
Section X Alternate Analysis

A. Introduction

During the course of updating the Mahoning Solid Waste District Solid Waste Management Plan it became evident that there is an inherent degree of uncertainty surrounding the industrial sector solid waste generation. In the interest of District financial stability a planning approach was selected that provided a conservative estimation of District revenues. This same approach provided a demonstration of access to landfill capacity that assumes the low end of needed landfill capacity. In an effort to clearly demonstrate that the District has access to sufficient landfill capacity (under a worst case scenario) and to present an optimistic view of potential District revenues, this alternate analysis has been added to supplement the conclusions of the plan.

The explanation of industrial waste generation estimation methodologies in Section IV.B discusses the difference between the two industrial waste estimation methods. Assuming both methods have merit, there is an indication that there is approximately 80,000 tons of possibly unaccounted recycling and/or source reduction occurring in the industrial sector. The body of the Solid Waste Management Plan was prepared using the Recycling plus Disposal Method. With the reference year's (2003) industrial Recycling and Industrial landfilling as the basis for the total industrial waste generation. Industrial Waste generation projections are presumed to follow established employment projections in accordance with standard solid waste planning protocol. The body of the report follows prescribed "Recycling plus Disposal" format calculations where "landfilling" equals "waste generation" minus "recycling". Therefore as industrial recycling increases industrial landfilling will decrease accordingly by following common solid waste management planning practice.

As discussed in earlier under the Waste Assessment Program in Section V. E the Scrap Metal Dealers Ordinance was implemented by the District in an attempt to capture recycling numbers that appeared to be going non-reported. The scrap metal dealers ordinance requires all dealers in the City of Youngstown to report both industrial and residential scrap metal recycling. Projecting initial scrap dealer reported data from the fall of 2005 to a full year indicates that as much as 140,000 tons per year of scrap metal recycling may have been going unreported. Because the level of actual annual scrap metal recycling is unknown, for planning purpose the total projected recycled tonnage is presumed not to occur until 17 years into the planning period. This assures planning projections in the near future are not skewed based on possible erroneous indication of the statistically insignificant level of scrap metal recycling data. As the District continues to collect and acquire a firm history of scrap metal recycling firm estimates can be made. But, for now the body of the plan assumes a 5% increase per year for both Industrial and residential/commercial brokers to account for the perceived increase in recycling as projected in Tables V-5 and V-6.

As described in Section IV. G the "Recycling plus Disposal Method" is used by the plan following prescribed calculation as detailed in Format version 3.0. Total industrial waste generation declines over the planning period proportional to the published projections of industrial employment decline. Since Disposal equals generation minus recycling, and the scrap metal dealers ordinance is producing increased recycling tonnage, this scrap metal recycling is driving down the quantity of industrial waste going to landfill over the course of the planning period. However, the scrap metal dealers ordinance is not requiring, promoting, nor doing anything to encourage more recycling. It simply requires the data to be reported to the District. Since this recycling activity is presumed to have also occurred in the reference year, just not reported, these values would more realistically add to generation total and not have any affect on the amount going to landfill.

Following prescribed protocol may actually be under estimating the total amount of District waste going to landfill and therefore overestimate the years of landfill capacity available and underestimate revenues received by the District. As an alternate analysis this Section re-analyzes the available landfill capacity and District Revenues based on the assumption that industrial landfilling will not decline as industrial recycling increases. Conservatively the industrial landfilling tonnage is assumed to remain constant based on the values calculated for the year 2005. This approach presented herein Section X provides a conservative demonstration of access to landfill capacity and a potential upper level of revenues the District may realize over the planning period. The approach of Sections VI through VIII presents a conservative approach toward District revenues and likely underestimates the needed landfill capacity.

B. Alternate VI - DISTRICT METHODS FOR MANAGEMENT OF SOLID WASTE

1. Calculation of Capacity Needs Based upon Waste Generation

Alternate information regarding solid waste management landfilling used in the District for the total solid waste generated in 2003 and the projected waste generation quantities for the 17-year planning period are provided in Table VI-1Alt.

Residential/Commercial Solid Waste

Table VI-2Alt provides the solid waste management methods used in the District for residential/commercial solid waste for the baseline year and projected 17-year planning period up to 2022. As presented in Table V- 5 residential/commercial sector recycling increases by 4,136 tons in 2005 which is directly from 3 months of scrap metal dealer data reported in 2005. The recycling from brokers are projected to increase at 5% per year. These increases are attributable directly to the increase anticipated from the scrap metal dealers ordinance. The increases in residential/commercial brokers plus industrial broker recycling totals approximately 95,000 tons which is the anticipated impact of the scrap metal dealers ordinance.

Industrial Solid Waste

Table VI-3 Alt provides an alternate analysis of industrial solid waste management particularly with regard to landfilling used in the District for industrial solid waste for the projected 17-year planning period. The recycling from industrial brokers is projected to increase at 5% per year. These increases are attributable directly to the increase anticipated from the scrap metal dealers ordinance. The increases in residential/commercial brokers plus industrial broker recycling totals approximately 95,000 tons which is the anticipated impact of the scrap metal dealers ordinance.

Recycling and disposal values are presented and summed to establish future industrial generation. For 2006 and beyond it is assumed that industrial landfilling will remain constant. The 80,934 tons of industrial landfilling established in 2005 is held constant throughout the remainder of the planning period. This landfilling is added to the projected recycling, which is increasing due to the projection for the scrap metal dealers program, to establish the industrial waste generation.

C. Alternate DEMONSTRATION OF ACCESS TO CAPACITY

The District's future needs for additional disposal capacity are predicated upon the projections for solid waste generation, recycling activities, waste minimization activities and disposal restrictions as discussed in Section III and Section X. These projections were used in Table VI-1 to calculate the aggregate quantities of in-District solid waste, which must be disposed of in solid waste facilities during the plan period 2006 - 2022.

The District's future needs for additional disposal capacity are based upon the projections for

solid waste generation, recycling activities, waste minimization activities and disposal restrictions as discussed in Section V. These projections were used to calculate the aggregate quantities of in-District solid waste, which must be disposed of in solid waste facilities during the plan period, 2006 - 2022. As identified in Table VI-4 Alt, the District alternate analysis is projecting disposal of approximately 338,855 to 273,880 tons of District generated solid waste annually in Mahoning County landfills over the course of the planning period.

Table VI-4 Alt demonstrates the landfills that the District anticipates using throughout the planning period. As demonstrated in Table VI-4 Alt, in-district landfill capacity is available for disposal of district generated waste throughout the planning period. This is the case even with the assumption that the AWS Mahoning Landfill facility will cease operations.

D. Alternate Section VIII FUNDING MECHANISMS AND AMOUNT OF MONEY GENERATED

Table VIII-1 Alt through VIII-8 Alt are identical to the tables in section VIII with the exception of the in-district waste going to landfill, which has been calculated in the manner discussed above. The increased in-district waste increases the overall revenue generated by the District. In the near term the impact of the alternate analysis is relatively small. By 2011, five years into the planning period, the cumulative balance is approximately 12% higher than the estimate in section VIII. But, by the end of the planning period the cumulative ending balance is \$1.194M which is substantially higher than \$0.265M balance projected by the original method.

MAHONING COUNTY SOLID WASTE MANAGEMENT DISTRICT
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TABLE VI-1 Alt.
WASTE MANAGEMENT METHODS AND REQUIRED PROCESSING CAPACITY

YEAR	TONS OF SW GENERATED Table V-4 (incl. Exempt)	Alternate TONS OF SW Generated	TONS SOURCE REDUCED Table V-5 Table V-6	NET TONS TO BE MANAGED BY SWMD	MANAGEMENT METHOD USED & PROCESSING CAPACITY REQUIRED						
					RECYCLING ¹	TRANSFER ²	YARD WASTE COMPOSTING ³	YW LAND APPLICATION	INCINERATION ⁴	MSW COMPOSTING	LANDFILLING
					TPY	TPY	TPY	TPY	TPY	TPY	TPY
2003	430,983	430,983	0	430,983	71,165	0	16,980	0	0	0	342,838
2004	432,416	432,416	0	432,416	76,728	0	5,076	0	0	0	350,612
2005	431,588	431,588	0	431,588	76,028	0	6,076	0	0	0	349,484
2006	428,927	437,367	0	437,367	92,102	0	6,752	0	0	0	338,513
2007	426,297	439,894	0	439,894	97,955	0	8,007	0	0	0	333,932
2008	423,696	442,639	0	442,639	104,899	0	8,476	0	0	0	329,264
2009	421,122	445,618	0	445,618	111,367	0	9,057	0	0	0	325,194
2010	418,576	448,848	0	448,848	118,161	0	9,301	0	0	0	321,386
2011	416,615	452,908	0	452,908	125,302	0	9,589	0	0	0	318,017
2012	414,683	457,260	0	457,260	132,812	0	9,877	0	0	0	314,571
2013	412,778	461,925	0	461,925	140,717	0	10,173	0	0	0	311,036
2014	410,900	466,926	0	466,926	149,041	0	10,478	0	0	0	307,407
2015	409,048	472,287	0	472,287	157,813	0	10,793	0	0	0	303,682
2016	406,920	477,731	0	477,731	167,063	0	11,116	0	0	0	299,553
2017	404,813	483,587	0	483,587	176,821	0	11,450	0	0	0	295,316
2018	402,729	489,882	0	489,882	187,122	0	11,793	0	0	0	290,967
2019	400,666	496,650	0	496,650	198,002	0	12,147	0	0	0	286,501
2020	398,624	503,923	0	503,923	209,498	0	12,512	0	0	0	281,913
2021	397,365	512,502	0	512,502	221,653	0	12,887	0	0	0	277,962
2022	396,128	521,663	0	521,663	234,510	0	13,274	0	0	0	273,880

Sample Calculations:

1. "Recycling" taken from Tables V-5 and V-6.
2. "Transfer" projected at percent of total generation.
3. "Yard Waste" taken from Table V-5.
4. "Incineration" projected at percent of total generation.
5. "Alternate Tons of SW Generated" from Table VI-2 + Table VI-3 Alt. + Table V-4 (exempt)

Total Waste to Landfill (2006-2022) = 5,209,093

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TABLE VI-3 Alt
SUMMARY FOR INDUSTRIAL WASTE MANAGEMENT METHODS

YEAR	TONS OF SW GENERATED ⁵ Table V-4 (less exempt)	MANAGEMENT METHOD USED & PROCESSING CAPACITY REQUIRED				
		SOURCE REDUCTION & RECYCLING ¹	INCINERATION ²	COMPOSTING	LANDFILLING ³	ASH DISPOSAL ⁴
		TPY	TPY	TPY	TPY	TPY
2003	130,642	51,775	0	0	78,867	0
2004	128,623	51,535	0	0	77,088	0
2005	126,646	45,712	0	0	80,934	0
2006	133,149	52,215	0	0	80,934	0
2007	136,410	55,476	0	0	80,934	0
2008	139,899	58,965	0	0	80,934	0
2009	143,632	62,699	0	0	80,934	0
2010	147,627	66,693	0	0	80,934	0
2011	151,901	70,967	0	0	80,934	0
2012	156,475	75,541	0	0	80,934	0
2013	161,368	80,434	0	0	80,934	0
2014	166,604	85,670	0	0	80,934	0
2015	172,207	91,273	0	0	80,934	0
2016	178,202	97,268	0	0	80,934	0
2017	184,616	103,682	0	0	80,934	0
2018	191,480	110,546	0	0	80,934	0
2019	198,823	117,889	0	0	80,934	0
2020	206,681	125,747	0	0	80,934	0
2021	215,089	134,155	0	0	80,934	0
2022	224,086	143,152	0	0	80,934	0

Sample Calculations:

1. "Recycling" taken from Table V-6.
2. "Incineration" projected at percent of total generation.
3. Beginning in 2005 "Landfilling" is assumed to remain constant throughout the planning period.
4. "Ash Disposal" projected at 0.5% decrease per year.
5. Generation equals Disposal + Recycling 2006: 80,934 (landfilling)+ 0 (incineration) + 0 (Composting) + 52,215 (Recycling) = 133,149 tons

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TABLE VI-4 Alt
WASTE MANAGEMENT METHODS TO BE USED BY THE DISTRICT: LANDFILL AND TRANSFER STATIONS**

FACILITIES USED BY THE DISTRICT NAME AND LOCATION	PROCESSING CAPACITY (TPD)	Tons for waste Placement	Air Space Gross Volume (CY)	YEARS	2003%	TONS OF DISTRICT SOLID WASTE MANAGED BY EACH FACILITY ^{1,2}																			
						2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
BFI CARBON LIMESTONE LANDFILL Browning-Ferris Industries of Ohio, Inc Carbon-Limestone Sanitary Landfill 8100 South State Line Road Lowellville, OH 44514	6,500	31,318,858	39,727,091	20.9	51.0%	174,904	198,323	190,049	184,083	181,592	194,138	191,739	189,494	187,507	185,475	183,391	306,502	302,788	298,671	294,447	290,111	285,658	281,084	277,143	273,074
AWS MAHONING LANDFILL American Waste Services, Inc Mahoning Landfill, Inc. 3510 Garfield Road New Springfield, OH 44443	2,500	3,497,479	5,323,408	10.5	40.7%	139,687	142,938	142,395	137,925	136,058	134,156	132,498	130,947	129,574	128,170	126,729	-	-	-	-	-	-	-	-	-
CENTRAL WASTES LANDFILL Central Wastes, Inc. 12003 Oyster Rd Alliance, OH 44601	3,000	140,780	192,323	0.8	3.1%	10,591	4,887	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AMERICAN LANDFILL American Waste Services, Inc American Landfill, Inc. 7916 Chapel Street, SE Waynesburg, OH 44688	15,000	6,303,352	8,754,655	3.9	4.6%	15,707	1,760	16,011	15,509	15,299	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AWS AMERICAN TIRE MONOFILL American Waste Services, Inc The American Tire Monofil 7916 Chapel Street, SE Waynesburg, OH 44688	492	529,893	1,682,199	74	0.11%	385	695	392	380	375	370	365	361	357	353	349	345	341	336	332	327	322	317	312	308
RW COUNTYWIDE LANDFILL Countywide Recycling and Disposal Facility 3619 Gracemont Avenue, SW East Sparta, OH 44626	7,000	53,530,821	71,374,428	38.8	0.09%	322	288	328	318	314	309	305	302	299	295	292	289	285	281	277	273	269	265	261	257
KIMBLE SANITARY LANDFILL Kimble Clay and Limestone Kimble Sanitary Landfill 3696 State Route 39, NW Dover, OH 44622	5,000	27,521,517	45,607,085	92.3	0.01%	23	105	23	23	22	22	22	22	21	21	21	21	20	20	20	20	19	19	19	18
SUBURBAN SOUTH R&D FACILITY LANDFILL Waste Management of North America, Inc. Suburban South Recycling and Disposal Facility State Route 668 P.O. Box 17 Brownsville, OH 43721	5,000	14,256,788	16,197,862	23.5	0.01%	32	83	33	32	31	31	30	30	30	29	29	29	28	28	28	27	27	26	26	26
LIBERTY TIRE / C&E COAL TIRE PROJECT 14864 Lincoln Street SE Minerva, OH 44657	500	5,178.70	9,086	0.2	0.27%	940	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EVERGREEN R&D LANDFILL Waste Management of Ohio, Inc. Evergreen Recycling and Disposal Facility 2625 East Broadway Northwood, OH 43619	7,500	6,374,596	11,380,159	14.1	0.07%	247	129	252	244	241	237	234	232	229	227	224	221	219	216	213	210	206	203	200	197
Waste Management of PA, Inc. Lake View Landfill 851 Robinson Road East Erie, PA 16509	5,000	2,279,707	2,279,707	1.6	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WMX Technologies, Inc. (Formerly Waste Management, Inc.) Northwest Sanitary Landfill, Inc. P.O. Box 1798-1436 W. Sunbury Rd Butler, PA 16002-1798 W. Sunbury, PA 16061	2,500	2,418,452	2,845,238	3.72	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rumpke Waste, Inc. Sanitary Landfill 9427 Bayers Road Georgetown, OH 45121	2,500	727,000	1,513,000	4.7	0%	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rumpke Sanitary Landfill, Inc 10795 Hughes Road Cincinnati, OH 45251	8,600	8,345,982	10,097,982	4.4	0%	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Browning-Ferris Industries of PA, Inc Imperial Sanitary Landfill P.O. Box 47 11 Boggs Road Imperial, PA 15126	4,666	18,753,422	27,700,771	21.5	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Browning-Ferris Industries of OH, Inc Willowcreek Sanitary Landfill 1187 State Route 225 Atwater, OH 44201				Closed	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seneca Landfill P.O. Box 1080 Mars, PA 44201	3,000	12047620	7,300,857	7.8	0%	0	0																		
Browning-Ferris Industries of PA, Inc Greentree Sanitary Landfill 635 Toby Road Kersey, PA	6,000	12,480,045	16,964,944	6.5	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stericycle Inc. (Browning-Ferris Industries Medical Waste Systems, Inc.) Warren Medical Waste 1901 Pine Avenue, SE Warren, OH					0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max Disposal and Recycling 1356 Harrisburg Road P.O. Box 2688 Alliance, OH 44601-0688					0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
American Waste Services, Inc East Liverpool Landfill 44295 Y&O Road Madison Township, OH 43968				Closed	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
American Landfill (American Waste Services, Inc.) The American Waste Processing Facility 7916 Chapel Street, SE Waynesburg, OH 44688					0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Athens-Hocking Reclamation Cente P.O. Box 946 Logan, OH 43138	2,500	13,077,600	16,347,000	75.8	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Doherty Sanitary Landfill, Inc. (aka Geneva Landfill) 2581 Tuttle Road Geneva, OH 44041	2,100	1,414,287	2,244,900	3.9	0%	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**MAHONING COUNTY SOLID WASTE MANAGEMENT DISTRICT
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TABLE VI-4 Alt
WASTE MANAGEMENT METHODS TO BE USED BY THE DISTRICT: LANDFILL AND TRANSFER STATIONS**

FACILITIES USED BY THE DISTRICT NAME AND LOCATION	PROCESSING CAPACITY (TPD)	Tons for waste Placement	Air Space Gross Volume (CY)	YEARS	2003%	TONS OF DISTRICT SOLID WASTE MANAGED BY EACH FACILITY ^{1,2}																			
						2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
County Environmental Wyandot Landfil 11164 County Road 4 Carey, OH 43316	3,500	18,412,680	23,606,000	54.2	0%	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pine Grove Regional Facility Landfil 5131 Drinkle Rd SW Amanda, OH 43102	5,000	12,517,810	20,263,017	43.7	0%	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
District Totals						342,838	349,314	349,484	338,513	333,932	329,264	325,194	321,386	318,017	314,571	311,036	307,407	303,682	299,553	295,316	290,967	286,501	281,913	277,962	273,880

1. The 2003 value was taken from Table 14 of the 2003 FDR report. The value includes Asbestos, General, Industrial, Exempt and Other waste.
2. The 2004 values are from the Ohio EPA Annual District Report Form for 2004.

District Waste Landfilled In-District	325,182	346,149	332,444	322,008	317,650	328,294	324,237	320,441	317,081	313,645	310,120	306,502	302,788	298,671	294,447	290,111	285,658	281,084	277,143	273,074
District Waste Landfilled Projection from Table VI-1	342,838	350,612	349,484	338,513	333,932	329,264	325,194	321,386	318,017	314,571	311,036	307,407	303,682	299,553	295,316	290,967	286,501	281,913	277,962	273,880

FACILITIES USED BY THE DISTRICT NAME AND LOCATION	PROCESSING CAPACITY (TPD)	Tons for waste Placement	Air Space Gross Volume (CY)	YEARS	2003%	TONS OF DISTRICT SOLID WASTE MANAGED BY EACH FACILITY ¹																			
						2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Rumpke Waste, Inc. Circleville Transfer Station 21955 Hassel Drive Circleville, OH 43113	114,259	112,502	NA	NA	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R.C. Miller Refuse Service, Inc Stark Recycling Center, Inc. /Transfer Station 1800 9th Street, NE Canton, OH			NA	NA	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste Management of Ohio-Akron Akron Central Transfer Station 389 Fountain Street Akron, OH 44306	301,294	2,897,510	NA	NA	0%	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Waste Logistics (aka. LAS Resource / Recovery, Inc.) 1025 Bundy Road Youngstown, OH 44509	19,623	19,623	NA	NA	4.1244%	14,140	9,985	14,414	13,962	13,773	13,580	13,412	13,255	13,116	12,974	12,828	12,679	12,525	12,355	12,180	12,001	11,816	11,627	11,464	11,296
Cleveland Transfer / Recycling Station 7450 Oakleaf Road Oakwood Village, OH 44146 (440) 786-1300	362,306	334,850	NA	NA	0.0044%	15	16	15	15	15	14	14	14	14	14	14	13	13	13	13	13	13	12	12	12
Kimble Transfer and Recycling Station 2295 Bolivar Road SW Canton, OH 44706 (330) 454-9400	85,348	19,192	NA	NA	0.0023%	8	96	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	6	6	6
Warren Recycling Inc. / Warren Hills LLC 300 Martin Luther King Warren, Ohio	119,848	119,848	NA	NA	0.9255%	3,173	5,307	3,235	3,133	3,091	3,047	3,010	2,974	2,943	2,911	2,879	2,845	2,811	2,772	2,733	2,693	2,652	2,609	2,573	2,535

**MAHONING COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN
SECTION X
TABLE VIII-1 Alt
PROJECTED DISPOSAL FEE SCHEDULE AND REVENUES**

YEAR	Fee Schedule				Tons Disposed in District				Total Disposal Fee Revenue (\$)
	In-District	Out-of-District	Cuyahoga County	Out-of-State	In-District	Out-of-District	Cuyahoga County	Out-of-State	
2003*	\$1.50	\$3.00	\$1.50	\$1.50	323,068	409,172	68,742	1,177,322	\$3,581,216
2004*	\$1.50	\$3.00	\$1.50	\$1.50	341,781	379,940	71,261	1,057,180	\$3,345,152
2005*	\$1.50	\$3.00	\$1.50	\$1.50	335,815	314,440	69,573	1,026,666	\$3,091,400
2006	\$1.50	\$3.00	\$1.50	\$1.50	338,513	308,151	69,859	1,156,666	\$3,272,010
2007	\$1.50	\$3.00	\$1.50	\$1.50	333,932	301,988	69,859	1,182,666	\$3,285,649
2008	\$1.50	\$3.00	\$1.50	\$1.50	329,264	295,949	69,859	1,208,666	\$3,299,527
2009	\$1.50	\$3.00	\$1.50	\$1.50	325,194	290,030	69,859	1,220,752	\$3,293,796
2010	\$1.50	\$3.00	\$1.50	\$1.50	321,386	284,229	69,859	1,232,960	\$3,288,994
2011	\$1.50	\$3.00	\$1.50	\$1.50	318,017	278,544	69,859	1,245,289	\$3,285,380
2012	\$1.50	\$3.00	\$1.50	\$1.50	314,571	272,973	69,859	1,257,742	\$3,282,178
2013	\$1.50	\$3.00	\$1.50	\$1.50	311,036	267,514	69,859	1,270,320	\$3,279,363
2014	\$1.50	\$3.00	\$1.50	\$1.50	307,407	262,164	69,859	1,283,023	\$3,276,924
2015	\$1.50	\$3.00	\$1.50	\$1.50	303,682	256,920	69,859	1,295,853	\$3,274,851
2016	\$1.50	\$3.00	\$1.50	\$1.50	299,553	251,782	69,859	1,308,812	\$3,272,680
2017	\$1.50	\$3.00	\$1.50	\$1.50	295,316	246,746	69,859	1,321,900	\$3,270,851
2018	\$1.50	\$3.00	\$1.50	\$1.50	290,967	241,811	69,859	1,335,119	\$3,269,351
2019	\$1.50	\$3.00	\$1.50	\$1.50	286,501	236,975	69,859	1,348,470	\$3,268,170
2020	\$1.50	\$3.00	\$1.50	\$1.50	281,913	232,236	69,859	1,361,955	\$3,267,297
2021	\$1.50	\$3.00	\$1.50	\$1.50	277,962	227,591	69,859	1,375,574	\$3,267,865
2022	\$1.50	\$3.00	\$1.50	\$1.50	273,880	223,039	69,859	1,389,330	\$3,268,720

*Calculations: Actual values Tons Disposed for years 2003, 2004, 2005 are taken from The Mahoning County SWMD quarterly revenue/expenditure report to the Ohio EPA.

In-District - Waste Disposal (beyond 2005) is from Table VI-4A projection of Mahoning County waste disposed to In-District Landfills (Carbon Limestone, AWS Mahoning, and Central Waste).

Out-Of-District - Out of District Waste projected to decline 2% per year consistent with State-wide trend.

Cuyahoga County - Waste projected to be consistent with recent trend. Average value from 2000-2003 utilized throughout the planning period.

Out-of State: 2006 anticipates a 130,000 ton increase (500 TPD x 260 days) in out-of-state waste based on 2005 amendment to original local host agreement with BFI (now Allied Waste). 2007 and 2008 each anticipate a 26,000 ton increase (100 TPD x 260 days) per same amendment .

Host agreement allows up to a 500 TPD increase in long haul waste in 2006, plus an additional 100 TPD of long haul waste in each of the next two years of the agreement.

From 2009 through the planning period projects out at a one (1) percent increase for out-of-state waste consistent with Statewide trend (1999-2003) of increased out-of-state "Amount of Solid Waste Received at Ohio Landfills and Incinerators:1984-2003 by point of Origin (In State and Out-of-State)

The original agreement dated March 29, 1991 between BFI and Mahoning County gaurantees "sufficient daily disposal space at the Carbon Linmeston Landfill to gaurantee and hereby does gaurantee the disposal of all legally landfillable waste ... generated within Mahoning County for the life of the landfill" (refer to Appendix G)

**MAHONING COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN
SECTION X
TABLE VIII-3 Alt
SUMMARY OF PROJECTED REVENUE GENERATED**

YEAR	Type of Revenue Mechanism and Amount Generated					Total Revenue Generated
	District Disposal Fees	Generation Fee	Recycling/Litter Prevention ODNR Grant*	USDA RREAP Grant*	BFI Recycling Contract	
2003*	\$3,581,216	\$0	\$84,900	\$74,000	\$900,000	\$3,740,116
2004*	\$3,345,152	\$0	\$84,900	\$74,000	\$900,000	\$3,504,052
2005	\$3,091,400	\$0	\$67,920	\$0	\$900,000	\$3,159,320
2006	\$3,272,010	\$0	\$0	\$0	\$900,000	\$3,272,010
2007	\$3,285,649	\$0	\$0	\$0	\$900,000	\$3,285,649
2008	\$3,299,527	\$0	\$0	\$0	\$900,000	\$3,299,527
2009	\$3,293,796	\$0	\$0	\$0	\$900,000	\$3,293,796
2010	\$3,288,994	\$0	\$0	\$0	\$900,000	\$3,288,994
2011	\$3,285,380	\$0	\$0	\$0	\$900,000	\$3,285,380
2012	\$3,282,178	\$0	\$0	\$0	\$900,000	\$3,282,178
2013	\$3,279,363	\$0	\$0	\$0	\$900,000	\$3,279,363
2014	\$3,276,924	\$0	\$0	\$0	\$900,000	\$3,276,924
2015	\$3,274,851	\$0	\$0	\$0	\$900,000	\$3,274,851
2016	\$3,272,680	\$0	\$0	\$0	\$900,000	\$3,272,680
2017	\$3,270,851	\$0	\$0	\$0	\$900,000	\$3,270,851
2018	\$3,269,351	\$0	\$0	\$0	\$900,000	\$3,269,351
2019	\$3,268,170	\$0	\$0	\$0	\$900,000	\$3,268,170
2020	\$3,267,297	\$0	\$0	\$0	\$900,000	\$3,267,297
2021	\$3,267,865	\$0	\$0	\$0	\$900,000	\$3,267,865
2022	\$3,268,720	\$0	\$0	\$0	\$900,000	\$3,268,720

The BFI recycling contract is valued at \$900,000. This value is shown on this table, however, it is not included in the total revenues generated column.

The recycling contract is for curbside services provided to participating townships and municipalities. The District does not pay for the curbside services for this contract. Therefore the amount of \$900,000 is not an actual revenue for expenditures.

* The District listed the amount of grant monies to show other sources of income. It is the intention of the District to apply for and procure as many grants available provided they are solid waste oriented. However, it should be noted that the grants received by the District carry no guarantee in length and therefore are subject to modification. Therefore the future grant monies are presumed to be \$0.

MAHONING COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN
SECTION X
TABLE VIII-5 AIt
EXPENDITURE of REVENUE from FEES

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1. Plan Monitoring/Prep																				
a. District Staff & Legal	\$ 117,574	\$ 179,858	\$ 103,527	\$ 106,633	\$ 80,233	\$ 82,640	\$ 85,119	\$ 87,673	\$ 90,303	\$ 93,012	\$ 95,802	\$ 98,676	\$ 101,637	\$ 104,686	\$ 107,826	\$ 111,061	\$ 114,393	\$ 117,825	\$ 121,359	\$ 125,000
b. Consultant Cost		\$ 73,182	\$ 25,358	\$ 50,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000
c. Other																				
Subtotal	\$ 117,574	\$ 253,040	\$ 128,885	\$ 156,633	\$ 90,233	\$ 92,640	\$ 95,119	\$ 137,673	\$ 100,303	\$ 103,012	\$ 105,802	\$ 108,676	\$ 151,637	\$ 114,686	\$ 117,826	\$ 121,061	\$ 124,393	\$ 127,825	\$ 131,359	\$ 135,000
2. Plan Implementation																				
a. District Administration																				
Personnel	\$ 408,642	\$ 445,179	\$ 449,922	\$ 463,420	\$ 401,820	\$ 413,874	\$ 426,290	\$ 439,079	\$ 452,252	\$ 465,819	\$ 479,794	\$ 494,187	\$ 509,013	\$ 524,284	\$ 540,012	\$ 556,212	\$ 572,899	\$ 590,086	\$ 607,788	\$ 626,022
Office Overhead	\$ 335,749	\$ 260,118	\$ 195,654	\$ 243,160	\$ 245,592	\$ 248,048	\$ 250,528	\$ 253,033	\$ 255,564	\$ 258,119	\$ 260,700	\$ 263,307	\$ 265,941	\$ 268,600	\$ 271,286	\$ 273,999	\$ 276,739	\$ 279,506	\$ 282,301	\$ 285,124
Legal Fees				\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000
b. Facility Operation																				
District Headquarters	\$ -	\$ -	\$ -	\$ -	\$ 900,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
MRF																				
Landfill																				
Compost																				
Transfer																				
Recycling Center																				
c. Tire Collection	\$ 83,427	\$ 18,325	\$ 87,815	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
d. HHW Collection	\$ 46,470	\$ 115,429	\$ 101,113	\$ 57,508	\$ 57,683	\$ 59,060	\$ 60,475	\$ 61,928	\$ 63,422	\$ 64,956	\$ 66,533	\$ 68,154	\$ 69,819	\$ 71,531	\$ 73,290	\$ 75,098	\$ 76,957	\$ 78,867	\$ 80,830	\$ 82,849
e. Yard Waste Management	\$ -	\$ -	\$ -	\$ 13,000	\$ 39,000	\$ 47,000	\$ 61,000	\$ 65,000	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500
f. Recycling Collection:																				
Collection Drives	\$ 41,944	\$ 80,788	\$ 54,008	\$ 58,900	\$ 66,900	\$ 67,752	\$ 68,630	\$ 31,033	\$ 31,964	\$ 32,923	\$ 33,911	\$ 34,928	\$ 35,976	\$ 37,056	\$ 38,167	\$ 39,312	\$ 40,492	\$ 41,706	\$ 42,958	\$ 44,246
Curbside																				
Drop-Off	\$ 227,267	\$ 220,806	\$ 386,509	\$ 365,404	\$ 327,039	\$ 327,039	\$ 327,039	\$ 340,121	\$ 340,121	\$ 340,121	\$ 353,725	\$ 353,725	\$ 353,725	\$ 367,874	\$ 367,874	\$ 367,874	\$ 382,589	\$ 382,589	\$ 382,589	\$ 397,893
g. Recycling Market Development	\$ 621,336	\$ 678,715	\$ 480,323	\$ 105,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	-	-	-	-	-	-	-	-	-	-	-	-
h. Dump Cleanup																				
Private Land																				
Public Land																				
i. Litter Collection/Educ.	\$ 70,908	\$ 62,979	\$ 196,556	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277
j. Engineering Svcs. Contrs.		\$ 11,478																		
k. Other Services Contracts	\$ 331,296	\$ 354,072	\$ 550,885	\$ 589,500	\$ 589,500	\$ 589,500	\$ 589,500	\$ 589,500	\$ 589,500	\$ 589,500	\$ 589,500	\$ 589,500	\$ 589,500	\$ 589,500	\$ 589,500	\$ 589,500	\$ 589,500	\$ 589,500	\$ 589,500	\$ 589,500
l. Education/Awareness																				
District Staff	\$ 87,371	\$ 87,876	\$ 110,132	\$ 88,899	\$ 91,566	\$ 94,313	\$ 97,142	\$ 100,056	\$ 103,058	\$ 106,150	\$ 109,334	\$ 112,614	\$ 115,993	\$ 119,472	\$ 123,057	\$ 126,748	\$ 130,551	\$ 134,467	\$ 138,501	\$ 142,656
Contracted Agencies/Srvs.	\$ 128,379	\$ 68,852	\$ 106,910	\$ 136,600	\$ 136,600	\$ 136,600	\$ 136,600	\$ 136,600	\$ 136,600	\$ 136,600	\$ 136,600	\$ 136,600	\$ 136,600	\$ 136,600	\$ 136,600	\$ 136,600	\$ 136,600	\$ 136,600	\$ 136,600	\$ 136,600
m. Other	\$ 209,849	\$ 305,150																		
Subtotal	\$ 2,592,635	\$ 2,709,768	\$ 2,719,826	\$ 2,350,668	\$ 3,134,976	\$ 2,262,463	\$ 2,296,481	\$ 2,295,628	\$ 2,271,257	\$ 2,292,965	\$ 2,328,875	\$ 2,351,794	\$ 2,375,344	\$ 2,413,694	\$ 2,438,563	\$ 2,464,121	\$ 2,505,103	\$ 2,532,099	\$ 2,559,845	\$ 2,603,667
3. Health Dept. Enforcement	\$ 277,930	\$ 277,930	\$ 277,930	\$ 277,930	\$ 285,682	\$ 285,682	\$ 285,682	\$ 287,930	\$ 287,930	\$ 287,930	\$ 292,930	\$ 292,930	\$ 292,930	\$ 292,930	\$ 292,930	\$ 292,930	\$ 292,930	\$ 292,930	\$ 292,930	\$ 292,930
4. County Assistance	\$ 420,000	\$ 505,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
5. Well Testing	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694
6. Out-of-State Waste Inspection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7. Litter Law Enforcement	\$ -	\$ -	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000
8. Health Dept. Training	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9. Municipal/Township Assist.	\$ -	\$ -	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000
10. Comp. to Affected Communities	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 3,585,833	\$ 3,923,432	\$ 3,634,335	\$ 3,292,925	\$ 4,018,585	\$ 3,148,479	\$ 3,184,976	\$ 3,228,925	\$ 3,167,184	\$ 3,191,601	\$ 3,235,301	\$ 3,261,094	\$ 3,327,605	\$ 3,329,004	\$ 3,357,014	\$ 3,385,806	\$ 3,430,120	\$ 3,460,547	\$ 3,491,828	\$ 3,539,292

**MAHONING COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN
SECTION X
TABLE VIII-6 Alt.
REVENUES AND ALLOCATIONS**

YEAR	TONS DISPOSED IN DISTRICT	Gross Revenue (\$)	EXPENDITURES *											TOTAL EXPEND- ITURES	BALANCE	CUMULATIVE BALANCE	
			1	2	3	4	5	6	7	8	9	10	11				
																	\$ 3,711,097
2003	1,978,305	\$ 3,740,116	\$ 117,574	\$ 2,592,635	\$ 277,930	\$ 420,000	\$ 177,694	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 158,900	\$ 3,744,733	\$ (4,617)	\$ 3,706,480	
2004	1,850,161	\$ 3,504,052	\$ 253,040	\$ 2,709,768	\$ 277,930	\$ 505,000	\$ 177,694	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 158,900	\$ 4,082,332	\$ (578,280)	\$ 3,128,200	
2005	1,746,493	\$ 3,159,320	\$ 128,885	\$ 2,719,826	\$ 277,930	\$ 250,000	\$ 177,694	\$ -	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ 67,920	\$ 3,702,255	\$ (542,935)	\$ 2,520,745	
2006	1,873,189	\$ 3,272,010	\$ 156,633	\$ 2,350,668	\$ 277,930	\$ 250,000	\$ 177,694	\$ -	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ -	\$ 3,292,925	\$ (20,915)	\$ 2,499,831	
2007	1,888,444	\$ 3,285,649	\$ 90,233	\$ 3,134,976	\$ 285,682	\$ 250,000	\$ 177,694	\$ -	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ -	\$ 4,018,585	\$ (732,937)	\$ 1,766,894	
2008	1,903,736	\$ 3,299,527	\$ 92,640	\$ 2,262,463	\$ 285,682	\$ 250,000	\$ 177,694	\$ -	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ -	\$ 3,148,479	\$ 151,049	\$ 1,917,943	
2009	1,905,834	\$ 3,293,796	\$ 95,119	\$ 2,296,481	\$ 285,682	\$ 250,000	\$ 177,694	\$ -	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ -	\$ 3,184,976	\$ 108,820	\$ 2,026,763	
2010	1,908,434	\$ 3,288,994	\$ 137,673	\$ 2,295,628	\$ 287,930	\$ 250,000	\$ 177,694	\$ -	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ -	\$ 3,228,925	\$ 60,069	\$ 2,086,832	
2011	1,911,709	\$ 3,285,380	\$ 100,303	\$ 2,271,257	\$ 287,930	\$ 250,000	\$ 177,694	\$ -	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ -	\$ 3,167,184	\$ 118,197	\$ 2,205,029	
2012	1,915,145	\$ 3,282,178	\$ 103,012	\$ 2,292,965	\$ 287,930	\$ 250,000	\$ 177,694	\$ -	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ -	\$ 3,191,601	\$ 90,577	\$ 2,295,605	
2013	1,918,728	\$ 3,279,363	\$ 105,802	\$ 2,328,875	\$ 292,930	\$ 250,000	\$ 177,694	\$ -	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ -	\$ 3,235,301	\$ 44,061	\$ 2,339,667	
2014	1,922,452	\$ 3,276,924	\$ 108,676	\$ 2,351,794	\$ 292,930	\$ 250,000	\$ 177,694	\$ -	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ -	\$ 3,261,094	\$ 15,830	\$ 2,355,497	
2015	1,926,314	\$ 3,274,851	\$ 151,637	\$ 2,375,344	\$ 292,930	\$ 250,000	\$ 177,694	\$ -	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ -	\$ 3,327,605	\$ (52,753)	\$ 2,302,743	
2016	1,930,005	\$ 3,272,680	\$ 114,686	\$ 2,413,694	\$ 292,930	\$ 250,000	\$ 177,694	\$ -	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ -	\$ 3,329,004	\$ (56,323)	\$ 2,246,420	
2017	1,933,821	\$ 3,270,851	\$ 117,826	\$ 2,438,563	\$ 292,930	\$ 250,000	\$ 177,694	\$ -	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ -	\$ 3,357,014	\$ (86,163)	\$ 2,160,257	
2018	1,937,756	\$ 3,269,351	\$ 121,061	\$ 2,464,121	\$ 292,930	\$ 250,000	\$ 177,694	\$ -	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ -	\$ 3,385,806	\$ (116,455)	\$ 2,043,801	
2019	1,941,805	\$ 3,268,170	\$ 124,393	\$ 2,505,103	\$ 292,930	\$ 250,000	\$ 177,694	\$ -	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ -	\$ 3,430,120	\$ (161,949)	\$ 1,881,852	
2020	1,945,962	\$ 3,267,297	\$ 127,825	\$ 2,532,099	\$ 292,930	\$ 250,000	\$ 177,694	\$ -	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ -	\$ 3,460,547	\$ (193,250)	\$ 1,688,602	
2021	1,950,985	\$ 3,267,865	\$ 131,359	\$ 2,559,845	\$ 292,930	\$ 250,000	\$ 177,694	\$ -	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ -	\$ 3,491,828	\$ (223,964)	\$ 1,464,638	
2022	1,956,108	\$ 3,268,720	\$ 135,000	\$ 2,603,667	\$ 292,930	\$ 250,000	\$ 177,694	\$ -	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ -	\$ 3,539,292	\$ (270,571)	\$ 1,194,067	

- 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.

MAHONING COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN
SECTION X
TABLE VIII-8 Ait
SUMMARY OF REVENUES AND EXPENDITURES

Program Description	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Revenues	\$3,740,116	\$3,504,052	\$3,159,320	\$3,272,010	\$3,285,649	\$3,293,796	\$3,293,796	\$3,288,994	\$3,285,380	\$3,282,178	\$3,279,363	\$3,276,924	\$3,274,851	\$3,272,680	\$3,270,851	\$3,269,351	\$3,268,170	\$3,267,297	\$3,267,865	\$3,268,720	
Expenditures																					
1. Plan Monitoring/Preparation	\$ 117,574	\$ 253,040	\$ 128,885	\$ 156,633	\$ 90,233	\$ 92,640	\$ 95,119	\$ 137,673	\$ 100,303	\$ 103,012	\$ 105,802	\$ 108,676	\$ 151,637	\$ 114,686	\$ 117,826	\$ 121,061	\$ 124,393	\$ 127,825	\$ 131,359	\$ 135,000	
2. Plan Implementation (Agency Contract Agreement)																					
a. Admin Salary, Misc. District Expense:	\$ 744,390	\$ 705,297	\$ 645,576	\$ 751,580	\$ 692,411	\$ 706,922	\$ 721,818	\$ 737,112	\$ 752,815	\$ 768,938	\$ 785,494	\$ 802,495	\$ 819,954	\$ 837,883	\$ 856,298	\$ 875,211	\$ 894,638	\$ 914,592	\$ 935,090	\$ 956,146	
b. District Headquarters	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<i>--PROGRAMS--</i>																					
c. Waste Tire Removal & Disposal	\$ 83,427	\$ 18,325	\$ 87,815	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	
d. HHW Collection																					
- Household Hazardous Waste Collection	\$ 31,904	\$ 101,945	\$ 83,778	\$ 40,000	\$ 40,000	\$ 41,200	\$ 42,436	\$ 43,709	\$ 45,020	\$ 46,371	\$ 47,762	\$ 49,195	\$ 50,671	\$ 52,191	\$ 53,757	\$ 55,369	\$ 57,030	\$ 58,741	\$ 60,504	\$ 62,319	
- Household Battery Collection	\$ 14,566	\$ 13,484	\$ 17,335	\$ 17,508	\$ 17,683	\$ 17,860	\$ 18,039	\$ 18,219	\$ 18,401	\$ 18,585	\$ 18,771	\$ 18,959	\$ 19,149	\$ 19,340	\$ 19,534	\$ 19,729	\$ 19,926	\$ 20,125	\$ 20,327	\$ 20,530	
- Lead Acid Battery Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
e. Yard Waste Management																					
- Leaf Collection Program	\$ -	\$ -	\$ -	\$ 13,000	\$ 39,000	\$ 47,000	\$ 61,000	\$ 65,000	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500	\$ 69,500
- Yard Waste Composting	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
f. Opportunities to Recycle Program																					
- Curbside Recycling	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
- Drop-off Recycling Sites	\$ 223,977	\$ 217,236	\$ 374,759	\$ 353,404	\$ 314,559	\$ 314,559	\$ 314,559	\$ 327,141	\$ 327,141	\$ 327,141	\$ 340,227	\$ 340,227	\$ 340,227	\$ 353,836	\$ 353,836	\$ 353,836	\$ 367,990	\$ 367,990	\$ 367,990	\$ 382,709	
- School Fiber Program	\$ 3,290	\$ 3,570	\$ 11,750	\$ 12,000	\$ 12,480	\$ 12,480	\$ 12,480	\$ 12,979	\$ 12,979	\$ 12,979	\$ 13,498	\$ 13,498	\$ 13,498	\$ 14,038	\$ 14,038	\$ 14,038	\$ 14,600	\$ 14,600	\$ 14,600	\$ 15,184	
<i>(Included in Drop-off bin pull contract.)</i>																					
- Collection Drives																					
- Christmas Tree Recycling Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
- Office Paper Recovery Program	\$ 37,923	\$ 41,033	\$ 14,008	\$ 20,400	\$ 28,400	\$ 29,252	\$ 30,130	\$ 31,033	\$ 31,964	\$ 32,923	\$ 33,911	\$ 34,928	\$ 35,976	\$ 37,056	\$ 38,167	\$ 39,312	\$ 40,492	\$ 41,706	\$ 42,958	\$ 44,246	
- Appliance Drive	\$ 4,020	\$ 14,755	\$ 15,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
- Electronics Drive	\$ 1	\$ 25,000	\$ 25,000	\$ 18,500	\$ 18,500	\$ 18,500	\$ 18,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
- Magazine/Catalog Recycling Drive	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
g. Recycling Market Development																					
- Competitive Funding Program	\$ 298,184	\$ 491,557	\$ 442,817	\$ 105,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
- Competitive Paving Program	\$ 323,152	\$ 187,158	\$ 37,506	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
h. Dump Cleanup																					
i. Litter Collection & Adopt-A-Road Program	\$ 70,908	\$ 62,979	\$ 196,556	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	\$ 154,277	
j. Engineering Service Contractors	\$ 11,478	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
k. Other Services Contracts	\$ 34,895	\$ 128,007	\$ 63,800	\$ 60,747	\$ 59,500	\$ 59,500	\$ 59,500	\$ 59,500	\$ 59,500	\$ 59,500	\$ 59,500	\$ 59,500	\$ 59,500	\$ 59,500	\$ 59,500	\$ 59,500	\$ 59,500	\$ 59,500	\$ 59,500	\$ 59,500	
Industrial & Commercial/Industrial Hybrid Programs																					
- CERTT	\$ 48,000	\$ 24,075	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
- re:CREATE/Dump & Run	\$ -	\$ -	\$ -	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	
- Materials Exchange Database	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
- Waste Assessments Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Community Recycling Agreements	\$ 458,250	\$ 507,140	\$ 487,085	\$ 498,753	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	
l. Education/Awareness																					
- District Staff	\$ 87,371	\$ 87,876	\$ 110,132	\$ 88,899	\$ 91,566	\$ 94,313	\$ 97,142	\$ 100,056	\$ 103,058	\$ 106,150	\$ 109,334	\$ 112,614	\$ 115,993	\$ 119,472	\$ 123,057	\$ 126,748	\$ 130,551	\$ 134,467	\$ 138,501	\$ 142,656	
- Recycling Promotional Campaign	\$ 108,379	\$ 48,852	\$ 96,910	\$ 121,800	\$ 121,800	\$ 121,800	\$ 121,800	\$ 121,800	\$ 121,800	\$ 121,800	\$ 121,800	\$ 121,800	\$ 121,800	\$ 121,800	\$ 121,800	\$ 121,800	\$ 121,800	\$ 121,800	\$ 121,800	\$ 121,800	
- Cash-for-Cans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
- Backyard Composting	\$ -	\$ -	\$ -	\$ 4,800	\$ 4,800	\$ 4,800	\$ 4,800	\$ 4,800	\$ 4,800	\$ 4,800	\$ 4,800	\$ 4,800	\$ 4,800	\$ 4,800	\$ 4,800	\$ 4,800	\$ 4,800	\$ 4,800	\$ 4,800	\$ 4,800	
- Build America Beautiful	\$ 20,000	\$ 20,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	
- RREAP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
3. Health Dept. Enforcement	\$ 277,930	\$ 277,930	\$ 277,930	\$ 277,930	\$ 285,682	\$ 285,682	\$ 285,682	\$ 287,930	\$ 287,930	\$ 287,930	\$ 292,930	\$ 292,930	\$ 292,930	\$ 292,930	\$ 292,930	\$ 292,930	\$ 292,930	\$ 292,930	\$ 292,930	\$ 292,930	
4. County Assistance	\$ 420,000	\$ 505,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	
5. Well Testing	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	\$ 177,694	
6. Out-of-State Waste Inspection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
7. Litter and Illegal Dumping Law Enforcement	\$ -	\$ -	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	
8. Health Dept. Training	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
9. Municipal/Township Assist.	\$ -	\$ -	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	
10. Compensation to Affected Communities	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
11. Grant Expenditures	\$ 158,900	\$ 158,900	\$ 67,920	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Expenditures	\$ 3,744,733	\$ 4,082,332	\$ 3,702,255.05	\$ 3,292,925	\$ 4,018,585	\$ 3,148,479	\$ 3,184,976	\$ 3,228,925	\$ 3,167,184	\$ 3,191,601	\$ 3,235,301	\$ 3,261,094	\$ 3,327,605	\$ 3,329,004	\$ 3,357,014	\$ 3,385,806	\$ 3,430,120	\$ 3,460,547	\$ 3,491,828	\$ 3,539,292	
Balance	(\$4,618)	(\$578,280)	(\$542,935)	(\$20,915)	(\$732,937)	\$151,049	\$108,820	\$60,069	\$118,197	\$90,577	\$44,061	\$15,830	(\$52,753)	(\$56,323)	(\$86,163)	(\$116,455)	(\$161,949)	(\$193,250)	(\$223,964)	(\$270,571)	
Cumulative Balance																					