



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



STEVEN E. CHESTER
DIRECTOR

August 25, 2009

Mr. Roger C. Morgan, Chairman
Kent County Board of Commissioners
300 Monroe Avenue, NW
Grand Rapids, Michigan 49503-2206

Dear Mr. Morgan:

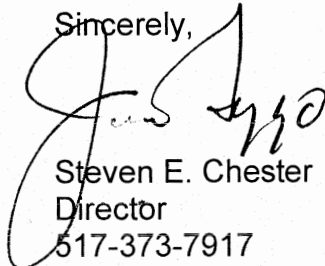
The locally-approved amendment to the Kent County Solid Waste Management Plan (Plan Amendment) received by the Department of Environmental Quality (DEQ) on March 30, 2009, is hereby approved.

The Plan Amendment creates the following changes:

- New goals and objectives including supporting actions will replace those in the existing Plan.
- Updated solid waste generation numbers, county demographic information, population growth rates, and capacity certification will be added.
- The following changes will be made to the "Solid Waste Disposal Areas" section:
 - Both the composting and recycling facilities located at the Central Sanitary Landfill in Montcalm County will be deleted from this section.
 - The Greenville Transfer Station and the Sparta Foundry Disposal Facility names will be changed.
 - The Richmond Transfer Station will be added and a complete facility description will be included.
 - Plummer's Environmental Services was added and a complete facility description will be included.
- Language indicating that Kent County has no plans to increase incineration was removed from the "Selected Alternative" and the "Resource Conservation Efforts, Waste Reduction, Recycling & Composting Program" sections.
- Changes made to the Selected System include adding additional consistency criteria, additional contract details, updated flow control information, allowances for additional rules and regulations to be set, and the Implementation Strategy will be updated to include achieving the goals in the Revised Michigan Solid Waste Policy and by updating list of responsible parties.
- Adds failure to comply with ordinances directing waste to designated facilities as a Plan violation.
- Specific names of staff, companies, and agencies will be changed or deleted to reflect current information.

The DEQ would like to thank Kent County for its efforts in addressing its solid waste management issues. If you have any questions, please contact Ms. Rhonda Oyer Zimmerman, Chief, Solid Waste Management Unit, Storage Tank and Solid Waste Section, Waste and Hazardous Materials Division, at 517-373-4750.

Sincerely,


Steven E. Chester
Director **Acting**
517-373-7917

cc: Senator Bill Hardiman
Senator Mark C. Jansen
Representative David Agema
Representative Justin Amash
Representative Robert Dean
Representative Kevin Green
Representative Dave Hildenbrand
Representative Tom Pearce
Representative Roy Schmidt
Mr. Douglas G. Wood, Kent County Department of Public Works
Mr. Jim Sygo, Deputy Director, DEQ
Ms. JoAnn Merrick, Chief of Staff, DEQ
Ms. Carol Linteau, Legislative Director, DEQ
Mr. George W. Bruchmann, DEQ
Mr. Steve Sliver, DEQ
Ms. Amy Lachance, DEQ
Ms. Rhonda Oyer Zimmerman, DEQ
~~Ms. Becky Beauregard, DEQ~~
Kent County File

SOLID WASTE DIVISION

Waste-to-Energy Facility
District Heating and
Cooling Operations
Landfill Operations
Recycling
Resource Recovery

UTILITY SERVICES DIVISION

Financing
Construction
Operation

**Board of Public Works**

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DOUGLAS G. WOOD
Director

March 27, 2009

Ms. Christina Miller
Environmental Quality Analyst
MDEQ – Waste and Hazardous Materials Division
PO Box 30241
Lansing, MI 48909-7741

Re: Kent County Solid Waste Management Plan Amendment/Final Approval

Dear Ms. Miller:

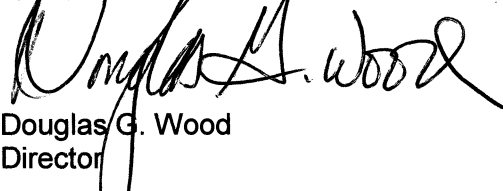
On behalf of the Kent County Board of Public Works, serving as the designated planning agency, enclosed is a copy of the Kent County Solid Waste Management Plan Amendment which was prepared in compliance with Section 11539a of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act 1994 PA 451, as amended.

The amendment will become Appendix E of the current plan which was approved in April 2000 by the Michigan Department of Environmental Quality. Enclosed is the amendment with all changes noted by page and section. On November 20, 2008, the Kent County Board of Commissioners approved the Plan Amendment. The Plan was then distributed to the 35 local units of government within Kent County for their approval (67%). The resolutions approving the Plan are located in Appendix E of the Plan. For the final step in the approval process, Kent County is requesting final review and approval of the Plan Amendment.

I can be reached at 616-336-3532 or e-mail Doug.Wood@kentcountymi.gov if you have any questions or contact Dennis Kmiecik at 616-4369 or e-mail Dennis.Kmiecik@kentcountymi.gov.

Best regards,

KENT COUNTY DEPARTMENT OF PUBLIC WORKS


Douglas G. Wood
Director

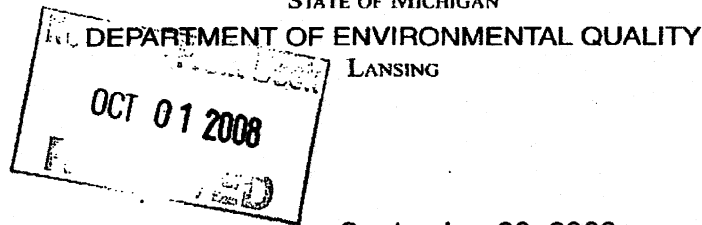
Enclosures

Waste & Hazardous
Materials Division

MAR 30 2009



JENNIFER M. GRANHOLM
GOVERNOR



STEVEN E. CHESTER
DIRECTOR

September 29, 2008

Mr. Douglas G. Wood, Director
Kent County Board of Public Works
Earl G. Woodworth Building
1500 Scribner Avenue, N.W.
Grand Rapids, Michigan 49504-3233

Dear Mr. Wood:

SUBJECT: Kent County Solid Waste Management Plan Amendment

The Department of Environmental Quality (DEQ) has received and reviewed the documentation provided by you for the draft Kent County Solid Waste Management Plan Amendment (Plan Amendment) 90-day public comment period ending October 30, 2008. The following areas of the Plan Amendment may require revision or additional information:

Page 2 of your Plan Amendment indicates two facilities will be added to Section II.2, page II-3, Solid Waste Disposal Areas. These two facilities, Richmond Transfer Station and Plummer's Environmental Services must also have complete facility descriptions included in the Plan in Section II (please list the page numbers where these facility descriptions will be located). If the facilities will be used to provide required capacity and management needs, they must also be listed in the Solid Waste Disposal Areas on Section III.4, page III-7 and completed facility descriptions must be included in Section III.5 (please list the page numbers where these facility descriptions will be located).

If you have any questions or comments, please contact me at the telephone number below, or by e-mail at beauregardb@michigan.gov.

Sincerely,

Becky Beauregard
Solid Waste Management Unit
Storage Tank and Solid Waste Section
Waste and Hazardous Materials Division
517-373-4738

cc: Ms. Rhonda Oyer Zimmerman, DEQ
Kent County File

CONSTITUTION HALL • 525 WEST ALLEGAN STREET • P.O. BOX 30241 • LANSING, MICHIGAN 48909-7741
www.michigan.gov • (517) 335-2690

AMENDMENT TO KENT COUNTY ACT 451
SOLID WASTE MANAGEMENT PLAN
JULY 2008

The Kent County Act 451 Solid Waste Management Plan (May 1999) is hereby amended as follows:

1997 PLAN UPDATE COVER PAGE

- E-mail address updated to: Doug.Wood@kentcountymi.gov

Section I.1.B, page I-2

- In the second paragraph, second sentence, the date is changed to 2015 from 2010.

Section I.2, pages I-3 thru I-5

- Goals and Objectives are replaced with the following new goals and objectives: see attached pages.

Section II.1, pages II-1 thru II-2, Data Base, replaced with the following:

- The following paragraph was added beneath the line "The following database is derived from the listed sources:"
 - "To determine generation rates for solid waste in Kent County, a comparison was made of recent solid waste studies. These included the 2001 Michigan Recycling Coalition Michigan Recycling Measurement Project; The 2006 BioCycle "The State of Garbage in America" 15th Nationwide Survey by the Earth Engineering Center at Columbia University; EPA Municipal Solid Waste Generation Report for 2006 by Franklin and Associates. Figures from these sources showed solid waste generation volumes below disposal quantities reported to the State of Michigan for the years 2000, 2005, 2006 and 2007. The decision was made to keep the current generation rates for each category as reported in the 1999 Solid Waste Management Plan."
- The last paragraph of Section II.1 was changed to read:
 - The data was generated by using population and employment figures obtained from the U.S. Census Bureau and the Michigan Department of Labor and Economic Growth.
- The table in Section II.1.A has been updated to read:

**II.1.A PROJECTED SOLID WASTE QUANTITIES FOR KENT COUNTY
SOLID WASTE GENERATION (TONS PER YEAR)**

	2000	2005	2010	2015	2020
Residential	358,471	372,409	379,046	386,934	416,558
Commercial	251,541	257,282	265,338	294,845	313,627
Industrial	186,259	150,471	146,587	149,446	152,305
Total MSW	796,272	780,162	790,971	831,225	882,490
CDD & ISW	199,068	195,040	197,743	207,806	220,622
Total Solid Waste	995,340	975,202	988,714	1,039,032	1,103,112

Abbreviations: Municipal Solid Waste = MSW
 Construction Demolition & Debris = CDD
 Industrial Special Waste = ISW

(Department of Environmental Quality Solid Waste Landfill Receipt Reports for the fiscal years of 2000, 2005, 2006 and 2007, Kent County 1999 Solid Waste Management Plan, the State of Michigan Solid Waste Planning Guidebook and the State of Michigan Waste Generation Figures as reported in the Oakland County 1990 SWM.)

- The last paragraph of Section II.1.A has been updated to read (changes are underlined):
“Overall, the County does not anticipate any major uncertainty associated with managing the solid waste generated within its borders. Within Kent County, approximately 2,672 tons of solid waste is generated every day (988,713 tons/year) based on 2005 data. The Waste-To-Energy Facility incinerates an average of 488 tons/day, while the South Kent Landfill presently accepts approximately 468 tons/day for disposal. The remaining 1,300 tons of solid waste are transported to out-of-county disposal areas. This leaves a balance of approximately 300 tons of material per day for diversion. This diversion rate includes residential recycling (37 tons/day) and 279 tons per day for commercial/industrial recycling and composting. South Kent Landfill has sufficient capacity for the next 23 years at a disposal rate of 155,000 tons per year or 500 tons per day.”
- The TOTAL QUANTITY OF SOLID WASTE GENERATED (page II-2) has been updated to 988,173 Tons annually.
- The TOTAL QUANTITY OF SOLID WASTE NEEDING DISPOSAL (page II-2) has been updated to 823,746 Tons annually.

Section II.2, page II-3, Solid Waste Disposal Areas,

- Deleted the following facilities:
 - Central Sanitary Landfill – Montcalm County – Composting Facility
 - Central Sanitary Landfill – Montcalm County – Recycling Facility
- Amended the following facilities:
 - Greenville Transfer Station - Montcalm County - Type A Transfer Station (deleted “Waste Management of West Michigan”)
 - Sparta Foundry Disposal Facility was changed to Sparta Foundry Waste Facility
- Added the following facilities, *facility descriptions to be found on pages II-15 and II-16*
 - Richmond Transfer Station - Kent County - Type A Transfer Station
 - Plummer’s Environmental Services - Kent County - LIW Pretreatment Plant

Section II.6, page II-20, Demographics, was changed to the following:

- The second and third paragraphs were updated to read (changes are underlined):
“The population growth projections provide 2000 census data and population forecasts for the years 2010 and 2020. The projected rate of change between 2000 and 2010 is shown for each unit, indicating the areas that are expected to experience the most growth.

“The county’s population as a whole is expected to increase at a growth rate of 5.7% from 2000 to 2010 and 9.8% from 2010 to 2020.”

- Before the final paragraph and below the two paragraphs mentioned above, a fourth paragraph has been added, which reads:
 “The 2010 Forecast was made by using the US Census data for the rate of change in population for the years 2000-2005. This rate was used with the 2005 US Census estimated population data to forecast the populations for 2010. The 2020 Forecast was made by using the 2010 population estimate and assuming the municipality will have a similar percentage of Kent County’s total population in 2020 as forecasted by the US Census.”

Section II.6, page II-21

- Kent County Population Growth was replaced with the following: see attached pages.

Section II.8.B.5, page II-28, Selective Alternative

- Delete the sentence in the second paragraph which reads “The County has no proposal to expand incineration capacity during this plan period.”

Section III.1, page III-1

- First paragraph second to the last sentence should read Appendix A instead of B (typo error)

Sections III.2 and III.3, pages III-2 through III-6, Export Authorization

- At the bottom of the page, delete “the Attachment Section” and replace with “Appendix D-6.”

Section III.9, page III-24

- In the fourth paragraph, delete the following: “which is utilized in the District Heating and Cooling operations. Since the facility is operated at maximum capacity, an increase in incineration is not part of this Plan.”

Section III.16.G, page III-46

- Added Consistency Criteria number 14 which states the following:
 “14. The proposed disposal area shall include, but not limited to, a permanent public household hazardous waste facility, a public recycling drop-off center, and an electronics recycling collection center. These ancillary programs shall be constructed and operated in accordance with, and equal to, the criteria set forth by the Department of Public Works.”

Section III.17.A, page III-47

- In the first paragraph, fourth sentence, the city of Wyoming has been added.
- The sentence should read as follows (changes are underlined):
 “With the expansion of Kent County’s Refuse Disposal System to include the Waste-To-Energy Facility (WTE), Kent County entered into contracts with six metropolitan communities (Grand Rapids, Walker, East Grand Rapids, Grandville, Kentwood and Wyoming) in order to provide for flow of waste to the WTE Facility to ensure economical feasibility of operation.”

Section III.17.A, page III-48

- Remove the names of people, to read:

Department of Public Works:	Director
	Finance Director
Resource Recovery:	Solid Waste Division Director
	Resource Recovery Specialist
Waste-To-Energy:	WTE Division Director
Landfill Operations:	Engineering/Utility Services Director

Section III.17.A.2, page III-48

- In the last paragraph, first sentence, deleted "Ogden Martin Systems of Kent" and added "COVANTA Kent, Inc."

Section III.17.D, page III-52, Federal Government

- Changed "Department of Natural Resources" to "Department of Environmental Quality."
- After the paragraph, added the following:

"The U.S. Supreme Court ruled on April 30, 2007 in the case of *United Haulers Association, Inc., et al v. Oneida-Herkimer Solid Waste Management Authority* that a municipal ordinance that directs locally generated-wastes to publicly owned waste facilities does not discriminate against interstate commerce.

"Kent County entered into solid waste delivery agreements with private waste companies, as described in this plan, following an earlier U.S. Supreme Court ruling in the case of *C&A Carbone v. Clarkston*. The term of these agreements is through the year 2010, unless otherwise terminated for reasons as defined.

"Through this solid waste plan Kent County recognizes and has used flow control as an effective legal approach to implement an integrated solid waste management program. To the extent allowed by law and after public discussion and input from residents and businesses, and taking into consideration economic, environmental and other impacts, "flow control" may be continued or implemented in the interest of ensuring an integrated solid waste management program as defined in this plan."

Section III.19, page III-57

- Added the following: Number 14
"Directing solid waste to designated facilities in accordance with local ordinances, state and federal law."

Section III.20, page III-58, Plan Violations

- Add the following: Number 5
"Failure to comply with ordinances directing waste to designated facilities in accordance with state and federal law."

Section III.21, page III-58, Capacity Certification

- Updated the data to include the following years:

YEAR	1996	1997	1998	1999	2000	2001
TONS	162,870	137,389	135,513	165,672	163,276	170,925
YEAR	2002	2003	2004	2005	2006	2007
TONS	170,843	178,318	179,363	175,754	178,184	191,972

- Updated the last paragraph to read (changes are underlined):
“Based on the data supplied in this Plan, the South Kent Landfill has current capacity of approximately 6,030,000 tons. Using conservative data found on pages II-1, 2 and 14 of this Plan, the South Kent Landfill has sufficient capacity for the next 23 years at a disposal rate of 155,000 tons per year or approximately 500 tons per day.”

Appendix A, page A-8, Coordination Efforts

- In the fourth paragraph delete last sentence: “These delivery agreements expire in December 2002.”

Appendix C, page C-6

- In Rule 4, delete the word “Deputy”

Appendix C, page C-7, Planning Committee

- See attached page of the new list of members of the Planning Committee

Appendix D, page D-1, Plan Implementation Strategy

- Updated the second and third paragraphs to read:

“Section II recommends an offshoot of Alternative 3 from the previous Plan as the preferred solid waste management strategy for Kent County. Section I, Goals and Objectives, was updated to reflect a committed strategy to utilize 50% of the municipal solid waste generated in Kent County by 2015. This includes expansion of residential recycling services through construction of a new Materials Recovery Facility, expansion of the Household Hazardous Waste Program by construction of a full service permanent facility, expansion of all education and marketing endeavors to increase participation by 25% in all programs over the next five-year planning period. The main emphasis of the Solid Waste Management Plan is a continuation of the present system to ensure long-term disposal capacity through the Waste-to-Energy facility and South Kent Landfill after materials diversion. This system has worked well in the County during the previous Plan and no major changes are foreseen in the five-year planning period.

“The Act 451 Plan implementation and management responsibilities will be assumed by the Kent County Board of Public Works acting through the Kent County Department of Public Works. The Kent County Board of Public Works is the designated Planning Agency and is responsible for the Kent County Solid Waste Management Plan.”

Amendment to: Section I.2, pages I-3 thru I-5

The following Goals and Objectives replace those in the 1999 Plan

Policy Statement:

The Kent County Solid Waste Management Plan works toward the goal of utilizing 50% of the Municipal Solid Waste (MSW) generated in Kent County by 2015, as defined by the Michigan Solid Waste Policy 2007. Kent County Department of Public Works will strive to make continuous improvements toward this goal by establishing and implementing systems that take into consideration the economic vitality, ecological integrity, and social equity of the management of MSW. All systems established and managed within these principles will foster the ultimate goal of a sustainable Solid Waste Management Plan.

This policy statement will guide the following goals and objectives:

Goal 1: Maintain an integrated and sustainable solid waste management system centered on the protection of public health and the environment.

Objective 1: Ensure long-term disposal capacity is available for Kent County residents and businesses.

Action 1: Evaluate and prepare each year a report of the long-term availability of final disposal capacity for solid waste that includes in the evaluation solid waste facilities owned and operated by Kent County and regional disposal facilities.

Action 2: Obtain agreements or a contract as needed with public or private entities to make certain long-term (20-year) solid waste disposal capacity is available.

Action 3: Establish a work group that includes waste companies, generators, villages, townships, and cities with the goal to identify all issues and options concerning organized collection systems and develop recommendations by 2009.

Objective 2: Maintain and operate components of an integrated waste management system that includes the Waste-to-Energy Facility, South Kent Landfill, Material Recovery Facility, North Kent Transfer Facility, recycling drop-off centers, household hazardous waste facilities, resource recovery programs in accordance with federal, state and local laws, rules and regulations.

Action 1: Prepare a feasibility analysis decision-making tool for expansion of the Waste-to-Energy Facility by January 1, 2011 that includes examination of service area, capital requirements, and legal requirements.

Action 2: Complete expansion plan for South Kent Landfill into Allegan County by January 1, 2010 that includes additional properties needed, economic analysis, cooperative partnership with Allegan County concerning long-term disposal requirements for both Counties, implementation schedule, sustainable development and environmental accounting considerations above those required by rule, regulation or law.

Objective 3: Evaluate, recommend, and/or implement an economic financing plan that provides support for solid waste management, collection, transportation, and disposal services.

Action 1: Prepare an economic and financing plan by December 31, 2010, that includes integration of the landfill, transfer station, waste-to-energy facility, and ancillary waste services, including the household hazardous waste and recycling programs.

Goal 2: Develop, maintain and expand public education programs and marketing and public relations materials, which showcase, support & explain the Solid Waste and Resource Recovery services to increase participation in all programs by at least 25% by 2012.

Objective 1: Increase participation among the Kent County elementary schools in the Earth Day Recycle Challenge by 25% each year to reach 100 schools by 2012.

Action 1: Continue to utilize the Kent ISD courier service to send information.

Action 2: Establish a database of schools that participate in tours/presentations to send Recycle Challenge information by direct mail.

Action 3: Increase budget to provide rewards for 75% of participating schools and 100% of participating students.

Action 4: Research potential corporate sponsors or partners for the Recycle Challenge.

Objective 2: Include, in the planning of a new Materials Recovery Facility, the design and construction of a new education center for school and public programs, by 2012.

Action 1: Establish a "wish list" of displays & items for a new center.

Action 2: Research the feasibility of including "green" building design.

Action 3: Include an enclosed touring area for the public to view the operations of the MRF safely.

Action 4: Include a public display area to be open to the public with exhibits promoting recycling and resource recovery

Action 5: Include a flexible classroom to be used for a variety of public and school programs

Action 6: Include a media room to be used for viewing of recycling-related media & explore the possibility of a corporate sponsor for such a room.

Action 7: Research the feasibility of opening an education center for a limited amount of "public hours".

Objective 3: Establish a separate webpage for emphasizing recycling and other waste reduction techniques, by 2010.

Action 1: Establish a web address for DPW website

Action 2: Brainstorm a mascot or logo for DPW programs

Action 3: Maintain the information on the webpage to be accurate and timely.

Objective 4: Establish a composting education program by 2010.

Action 1: Research potential community partners – both corporate sponsorships and program partnerships to avoid duplication of community programs.

Action 2: Research available programs to promote backyard composting through at-cost sales of compost bins

Action 3: Create an educational program to teach and promote backyard composting

Action 4: Research the options for incentives for residents to compost yard wastes and food wastes (where allowed)

Objective 5: Develop new and continue to update timely marketing materials and media releases that promote new and established Resource Recovery programs and Solid Waste services.

Action 1: Continue to promote the Household Hazardous Waste program and find new resources for promotion of the program

Action 2: Continue the Household Waste Guide production with yearly updates.

Action 3: Maintain online waste guide & update as needed throughout the year.

Action 4: Continue to produce the Recycling cards for distribution at drop off centers

Action 5: Develop an information/press kit that highlights all aspects of DPW to be used for promotional opportunities

Action 6: Purchase promotional gifts – magnets, etc.

Objective 6: Research the feasibility of adding staff members to focus on the specific areas of public education and marketing/public relations to have the positions added by 2012

Objective 7: Increase the educational opportunities available for schools by 2010.

Action 1: Establish education kits that teachers can borrow for use in the classroom.

Action 2: Create lesson plans for new presentations on specific topics that can be brought to a school or presented in a new Education Center.

Action 3: Correlate lesson plans & tour content to the Michigan State Grade Level Content Expectations.

Action 4: Encourage recycling in schools by researching available resources for school recycling and assisting schools in establishing a recycling program.

Objective 8: Promote small business recycling to help local businesses, including non-profit organizations, find outlets for recyclable materials.

Action 1: Research options for recycling and promoting them to small businesses by 2010

Goal 3: Provide Kent County residents convenient, state-of-the-art technologies and cost effective access to residential recycling programs.

Objective 1: Expand present material recovery facility operations to include new single stream processing technology to accept wider range of recyclable materials.

Action 1: Plan, design and construct a new single stream material recovery facility in 2009.

Action 2: Continue to actively pursue markets for the sale of recycled materials.

Objective 2: Develop a plan to increase recycling options for multifamily dwellings, condominiums, apartment complexes, public facilities/areas, rural areas and special events by 2012.

Action 1: Work with local municipalities and planning agencies to include recycling options for facilities other than single residential homes.

Action 2: Continue to analyze and promote recycle drop-off centers for out-lying areas.

Action 3: Work with local waste companies to develop programs to expand recycling opportunities for multifamily dwellings, condominiums, apartment complexes, rural areas and special events by 2012

Goal 4: Provide more opportunities to remove hazardous materials from the waste stream.

Objective 1: Maintain current Household Hazardous Waste Program (HHW) until a permanent facility is established.

Action 1: Ensure services are available to serve a minimum of 3,000 – 5,000 households per year at the county's four permanent centers.

Action 2: Eliminate disposal fees to rural townships and provide a minimum of three Saturday events to serve the far northern, southern and eastern townships of Kent County.

Action 3: Dedicate 2 staff people just to the Household Hazardous Waste Program, to eliminate weekly appointment system and expand hours, i.e. 2 people per site.

Action 4: Develop at least one ad for television with periodic run times.

Objective 2: Investigate and work with other programs and/or businesses for the additional collection and disposal of the following common hazards:

Action 1: Compact Fluorescent Bulbs (CFL's) – Retailer collection sites.

Action 2: Electronics – One-day event sponsors.

Action 3: Batteries – locate more centers for automotive batteries and alkaline batteries.

Action 4: Motor oil – Purchase and distribute Do-it-Yourself containers. Locate more oil collection sites for residents.

Action 5: Latex paint – investigate Home Repair Services or other collection centers.

Action 6: Pharmaceuticals - work with local wastewater treatment plants to provide at least one pharmaceutical collection per year.

Action 7: Work with Kent County Health Department to provide dedicated sharps containers and collection of containers through either the Health Department or the HHW program.

Objective 3: Provide 3-4 collections annually for Conditionally Exempt Small Quantity Generators (CESQG) to safely dispose of their hazardous materials.

Action 1: Develop criteria for participating CESQG businesses.

Action 2: Develop billing and cost accounting system for participating CESQG businesses.

Action 3: Disposal Contractor on site.

Objective 4: By 2012 design, fund and build a 4,000-6,000 square foot Household Hazardous Waste (HHW) and Conditionally Exempt Small Quantity Generator (CESQG) facility.

Action 1: Service a minimum of 8,000 to 10,000 households annually.

Action 2: Establish "business hours" weekdays and weekends.

Action 3: Establish personnel 2-4 staff people, possible chemist on site.

Action 4: Monthly collections for CESQG businesses.

Action 5: Reuse/ Swap Center for usable materials

Action 6: Possibly accept and bulk latex paint for Reuse/Swap center.

Action 7: Transfer household batteries and electronics storage from Recycling Facility to permanent HHW facility.

Update to Section II.6, page II-21

Kent County Population Growth

<u>Cities</u>	2000 Census	2010 Forecast	2020 Forecast	% Change (2000-2010)
Cedar Springs	3,112	3,325	3,562	2.8%
East Grand Rapids	10,764	10,021	10,736	-3.5%
Grand Rapids	197,800	189,904	203,455	-2.0%
Grandville	16,263	17,179	18,405	2.8%
Kentwood	45,255	47,746	51,153	2.7%
Lowell	4,013	4,272	4,577	3.2%
Rockford	4,626	5,533	5,928	9.3%
Walker	21,842	25,106	26,898	7.2%
Wyoming	69,368	70,893	75,952	1.1%

<u>Townships</u>	2000 Census	2010 Forecast	2020 Forecast	% Change (2000-2010)
Ada	9,882	13,997	14,996	19.0%
Algoma	7,596	11,035	11,822	20.6%
Alpine	13,976	13,748	14,729	-0.8%
Bowne	2,746	3,086	3,307	6.1%
Byron	17,553	23,090	24,738	14.7%
Caledonia (balance of)	7,862	12,977	13,908	28.5%
Cannon	12,075	14,503	15,543	9.6%
Cascade	15,107	18,178	19,482	9.7%
Courtland	5,817	8,429	9,034	20.4%
Gaines	20,112	27,256	29,210	16.4%
Grand Rapids	14,056	15,556	16,671	5.2%
Grattan	3,551	3,953	4,237	5.5%
Lowell	5,219	7,375	7,904	18.9%
Nelson (balance of)	3,700	4,575	4,903	11.2%
Oakfield	5,058	6,392	6,850	12.4%
Plainfield	30,195	33,023	35,391	4.6%
Solon	4,662	6,988	7,489	22.9%
Sparta (balance of)	4,779	5,514	5,909	7.5%
Spencer	3,681	4,004	4,291	4.3%
Tyrone (balance of)	3,067	3,387	3,630	5.1%
Vergennes	3,611	4,701	5,038	14.1%

<u>Villages</u>	2000 Census	2010 Forecast	2020 Forecast	% Change (2000-2010)
Caledonia	1,102	1,482	1,589	16.0%
Casnovia	176	174	186	-0.6%
Kent City	1,061	1,087	1,165	1.2%
Sand Lake	492	533	571	4.1%
Sparta	4,159	3,925	4,206	-3.0%

COUNTY TOTALS: 574,335 607,300 (projected) 667,400 (projected) 5.7% (projected)

Sources: US Census: www.census.gov & Library of Michigan: www.michigan.gov/hal

Update to Appendix C:

PLANNING COMMITTEE

Committee member names and the company, group, or governmental entity represented from throughout the County are listed below.

Four representatives of the solid waste management industry:

1. Randy Dozeman, Waste Management of West Michigan
2. Thomas Evenhouse, Allied Waste Industries
3. Dan Strock, Arrowaste, Inc.
4. John E. VanTholen, Green Valley Disposal Services

One representative from an industrial waste generator:

1. Darwin Baas, Valley City Environmental Services

Two representatives from environmental interest groups from organizations that are active within the County:

1. Melanie Good, Land Conservancy Nature Center
2. William A. Stough, Sustainable Development Consultant

One representative from County government. All government representatives shall be elected officials or a designee of an elected official.

1. Art Tanis, County Commissioner

One representative from township government:

1. Audrey Nevins, Supervisor Byron Township

One representative from city government:

1. Rosalynn Bliss, City of Grand Rapids Commissioner

One representative from the regional solid waste planning agency:

1. None

Three representatives from the general public who reside within the County:

1. Tom Postmus
2. John DeWitt
3. Joyce Tuharsky

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Richmond Transfer Station

County: Kent Location: Town: ___Range: ___Section(s): ___ City of Grand Rapids

Map identifying location included in Attachment Section: ☒ Yes ☐ No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes : Pitsch Sanitary Landfill

☐ Public ☒ Private Owner: Richmond Transfer Station

Operating Status (check)

- ☒ open
- ☐ closed
- ☒ licensed
- ☐ unlicensed
- ☐ construction permit
- ☐ open, but closure
- ☐ pending

Waste Types Received (check all that apply)

- ☒ residential
- ☒ commercial
- ☐ industrial
- ☒ construction & demolition
- ☐ contaminated soils
- ☐ special wastes *
- ☐ other: _

* Explanation of special wastes, including a specific list and/or conditions:

Site Size:

Total area of facility property:	17,000	sq. ft.
Total area sited for use:	___	acres (information not provided)
Total area permitted:	___	acres (information not provided)
Operating:	___	acres (information not provided)
Not excavated:	___	acres (information not provided)
Current capacity:	N/A	<input type="checkbox"/> tons or <input type="checkbox"/> yds ³
Estimated lifetime:	N/A	years
Estimated days open per year:	___	days (information not provided)
Estimated yearly disposal volume:	___	<input type="checkbox"/> tons or <input type="checkbox"/> yds ³ (information not provided)

(if applicable)

Annual energy production:

Landfill gas recovery projects:	N/A	megawatts
Waste-to-energy incinerators:	N/A	megawatts

Data source: Site owner, DEQ Waste Data System and FY 2007 Annual Reports of Solid Waste Landfilled
www.michigan.gov/documents/deq/deq-whm-stsw-ReportSolidWasteLandfilledFY2007_223219_7.PDF
www.deq.state.mi.us/WDSP/Default.aspx

FACILITY DESCRIPTIONS

Facility Type: LIW Pretreatment Plant

Facility Name: Plummer's Environmental Services, Inc.

County: Kent Location: Town: _____ Range: _____ Section(s): _____ Byron Township

Map identifying location included in Attachment Section: ☒ Yes ☐ No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes : South Kent Landfill

☐ Public ☒ Private Owner: Plummer's Environmental Services, Inc.

Operating Status (check)

- ☒ open
- ☐ closed
- ☒ licensed
- ☐ unlicensed
- ☐ construction permit
- ☐ open, but closure
- ☐ pending

Waste Types Received (check all that apply)

- ☐ residential
- ☒ commercial
- ☒ industrial
- ☐ construction & demolition
- ☒ contaminated soils
- ☐ special wastes *
- ☐ other: _

* Explanation of special wastes, including a specific list and/or conditions:

Site Size:

Total area of facility property:	6	acres
Total area sited for use:	6	acres
Total area permitted:	6	acres
Operating:	N/A	acres
Not excavated:	N/A	acres
Current capacity:	N/A	<input type="checkbox"/> tons or <input type="checkbox"/> yds ³
Estimated lifetime:	50	years
Estimated days open per year:	360	days
Estimated yearly disposal volume:	18,000	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds ³

(if applicable)

Annual energy production:		
Landfill gas recovery projects:	N/A	megawatts
Waste-to-energy incinerators:	N/A	megawatts

Data source: Site owner, DEQ Waste Data System and FY 2007 Annual Reports of Solid Waste Landfilled
www.michigan.gov/documents/deq/deq-whm-stsw-ReportSolidWasteLandfilledFY2007_223219_7.PDF
www.deq.state.mi.us/WDSPI/Default.aspx