generated:	8.00		68.00		199.00	5.00		1.00					66.00		1.00		1.00			1.00	6.00	Floor Dry	356.00
3441		22	Northwest Installations Inc	Generated:				5.00	10.00																		15.00
3441		15	Sausser Steel Co	Generated:			0.50	30.10																			30.60
3465		188	Tower Automotive	Generated:	35.00		60.00	13,366.00				326.40															13,787.40
SIC 34	**TOTALS**	**848**		**Generated:**	**92.74**	**4.55**	**313.00**	**14,109.33**	**11,363.53**	**11.00**	**0.00**	**5,741.53**	**0.00**	**0.00**	**0.00**	**0.00**	**566.00**	**0.00**	**1.00**	**0.00**	**1.02**	**0.00**	**0.00**	**1.00**	**6.00**		**32,210.70**
3599		1	Artisan Enterprise Inc	Generated:	0.50			0.38	0.25																		1.13
3599		2	Automotive Machine Shop, Inc	Generated:	0.50	0.75		2.00	0.25			0.25					0.25						0.25				4.25
3531		48	Fabco Inc	Generated:				23.00																			23.00
3541		278	Grob Systems Inc	Generated:	3.10		46.90	389.20	24.00			33.10							0.70						0.12	toner cartridges	497.12
3596		20	Holtgreven Scale & Electronics	Generated:	1.00	2.00		3.50																			6.50
3599		38	RPM Carbide Die Inc	Generated:	2.12	1.05	1.92	22.61																			27.70
3531		125	Werk-Brau Co	Generated:				2,284.00				1.20															2,285.20
SIC 35	**TOTALS**	**512**		**Generated:**	**7.22**	**3.80**	**48.82**	**2,724.69**	**24.50**	**0.00**	**0.00**	**34.55**	**0.00**	**0.00**	**0.00**	**0.00**	**0.25**	**0.00**	**0.70**	**0.00**	**0.00**	**0.00**	**0.25**	**0.00**	**0.12**		**2,844.90**
3639		2000	Whirlpool Corp			1,476.00	511.60			680.00		50.00															2,717.60
SIC 36	**TOTALS**	**2000**		**Generated:**	**0.00**	**1,476.00**	**511.60**	**0.00**	**0.00**	**680.00**	**0.00**	**50.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**2,717.60**
3714		250	Cummins Filtration, Inc	Generated:		59.00	17.00		8.50	168.50		330.00							220.00		1.50						804.50
3714		250	Hisan Inc (PA)	Generated:	20.00	75.00		1,067.66				4.20					710.49										1,877.35
3714		800	Nissin Brake Ohio Inc (PA)	Generated:	307.00			3,588.00		133.00		879.00									1.00						4,908.00
3714		388	Roki America Co Ltd	Generated:	169.78	83.20	89.70		588.64	134.92	2.00	9.63	1.00	1.00				17.33	14.90		0.07	11.00	0.24	5.00			1,123.41
SIC 37	**TOTALS**	**1688**		**Generated:**	**496.78**	**217.20**	**106.70**	**4,655.66**	**597.14**	**436.42**	**2.00**	**1,222.83**	**1.00**	**1.00**	**0.00**	**0.00**	**710.49**	**17.33**	**234.90**	**0.00**	**2.57**	**11.00**	**0.24**	**5.00**	**0.00**		**8,718.26**

Hancock County Industry - 2010 Data
2010 Data; Survey performed in December 2011
Generated per SIC Code

SIC No.	I.D. No.	Emp.	Company		TONS paper	cardboard	wood	ferrous	nonferrous	plastics	glass	oil	stone, clay, sand	concrete	non-exempt foundry sand/sludge	ash	sludge	food	non hazardous chemicals	composites	batteries	rubber	passenger & truck tires	textiles fabric	other	specify	TOTAL GENERATION
				Generated:																							0.00
SIC 38	**TOTALS**	**0**		**Generated:**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**
3915		1	Barbara Hahn Goldwork (BHG)	Generated:	0.05																						0.05
SIC 39	**TOTALS**	**1**		**Generated:**	**0.05**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.05**
GRAND TOTALS		10,031		**Generated:**	1,150	3,038	19,300	22,426	12,015	1,677	2	7,356	25	58	0	0	1,725	12,601	237	0	6	1,425	3,827	58	132		87,056

Note:
Blank spaces represent a quantity of zero.

APPENDIX F.2

Residential/Commercial Recycling & Generation Survey Results

Hancock County Residential Recycling Special Events

2010 Data

Tire Recycling:

		Total Tires	PTEs	Pounds
Tire Recycling Days:	June 12, 2010	1,826	1,826	36,520
	Summer 2010	150	150	3,000
Hancock County Landfill:	Calendar Year 2010	1,813	2,301	46,020
		3,789	4,277	85,540
Conversion Factors:	20 lb/PTE			

Total Tonnage: 42.77

Appliance Recycling:

	Total No.
Appliances Collected at Landfill:	159

Tonnage Recycled: 11.66

Total Tonnage: 11.66

Yard Waste Recycling:

Christmas Tree Recycling Days: 300 trees
(December 26, 2010 through January 17, 2011)
Conversion Factor: 20 lb/tree

Total Tonnage: 3.00

Electronics Recycling:

			TVs	Monitors	CPUs
Electronics Recycling Day:	August 21, 2010	#	323	396	339

Total Tonnage: 29.71

Household Hazardous Waste:

Household Hazardous Waste Day:	September 10, 2011	35,480 lbs HHW (including recycled paint and oil)
		150 lbs lead-acid batteries
		200 lbs dry-cell batteries
Litter Landing Paint and Bulb Collection	Mondays, May-Nov 2010	54,276 lbs HHW (including paint and light bulbs)

Total Tonnage: 45.05

Hancock County Commercial Sector - 2010 Data

2010 Data; Survey performed in December 2011

				TONS																					
Emp.	ID	Company		paper	cardboard	wood	ferrous	nonferrous	plastics	glass	oil	stone, clay, sand	concrete	non-exempt foundry sand/sludge	ash	sludge	food	non hazardous chemicals	composites	batteries	white goods	passenger & truck tires	textiles fabric	other	specify	TOTAL RECYCLING
25		Appleseed IGA	Recycled:		40.00																					40.00
15		Bowers Heating & Cooling Inc	Recycled:	0.11	0.60	1.00	4.00		0.10		0.09										0.15	0.40				6.44
25		Café Marie	Recycled:																							0.00
8		Cooper Service	Recycled:				2.00				4.00									3.00		145.00				154.00
3		Danbv Products	Recycled:			108.00		8.00																		116.00
73		Findlav Countrv Club	Recycled:		20.00			0.08			0.37													10.00	Yard Waste	30.44
40		Findlay Implement Co	Recycled:	8.50	8.10	1.00		31.44			10.95									10.66						70.65
63		Findlay Surgery Center	Recycled:	2.00																						2.00
11		Findlay Surgical Assoc Inc	Recycled:																	0.03						0.03
10		Fornes Brake Service	Recycled:								5.00											6.00				11.00
70		Friends Business Source	Recycled:	2.00	5.00	10.00		2.00																		19.00
20		GFS MP 069	Recycled:		8.66																					8.66
1		K&K Cabinets	Recycled:			5.00																				5.00
550		Kohl's Distribution Center	Recycled:	4.50	2,000.00	4,000.00	114.00	0.55	1,000.00		0.73									3.00	25.00					7,147.78
1		Larry's Auto Repair Shop	Recycled:						0.13																	0.13
3		Lowenoak Landscape Development	Recycled:																							0.00
		Lowe's Regional Distribution Center	Generated:		352.39	3,011.40																				3,363.79
9		Luckv's Tavern	Recycled:								15.18															15.18
21		Mac Donald Supply	Recycled:			3.00	3.00	0.50	0.50																	7.00
3		Mr. Michael's Dry Cleaning	Recycled:																							0.00
2		New China Inn	Recycled:								0.70															0.70
15		Rarey-Roth	Recycled:				0.50		0.20																	0.70
8		State Liquor Store	Recycled:		26.00																					26.00
24		Streaker Tractor Sales Inc	Recycled:	0.20		1.50	15.00	0.25			5.00									2.00		1.20				25.15
GRAND TOTALS			Recycled:	17.31	2,460.75	7,140.90	138.50	42.82	1,000.93	0.00	42.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.69	25.15	152.60	0.00	10.00		11,049.65
ADJUSTED TOTALS			**Recycled:**	**17.31**	**460.75**	**3,140.90**	**138.50**	**42.82**	**0.93**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**18.69**	**25.15**	**152.60**	**0.00**	**10.00**		**4,007.63**

Note:

1. Not all responding commercial businesses were included. Only businesses with reported recycling were included.
2. The quantities of cardboard, wood and plastics reported by Kohl's appear to be estimated quanities. Estimated quantities are not creditable. Accordingly, these quantities have been excluded from the recycling totals.
3. Blank spaces represent a quantity of zero.

Hancock County Commercial Sector - 2010 Data

2010 Data; Survey performed in December 2011

			TONS																						
Emp.	ID	Company		paper	cardboard	wood	ferrous	nonferrous	plastics	glass	oil	stone, clay, sand	concrete	non-exempt foundry sand/sludge	ash	sludge	food	non hazardous chemicals	composites	batteries	white goods	passenger & truck tires	textiles fabric	other	specify	TOTAL GENERATION
25		Appleseed IGA	Generated:	0.25	40.00																					40.25
4		Book Nook	Generated:	0.00	0.03				0.00																	0.03
15		Bowers Heating & Cooling Inc	Generated:	0.26	0.60	1.00	4.00		0.10	0.10	0.09						0.25			0.01	0.15	0.40				6.95
25		Café Marie	Generated:	1.00	3.00				1.00								2.00									7.00
8		Cooper Service	Generated:				2.00		50.00		4.00									3.00		145.00				204.00
3		Danby Products	Generated:			108.00		8.00	1.00																	117.00
73		Findlay Country Club	Generated:		20.00			0.08			0.37													10.00	Yard Waste	30.44
40		Findlay Implement Co	Generated:	8.50	8.10	1.00		31.44			10.95									10.66						70.65
63		Findlay Surgery Center	Generated:	2.00																						2.00
11		Findlay Surgical Assoc Inc	Generated:																	0.03						0.03
10		Fornes Brake Service	Generated:								5.00											6.00				11.00
70		Friends Business Source	Generated:	9.00	6.00	12.00		3.00	2.00	1.00							1.00			0.01						34.01
1		K&K Cabinets	Generated:			5.00																				5.00
550		Kohl's Distribution Center	Generated:	4.50	2,005.00	5,000.00	114.00	0.55	1,000.00	1.00	0.73						1.00			3.00	25.00		12.00			8,166.78
1		Larry's Auto Repair Shop	Generated:						0.13																	0.13
3		Lowenoak Landscape Development	Generated:	2.00		3.00																		3.00	YW	8.00
		Lowe's Regional Distribution Center	Generated:		352.39	4,239.90																				4,592.29
9		Lucky's Tavern	Generated:								15.18															15.18
21		Mac Donald Supply	Generated:	1.00	0.50	3.50	3.50	0.50	1.00																	10.00
21		Mac Donald Supply	Generated:			0.50	0.50		0.50																	1.50
3		Mr. Michael's Dry Cleaning	Generated:	0.01	0.00																		0.00			0.01
2		New China Inn	Generated:								0.70						1.20									1.90
15		Rarey-Roth	Generated:	5.00		1.00	0.50		0.20																	6.70
8		State Liquor Store	Generated:	0.50	26.00																					26.50
24		Streaker Tractor Sales Inc	Generated:	1.10	1.50	1.50	15.00	0.25	0.20	0.20	5.00									2.00		1.20				27.95
GRAND TOTALS			Generated:	35.12	2,463.12	9,376.40	139.50	43.82	1,056.13	2.30	42.02	0.00	0.00	0.00	0.00	0.00	5.45	0.00	0.00	18.70	25.15	152.60	12.00	13.00		13,385.30
ADJUSTED TOTALS			**Generated:**	**35.12**	**2,463.12**	**9,376.40**	**139.50**	**43.82**	**1,056.13**	**2.30**	**42.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**5.45**	**0.00**	**0.00**	**18.70**	**25.15**	**152.60**	**12.00**	**13.00**		**13,385.30**

Blank spaces represent a quantity of zero.

Hancock County Residential Recycling Table

2010 Data

Materials	Residential Data* (Special Collections) Total (tons)	Commercial Data from COMDATA_10.xls Total (tons)	Recycler Data from RECYCLER_10.xls Total (tons)	Sum Total (tons)
Appliances	11.66	25.15	500.00	536.81
Lead-Acid Batteries	0.08	18.69	4.00	22.76
Dry Cell Batteries	0.10	--	--	0.10
Food	--	--	--	0.00
Glass	--	--	462.77	462.77
HHW	44.88	--	--	44.88
Ferrous Metals	--	138.50	59.66	198.16
Non-Ferrous Metals	--	42.82	30.90	73.72
Cardboard	--	460.75	3,114.31	3,575.06
Paper	--	17.31	2,056.08	2,073.39
Plastic	--	0.93	320.64	321.57
Rubber	--	--	--	0.00
Tires	42.77	152.60	0.00	195.37
Textiles	--	--	--	0.00
Oil / Automotive Fluids	--	--	--	0.00
Wood	--	3,140.90	4.66	3,145.56
Yard Waste	3.00	10.00	3,739.40	3,752.40
Commingled Recyclables	--	--	--	0.00
Electronics/Computers	29.71	--	--	29.71
Polyurethane Foam	--	--	--	0.00
Totals	**132.2**	**4,007.6**	**10,292.4**	**14,432.25**

* Tonnages of recyclables collected from the residential sector via permanent and mobile recycling drop offs is included under "Recycler Data" as it is all taken to Litter Landing for processing

APPENDIX F.3

Recycler/Broker Recycling Survey Results

Hancock County Recyclers/Broker Survey Data

2010 Data; Survey performed in December 2011

Emp.	Company		TONS paper	cardboard	wood	ferrous	nonferrous	plastics	glass	oil	stone, clay, sand	concrete	non-exempt foundry sand/sludge	ash	sludge	food	non hazardous chemicals	composites	batteries	white goods	passenger & truck tires	textiles fabric	yard waste	other	specify	TOTAL RECYCLING
2	AE Curbside	Recycled:	11.00	3.50		5.20	2.10	6.30	12.70										0.10							40.9
3	All Recycling Management (Formerly E&J Pallet)	Recycled:				2,400.00	97.00																			2,497.0
	Bill Moyer Topsoil	Recycled:																					346.00			346.0
	City of Findlay Broad Ave Compost	Recycled:																					3,026.00			3,026.0
	Findlay Warehousing Co Inc	Recycled:																					193.00			193.0
6	Flag City Recycling	Recycled:				4,000.00	250.00												7.00	500.00						4,757.0
10	Hancock County Landfill	Recycled:																		11.66	23.01		164.40			199.1
10	Litter Landing	Recycled:	2,054.18	2,063.75		82.70	28.80	275.70	462.77																	4,967.9
	Lowe's Companies, Inc.	Recycled:		75.60	4.66			0.09																		80.4
	Luke Theis	Recycled:																					10.00			10.0
	Various Scrap Tire Recyclers, per OEPA	Recycled:																			22,000.77					22,000.8
	Walmart Recycling in Ohio	Recycled:	7.76	1,067.12		0.49		45.85																		1,121.2
	Werlor Recycling	Recycled:			43.23																					43.2
Grand Total		Recycled:	2,072.9	3,210.0	47.9	6,488.4	377.9	327.9	475.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	511.7	22,023.8	0.0	3,739.4	0.0		39,282.4
Adjusted Totals		Recycled:	2,072.9	3,210.0	47.9	88.4	30.9	327.9	475.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	511.7	23.0	0.0	3,739.4	0.0		10,534.7
Adjusted Double Counting Totals		**Recycled:**	**2,056.1**	**3,114.3**	**47.9**	**59.7**	**30.9**	**320.6**	**462.8**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**4.0**	**500.0**	**0.0**	**0.0**	**3,739.4**	**0.0**		**10,335.7**

Note:
1. The material from Werlor Recycling and Various Scrap Tire Recyclers is from the industrial sector; all other material is residential/commercial. The quanities of recycling from Werlor have been attributed under the industrial recycling totals.
2. The quantity of ferrous and non-ferrous metals recycled by All Recycling Management and Flag City recycling has been determined to be non-creditable. These quantities have been excluded from the recycling totals.
3. The quantity of tires reported as being recycled in Hancock County by Various Scrap Tire Recyclers is identified as "subject to change" per Ohio EPA. This quantity is questionable and has been excluded from the recycling totals.
4. Blank spaces represent a quantity of zero.

8,742.0

APPENDIX F.4

Double Counting Adjustments to Survey Results

Hancock County Double Counting Table

2010 Data Adjusted Double Counting

Material	Recycler/Buyback/Broker		Total Reported from Industries/Businesses to these Companies*	Source
Paper	Litter Landing		5.86	Industry
	Litter Landing		11.0	Res/Com
		Paper Total	**16.9**	
Cardboard	Litter Landing		59.0	Industry
	Litter Landing		3.5	Res/Com
	Litter Landing		33.2	Commercial
		Cardboard Total	**95.7**	
Wood	BR Pallet		139.5	Industry
		Wood Total	**139.5**	
Plastics	Litter Landing		6.3	Res/Com
	Litter Landing		1.0	Commercial
		Plastics Total	**7.3**	
Ferrous	Litter Landing		1.0	Industry
	Litter Landing		27.7	Industry
	Flag City Recyclers*		5.2	Res/Com
		Ferrous Total	**28.7**	
Non-Ferrous	Flag City Recyclers*		32.5	Industry
	Flag City Recyclers*		2.1	Res/Com
	Flag City Recyclers*		1.0	Commercial
		Non-Ferrous Total	**0.0**	
Glass	Litter Landing		12.7	Res/Com
		Glass Total	**12.7**	
Batteries	Flag City Recyclers		0.1	Res/Com
	Flag City Recyclers		3.0	Commercial
		Batteries Total	**3.1**	
Tires	Hancock County Landfill		23.0	Res/Com
		Tires Total	**23.0**	
White Goods	Hancock County Landfill		11.7	Res/Com
		White Goods Total	**11.7**	

Note:

1. These material totals were subtracted from the recycler data, with the exception of wood sent to BR Pallet, which was subtracted from the industrial data (BR Pallet is listed under industry).
2. (*) The total quantities of ferrous and non-ferrous metals reported by Flag City Recyclers were determined to be non-creditable. Thus, removal of double-counting of these materials is not necessary.

APPENDIX G

Recycling Drop-Off Locations & Mobile Trailer Locations/Schedule

2010 Full-Time and Part-Time Recycling Units

Unit	Location	Schedule / Availability	Collected Materials	Representing
FULL-TIME RECYCLING UNITS				
1	Findlay City School Administrative Bld. 200 W. Main Cross Street Findlay, Ohio 45840	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
2	First Lutheran Church 109 E. Lincoln & S. Main St. Findlay, Ohio 45840	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
3	St. John's Lutheran Church 1701 Tiffin Avenue Findlay, Ohio 45840	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
4	West Independence United Methodist Church 22876 US 224 Fostoria, Ohio 44830	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Biglick Township
5	Biglick Township Hall 8273 Twp. Rd 258 Alvada, Ohio 44802	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Biglick Township
6	Camp Berry- Boy Scout Res. 11716 CR 40 Eagle Township Findlay, Ohio 45840	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Eagle Township
7	Hancock County Educational Service Center 7746 CR 140 Findlay, Ohio 45840	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Liberty Township
8	Orange Township House CR 28 & SR 235 Bluffton, Ohio	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Orange Township
9	Benton Ridge Village Park Benton Ridge, Ohio 45816	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Benton Ridge / Blanchard Township
10	Water Plant Village of Mt. Blanchard Mt. Blanchard, Ohio 45827	Fulltime, 24/7	Clear, Green & Brown Glass, Steel Cans, Plastics, Newspaper, Corrugated Cardboard	Village of Mt. Blanchard / Delaware Township
11	Rawson Park Village of Rawson Rawson, Ohio 45881	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Rawson / Union Township

2010 Full-Time and Part-Time Recycling Units

Unit	Location	Schedule / Availability	Collected Materials	Representing
PART-TIME RECYCLING UNITS				
1	First Presbyterian Church 2330 S. Main Street Findlay, OH	3rd Weekend of the month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
2	Bigelow Hill School 300 Hillcrest Avenue Findlay, OH	2nd Weekend of month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
3	Trinity Lutheran Church 935 W. Bigelow Avenue Findlay, OH	Last Weekend of the month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
4	Lincoln School 200 West Lincoln Street Findlay, OH	Last Monday of the month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
5	University of Findlay 1000 N. Main Street Findlay, OH	2nd Friday of the month	Computer/Office Paper, Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines	City of Findlay
6	Chamberlin Hill 600 West Yates Findlay, OH	1st Monday of the month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
7	Trinity Lutheran Child Development Center SR 12, Arcadia, OH	Last Weekend of the month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Arcadia / Washington Township
8	Good Hope Lutheran Church Arlington, OH	3rd Saturday of the month	Corrugated Cardboard, Glass, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Arlington / Madison Township
9	Jenera Town Hall Jenera, OH	1st & 2nd Weekend of the month / Thurs-Mon	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Jenera / Van Buren Township
10	McComb City Maintenance Building McComb, OH	3rd Tues/Wed of month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of McComb / Pleasant Township
11	Van Buren Lutheran Church Van Buren, OH	2nd Saturday of the month	Corrugated Cardboard, Glass, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Van Buren / Allen Township
12	Vanlue High School 301 S East Street Vanlue, OH	1st weekend of the month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Vanlue / Amanda Township

2012 Full-Time and Part-Time Recycling Units

Unit	Location	Schedule / Availability	Collected Materials	Representing
FULL-TIME RECYCLING UNITS				
1	Hancock County Parking Lot in vicinity of library Cory St. & Front St. Findlay, Ohio	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	City of Findlay
2	Chamberlin Hill 600 West Yates Findlay, Ohio	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	City of Findlay
3	Open Lot E. Main Cross St. & Blanchard St. Findlay, Ohio	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	City of Findlay
4	Blanchard Valley Co-op CR 236 and SR 12 Findlay, Ohio	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	City of Findlay
5	Whirlpool Corp Parking Lot CR 220 & TR 215	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	Allen Township
6	West Independence United Methodist Church 22876 US 224 Fostoria, Ohio 44830	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	Biglick Township
7	Biglick Township Hall 8273 Twp. Rd 258 Alvada, Ohio 44802	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	Biglick Township
8	Cass Township Hall 2249 CR 18 Arcadia, Ohio 44804	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Cass Township
9	Camp Berry- Boy Scout Res. 11716 CR 40 Eagle Township Findlay, Ohio 45840	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	Eagle Township
10	Hancock County Educational Service Center 7746 CR 140 Findlay, Ohio 45840	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	Liberty Township

2012 Full-Time and Part-Time Recycling Units

Unit	Location	Schedule / Availability	Collected Materials	Representing
11	Orange Township House CR 28 & SR 235 Bluffton, Ohio	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	Orange Township
12	Deweyville Church CR 203	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	Portage Township
13	Portage Township House 8037 State Route 16	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	Portage Township
14	Arcadia Arcadia School 19003 SR 12, Arcadia	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	Village of Arcadia / Washington Township
15	Madison Township House 12003 Township Road 150 Arlington, Ohio	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	Village of Arlington / Madison Township
16	Benton Ridge Village Park Benton Ridge, Ohio 45816	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	Village of Benton Ridge / Blanchard Township
17	Jenera Town Park 18800 SR 698 Jenera, Ohio 45841	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	Village of Jenera / Van Buren Township
18	McComb Village Maintenance Building	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	Village of McComb / Pleasant Township
19	Village of Mount Cory Grain Elevator SR 235 & TR 36	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	Village of Mount Cory / Union Township
20	Mt. Blanchard Central Park Mt. Blanchard	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	Village of Mt. Blanchard / Delaware Township
21	Rawson Park Village of Rawson Rawson, Ohio 45881	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	Village of Rawson / Union Township
22	Village of Van Buren Ash Street & Wood Street	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	Village of Van Buren / Allen Township

2012 Full-Time and Part-Time Recycling Units

Unit	Location	Schedule / Availability	Collected Materials	Representing
23	Amanda Township House 309 Main Cross St., Vanlue	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans, Glass	Village of Vanlue / Amanda Township
PART-TIME RECYCLING UNITS				
1	First Presbyterian Church 2330 S. Main Street Findlay, Ohio	3rd Weekend of the month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
2	Trinity Lutheran Church 935 W Bigelow Av Findlay, Ohio	Last Weekend of the month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
3	Good Hope Lutheran Church Arlington, OH	3rd Saturday of the month	Corrugated Cardboard, Glass, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Arlington / Madison Township

APPENDIX H

Program Analysis

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

PROGRAM NEEDS ANALYSIS

RANKINGS:

Goal Criteria:		Participation Criteria:		Cost Criteria:	
1	Doesn't meet Goals	1	Low Participation	1	High
2	Somewhat meets Goals	2	Good Participation	2	Medium
3	Meets Goals	3	Excellent Participation	3	Low

GOAL CRITERIA	Spring Clean Up Day	Tire Collection Days / Landfill Collection	Don't Bag It / Backyard Composting	Christmas Tree Recycling	HHW Collection Day	Litter Landing HHW & Paint Collection	Electronics Collection Day	Litter Landing E- Collection	Adopt-a-Road Program	Litter Crew	Litter Landing	Permanent Recycling Units	Mobile Recycling Units	Landfill Appliance Collection	Paper Shredding Day	Public Education & Awareness	List of Existing Recyclers / Brokers	Com, Gov, Org Recycling	Industrial Recycling
Ohio EPA Goals																			
Does this Program meet Goal 1?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	NO	NO	NO	NO	NO	NO
Does this Program meet Goal 2?	NO	YES	NO	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO
Does this Program meet Goal 3?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO
Does this Program meet Goal 4?	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES
Does this Program meet Goal 5?	NO	YES	NO	NO	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
District Goals																			
Clean roadside litter	YES	NO	NO	NO	NO	NO	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO
Permanent recycling drop-offs	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO
GOAL RANKING	1	3	2	2	3	3	3	3	1	2	3	3	3	2	2	3	2	2	2

PARTICIPATION CRITERIA	Spring Clean Up Day	Tire Collection Days / Landfill Collection	Don't Bag It / Backyard Composting	Christmas Tree Recycling	HHW Collection Day	Litter Landing HHW & Paint Collection	Electronics Collection Day	Litter Landing E- Collection	Adopt-a-Road Program	Litter Crew	Litter Landing	Permanent Recycling Units	Mobile Recycling Units	Landfill Appliance Collection	Paper Shredding Day	Public Education & Awareness	List of Existing Recyclers / Brokers	Com, Gov, Org Recycling	Industrial Recycling
District population	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677
Participating population	1,500	1,000	n/a	1,000	1,000	1,000	530	1,000	n/a	n/a	71,677	68,279	48,117	500	n/a	71,677	n/a	10,000	12,243
% Participation	2%	1%	n/a	1%	1%	1%	1%	1%	n/a	n/a	100%	95%	67%	1%	n/a	100%	n/a	14%	17%
Tonnage Recycled?	n/a	45	n/a	8	10	6	50	13	n/a	n/a	3,710	n/a	n/a	10	10	n/a	9,627	13,839	73,011
Waste Reducation Rate	n/a	0.05%	n/a	0.01%	0.01%	0.01%	0.05%	0.01%	n/a	n/a	3.79%	n/a	n/a	0.01%	0.01%	n/a	9.83%	14.13%	86.67%
PATICIPATION RANKING	2	2	1	2	2	2	2	2	1	1	3	3	3	2	1	3	1	3	3

COSTS CRITERIA	Spring Clean Up Day	Tire Collection Days / Landfill Collection	Don't Bag It / Backyard Composting	Christmas Tree Recycling	HHW Collection Day	Litter Landing HHW & Paint Collection	Electronics Collection Day	Litter Landing E- Collection	Adopt-a-Road Program	Litter Crew	Litter Landing	Permanent Recycling Units	Mobile Recycling Units	Landfill Appliance Collection	Paper Shredding Day	Public Education & Awareness	List of Existing Recyclers / Brokers	Com, Gov, Org Recycling	Industrial Recycling
Total cost to implement program (2010)	$4,912	$14,598	$300	$2,390	$16,368	$22,434	$5,856	$6,000	$1,161	$4,056	$330,194	$10,000	$10,000	$0	$2,500	$5,159	$300	$300	$300
Cost per participating person	$3.27	$14.60	n/a	$2.39	$16.37	$22.43	$11.05	$6.00	n/a	n/a	$4.61	$0.15	$0.21	$0.00	n/a	$0.07	n/a	$0.03	$0.02
Cost per tonnage of recyclable	n/a	$323.49	n/a	$297.91	$1,632.19	$3,728.47	$116.79	$460.24	n/a	n/a	$88.99	n/a	n/a	$0.00	$249.30	n/a	$0.03	$0.02	$0.00
Cost per pound of recyclable	n/a	0.16	n/a	$0.15	$0.82	$1.86	$0.06	$0.23	n/a	n/a	$0.04	n/a	n/a	$0.00	$0.12	n/a	$0.00	$0.00	$0.00
Future cost to implement program (2013)	$5,100	$15,300	$306	$1,530	$20,400	$30,600	$6,120	$6,120	$1,326	$4,488	$408,790	$10,200	$10,200	$0	$2,550	$5,916	$306	$306	$306
COST RANKING	3	2	3	3	2	2	3	3	3	3	1	2	2	3	3	3	3	3	3

SUMMATION	6	7	6	7	7	7	8	8	5	6	7	8	8	7	6	9	6	8	8

APPENDIX I

District Resolutions

RESOLUTION

April 22, 1999
Resolution No. 178-99

RE: DESIGNATION OF HANCOCK COUNTY SANITARY LANDFILL PURSUANT TO O.R.C. §343.013

The Board of Commissioners of Hancock County, Ohio (the "Board"), in their capacity as the Board of Directors of the Hancock County Solid Waste Management District (the "District"), met in regular session in the office of said Board on the **22nd** day of **April**, 1999 with the following members present: Mr. Stephen F. Oman, Mr. David W. Spahr, and Ms. Virginia R. Clymer.

Virginia R Clymer moved the adoption of the following RESOLUTION:

WHEREAS, Hancock County owns and operates the Hancock County Sanitary Landfill (the "Landfill") in order to provide for the safe and sanitary management of all solid waste generated within the District; and

WHEREAS, the District's 15-year solid waste management plan (the "Plan"), which was approved by the Director of Ohio EPA, is based upon the continued availability of the Landfill as the primary disposal facility for the District, and the Plan authorizes the Board to establish facility designations pursuant to Chapter 343 of the Ohio Revised Code; and

WHEREAS, Hancock County will incur substantial expenses for improvements relating to the vertical and horizontal expansion of the Landfill, and for equipment that is required to operate the Landfill; and

WHEREAS, on April 6, 1999, the Board approved the issuance of $362,182.00 of financing pursuant to Chapter 343 of the Ohio Revised Code for use in improving and operating the Landfill; and

WHEREAS, the Board finds that in order to assure the repayment of the debt incurred to improve and operate the Landfill, and to provide for the availability and utilization of the Landfill for the disposal of solid waste generated within the District in accordance with the District's approved solid waste management plan, the Landfill should be designated by the Board, pursuant to Section 343.013 of the Ohio Revised Code, as the solid waste facility where solid waste generated within the District shall be delivered for disposal unless the solid waste is delivered to a facility located outside the State of Ohio.

NOW THEREFORE, BE IT RESOLVED by the Board of Commissioners of Hancock County, Ohio, that the foregoing recitals be incorporated herein, and that:

Section 1. The Board, pursuant to Section 343.013 of the Ohio Revised Code, designates the Hancock County Sanitary Landfill, which is located at 10400 Allen Township Road 107,

Findlay, Ohio, as the only solid waste facility located within the State of Ohio where solid waste that is generated within the District's territorial jurisdiction shall be taken for transfer or disposal; provided, however, that nothing in this section shall prohibit any person from taking solid waste that is generated within the District's territorial jurisdiction to any solid waste facility that is located outside the State of Ohio.

Section 2. This Resolution shall go into effect immediately.

Section 3. The Board determines that this Resolution was adopted at an open meeting conducted in accordance with Ohio's Sunshine Law, Section 121.22 of the Ohio Revised Code.

Spahr seconded the motion and the roll being called upon its adoption, the vote resulted as follows: Mr. Oman, NO ; Mr. Spahr, Yes ; and Ms. Clymer Yes.

Hancock County Board of Commissioners

Virginia R Clymer

Virginia R. Clymer, Chairman

David W Spahr

David W. Spahr, Vice-Chairman

Stephen F Oman

Stephen F. Oman, Commissioner

ATTEST:

Cheryl Barnes

Cheryl Barnes, Clerk
Board of County Commissioners

Date: April 22, 1999

Auditor, Auditor-S. Filiater
Sanitary Landfill File

RESOLUTION

April 22, 1999
Resolution No. 179-99

RE: ADOPTION OF LOCAL RULES OF THE HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT

The Board of Commissioners of Hancock County, Ohio (the "Board"), in their capacity as the Board of Directors of the Hancock County Solid Waste Management District (the "District"), met in regular session in the office of said Board on the **22nd** day of **April**, 1999 with the following members present: Mr. Stephen F. Oman, Mr. David W. Spahr, and Ms. Virginia R. Clymer.

Virginia R. Clymer moved the adoption of the following RESOLUTION:

WHEREAS, on March 7, 1989, the Board established the Hancock County Solid Waste Management District pursuant to Chapter 343 of the Ohio Revised Code; and

WHEREAS, the District's 15-year solid waste management plan (the "Plan"), which was approved by the Director of Ohio EPA, authorizes the Board to adopt local rules in pursuant to Section 343.01(G)(1) through (G)(4) of the Ohio Revised Code; and

WHEREAS, the Board finds that it is necessary and appropriate to adopt the local rules set forth below in order to provide for the safe and sanitary management of solid waste generated within the District, and to accomplish the Board's objectives relating to the designation of the Hancock County Sanitary Landfill.

NOW THEREFORE, BE IT RESOLVED by the Board of Commissioners of Hancock County, Ohio, that the foregoing recitals are incorporated herein, and that:

Section 1. Pursuant to Section 343.01(G) of the Ohio Revised Code and the authority to adopt rules that is provided in the District's solid waste management plan, the Board adopts the following local rules of the Hancock County Solid Waste Management District:

RULE 1: DEFINITIONS

"Board" means the Board of Commissioners of Hancock County, acting in their capacity as the Board of Directors of the Hancock County Solid Waste Management District.

"District" means the Hancock County Solid Waste Management District.

"Person" means each individual, public, or private corporation, partnership, and each other form of entity, including a political subdivision or agency thereof.

"Plan" means the District's amended solid waste management plan.

"Landfill" means the Hancock County Sanitary Landfill, located at 10400 Allen Township Road 107, Findlay, Ohio.

"Solid Waste" shall have the same meaning as set forth in Chapter 3734 of the Ohio Revised Code.

RULE 2: REQUIREMENT FOR ALL SOLID WASTE TO BE DELIVERED TO THE HANCOCK COUNTY SANITARY LANDFILL

No Person shall deliver, or cause the delivery of, any Solid Waste generated within the District to any solid waste facility other than the Landfill, or a solid waste facility located outside the State of Ohio, unless a waiver has been granted by the Board pursuant to Section 343.01(I)(2) of the Ohio Revised Code. For the purpose of this rule, Solid Waste shall have the same meaning as set forth in Chapter 3734 of the Ohio Revised Code, but shall not include asbestos, yard waste, hazardous waste, or any other material which the Hancock County Engineer determines to be unacceptable for disposal at the Landfill.

RULE 3: REQUIREMENT FOR SUBMISSION AND APPROVAL OF PLANS FOR THE CONSTRUCTION OF SOLID WASTE FACILITIES

No Person shall commence the construction, enlargement or modification of any Solid Waste transfer, disposal, recycling or resource recovery facility until general plans and specifications for the proposed construction, enlargement or modification have been reviewed and approved by the Board as complying with the Plan. General plans and specifications submitted to the Board for review shall include all information necessary for the Board to evaluate whether the proposed construction, enlargement or modification complies with each of the criteria listed below. For the purpose of rule, "modification" includes a physical change or change in the method of operation of a solid waste facility, or the utilization of a legitimate recycling facility as a solid waste transfer facility. The Board may obtain the assistance of the Hancock County Engineer and other technical consultants for purposes of performing the review required by this rule. The Board shall approve the general plans and specifications if, after conducting the review, the Board determines that the proposed construction, enlargement or modification:

a. Is consistent with the goals, objectives, projections and strategies contained in the Plan; and

b. Will not adversely affect financing for the implementation of the Plan; and

c. Will not adversely affect achievement of the Board's specific objectives for designating the Landfill, including, but not limited to, promoting the maximum feasible utilization of the Landfill for the purpose of paying outstanding debt obligations and other expenses of the Landfill; and

d. Will be installed, operated and maintained to be harmonious and appropriate in appearance with the existing or intended character of the area; and

e. Will be served adequately by essential public facilities and services; and

f. Will not create excessive additional requirements at public cost for public facilities or services, and will not be detrimental to the economic welfare of the community; and

g. Will not involve the excessive production of traffic, noise, smoke, fumes, or odors; and

h. Will have vehicular approaches to the property that are designed not to create an interference with traffic; and

i. Will not result in the destruction, loss or damage of a natural, scenic, or historic feature of major importance.

To the extent that any of the criteria identified in Rule 3(a) through (i), above, establish a design standard that is addressed by rules of the Ohio Environmental Protection Agency for the issuance of a solid waste facility construction permit, the Board shall exclude those criteria from the Board's review and determination pursuant to this Rule.

Section 2. The rules set forth in Section 1, above, shall become effective on April 30, 1999.

Section 3. The Clerk shall cause the rules set forth in Section 1, above, to be published once in the Findlay Courier, a newspaper of general circulation in Hancock County, Ohio, on or before April 30, 1999.

Section 4. The Board determines that this Resolution was adopted at an open meeting conducted in accordance with Ohio's Sunshine Law, Section 121.22 of the Ohio Revised Code.

Spahr seconded the motion and the roll being called upon its adoption, the vote resulted as follows: Mr. Oman, No; Mr. Spahr, Yes; and Ms. Clymer Yes.

Hancock County Board of Commissioners

Virginia R. Clymer

Virginia R. Clymer, Chairman

David W. Spahr

David W. Spahr, Vice-Chairman

Stephen F. Oman

Stephen F. Oman, Commissioner

ATTEST:

Cheryl L. Barnes

Cheryl Barnes, Clerk
Board of County Commissioners

Date: April 22, 1999

Auditor
Auditor - S. Filiater
Sanitary Landfill File

RESOLUTION

April 29, 1999
Resolution No. 186 **-99**

RE: INTENT TO DESIGNATE THE HANCOCK COUNTY SANITARY LANDFILL O.R.C. §343.014

The Board of County Commissioners, Hancock County, Ohio (the "Board"), in their capacity as the Board of Directors of the Hancock County Solid Waste Management District (the "District"), met in regular session in the office of said Board on the 29th day of April, 1999 with the following commissioners present:

Virginia Clymer, David Spahr, and _____.

Virginia R Clymer moved for the adoption of the following resolution:

WHEREAS, Hancock County owns and operates the Hancock County Sanitary Landfill ("Landfill") in order to provide for the safe and sanitary management of all solid waste generated within the district; and

WHEREAS, the District's 15-year solid waste management plan (the "plan"), which was approved by the Director of Ohio EPA, is based upon the continued availability of the landfill as the primary disposal facility for the District, and the Plan authorizes the Board to establish facility designations pursuant to Chapter 343 of the Ohio Revised Code; and

WHEREAS, Hancock County will incur substantial expenses for improvements relating to the vertical and horizontal expansion of the Landfill, and for equipment that is required to operate the Landfill, and the Board has authorized the issuance of public debt to purchase such equipment; and

WHEREAS, on April 22, 1999, the Board adopted Resolution No. 178-99, which designates the Landfill pursuant to 343.013 of the Ohio Revised Code as the only solid waste facility that is authorized to receive solid waste generated within the District unless such solid waste is delivered to a solid waste facility located outside the State of Ohio; and

WHEREAS, the Board's designation of the Landfill on April 22, 1999, will terminate with the retirement of the public indebtedness incurred by the Board to purchase equipment for the Landfill, and the Board has determined that it will be necessary to continue the Landfill's designation beyond the time that such public indebtedness is retired; and

WHEREAS, the Board finds that in order to provide for the long-term availability and utilization of the Landfill for the disposal of solid waste generated within the District in accordance with the District's approved solid waste management plan, the Landfill should be designated by the Board pursuant to Section 343.014 of the Ohio Revised Code, as the solid wste

facility where solid waste generated within the District shall be delivered for disposal unless the solid waste is delivered to a facility located outside the State of Ohio.

NOW THEREFORE BE IT RESOLVED by the Board of Commissioners of Hancock Count, Ohio, that the foregoing recitals be incorporated herein, and that:

Section 1. The Board intends to designates the Hancock County Sanitary Landfill, which is located at 10400 Allen Township Road 107, Findlay, Ohio, as the only solid waste facility located within the State of Ohio where solid waste that is generated within the District's territorial jurisdiction shall be taken for transfer or disposal, unless such solid waste is delivered to a solid waste facility that is located outside of the State of Ohio.

Section 2. A public hearing shall be held concerning this Resolution of Intent To Designate on ~~May 27~~ June 8, 1999, at 10:00 a.m., at the offices of the Hancock County Commissioners, Hancock County Courthouse, 300 South Main Street, Findlay, Ohio 45840.

Section 3. The Clerk shall cause public notice of the adoption of this Resolution of Intent to Designate, and of the date, time and location of the public hearing to consider the proposed designation of the Hancock Sanitary Landfill, to be published in the Findlay Courier, a newspaper of general circulation within Hancock County, Ohio.

Section 4. The Clerk shall cause notice of this Resolution Of Intent To Designate, a description of the type and scope of services subject to the proposed designation, and the date, time and location of the public hearing relating thereto, to be mailed to:

a. fifty industrial, commercial, and institutional generators of solid wastes within the district that generate the largest quantities of solid wastes, as determined by the Board, and to their local trade associations;

b. the legislative authority of each municipal corporation and township within the District; and

c. the Director of Ohio EPA.

Section 5. The Board determines that this Resolution was adopted at an open meeting

conducted in accordance with Ohio's Sunshine Law, Section 121.22 of the Ohio Revised Code.

Spahr seconded the motion and the roll being called upon its adoption, the vote resulted as follows:

Hancock County Board of Commissioners

Virginia R Clymer Yes
Virginia R. Clymer, Chairman

David W Spahr Yes
David W. Spahr, Vice-Chairman

ABSENT
Stephen F. Oman, Commissioner

ATTEST:

Cheryl L. Barnes
Cheryl Barnes, Clerk
Board of Hancock County Commissioners

Date: April 29, 1999

Auditor
Auditor - S. Filiater
K.C. Collette
Sanitary Landfill
Sanitary Landfill File ✓