STATE OF MICHIGAN

JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

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RUSSELL J. HARDING, Director

January 5, 2000

Mr. William Sikkel, Chairperson
Allegan County Board of Commissioners
113 Chestnut Street
Allegan, Michigan 49010

Dear Mr. Sikkel:

The Department of Environmental Quality (DEQ) received the locally approved update to the Allegan County Solid Waste Management Plan (Plan) on May 20, 1999.

The Plan provides for more than ten years of disposal capacity by relying on facilities in other counties to meet the County's final solid waste disposal needs. In addition, Allegan County has authorized its waste to be exported to any of the remaining 74 other Michigan counties. The Plan authorizes the importation of waste from all Michigan counties that authorize exportation to Allegan County in the event that a disposal area is developed in Allegan County in the future.

By approving the Plan, the DEQ has determined that it complies with the provisions of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), and the Part 115 rules concerning the required content of solid waste management plans. Specifically, the DEQ has determined that the Plan identifies the enforceable mechanisms that authorize the state, a county, a municipality, or a person to take legal action to guarantee compliance with the Plan, as required by Part 115. The Plan is enforceable, however, only to the extent the County properly implements these enforceable mechanisms under applicable enabling legislation. The Plan, itself, does not serve as such underlying enabling authority, and the DEQ approval of the Plan neither restricts nor expands the County authority to implement these enforceable mechanisms.

The Plan may also contain other provisions that are neither required nor expressly authorized for inclusion in a solid waste management plan. The DEQ approval of the Plan does not extend to any such provisions. Under Part 115, the DEQ has no statutory authority to determine whether such provisions have any force or effect.

like to thank the County for its efforts in addressing the solid waste management issues in Allegan County.

If you have any questions, you may contact Mr. Seth Phillips, Chief, Solid Waste Management Unit, Waste Management Division, at 517-373-4750.

Sincerely,

Russell J. Harding
Director
517-373-7917

cc: Senator William Van Regenmorter
Representative Patricia L. Birkholz
Ms. Mary Jones, Solid Waste/Recycling Coordinator, Allegan County
Mr. Arthur R. Nash Jr., Deputy Director, DEQ
Ms. Cathy Wilson, Legislative Liaison, DEQ
Mr. Jim Sygo, DEQ
Ms. Joan Peck, DEQ
Mr. Tomas Leep, DEQ - Plainwell
Mr. Seth Phillips, DEQ
Mr. Matt Staron, DEQ

ALLEGAN COUNTY SOLID WASTE MANAGEMENT PLAN

1997 PLAN UPDATE COVER PAGE

The Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), Part 115, Solid Waste Management, and its Administrative Rules, requires that each county have a Solid Waste Management Plan Update (Plan) approved by the Michigan Department of Environmental Quality (DEQ). Section 11539a requires the DEQ to prepare and make available a standardized format for the preparation of these Plan updates. In accordance with State instructions that counties utilize the format without alteration, this document duplicates the table of contents, page numbering system, chapter titles and subject descriptions provided by DEQ.

Date submitted to the DEQ: May 19, 1999

DESIGNATED PLANNING AGENCY PREPARING THIS PLAN UPDATE:

Allegan County Resource Recovery

CONTACT PERSON: Mary H. Jones, Solid Waste/Recycling Coordinator

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CENTRAL REPOSITORY LOCATION(S): Allegan County Health Department

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EXECUTIVE SUMMARY

The following summarizes the solid waste management system selected to manage solid waste within the county. In case of conflicting information between the executive summary and the remaining contents of the Plan update, the information provided in the main body of the Plan update will take precedence over the executive summary.

OVERALL VIEW OF THE COUNTY

Data was provided by Allegan County Economic Development Alliance. Economic and land use information is not available by individual municipality. A breakdown of population by local unit can be found on page II-10a.

	Population	% of Land Use		% of Economic Base*				
Government Unit	(Year 2000 est.)	Rural	Urban	Ag	For	Ind	Com	Oth
Allegan County	103,229	78	22	7	1	37	33	11

Allegan County occupies 829 square miles of mostly rural land, with twenty-five miles of Lake Michigan shoreline and a 45,000 acre State Game Area. Several small towns are centers for urbanization, developing as bedroom enclave communities and business service hubs for Grand Rapids, Kalamazoo and Holland. Recreation and agriculture are important land uses over much of the county's area.

Local government units consist of twenty-four townships, three villages and seven cities. One of the latter, Holland, lies mainly within Ottawa County.

*Ag=Agriculture; For=Forestry; Ind=Industry; Com=Commercial; Oth=All Other Economic Bases

EXECUTIVE SUMMARY

CONCLUSIONS

Allegan County has no landfills and will continue exporting solid waste to satisfy disposal needs. Regional landfill capacity is more than adequate for the ten year planning period. Since the county relies on its neighbors for landfill space, local officials have made a genuine commitment to reduce the volume of discards, funding and implementing a comprehensive recycling program. County, city and township governments cooperate with the private sector to provide a variety of waste reduction services. In consideration of the State's Solid Waste Policy, Allegan County has established the following targets for waste diversion:

	5 Years	10 Years
Reduction	10%	14%
Reuse	5%	7%
Composting	15%	19%
Recycling	25%	35%
Landfill	45%	25%

SELECTED ALTERNATIVE

The following summary defines components of the solid waste management system selected for this plan:

Resource Conservation Efforts

- Expand implementation of county's waste reduction policy and promote as a model for business, industry, and city and township government.
- Expand county's household hazardous waste collection program, sponsoring more events at local fire departments.

Volume Reduction Techniques

- Private sector operation precludes county role in management of this component.

EXECUTIVE SUMMARY

Resource Recovery Programs

- Enhance and expand local curbside and drop-off recycling programs to include all communities in the county.
- Continue to encourage commercial and industrial source separation and recycling efforts.
- Maintain and improve local public and private yard waste collection and composting operations.

Collection Processes

- Private sector operation precludes county role in management of this component.

Transportation

- Private sector operation precludes county role in management of this component.

Disposal Areas

- Continue exporting Type II and Type III solid waste to sanitary landfills in nearby counties.
- Designate sections 1 and 2 of Dorr Township for potential expansion of the existing South Kent Landfill into Allegan County.

Institutional Arrangements

- Expand the number of interlocal agreements between the county and local units of government to provide funding and coordination of recycling services.
- Maintain practice of seeking competitive bids and providing contract management to create cooperative public/private recycling system.
- Promote establishment of volume related fees for disposal.
- Continue membership in the Southwest Michigan Solid Waste Consortium

Educational and Informational Programs

- Expand current public education/information program on waste reduction and resource conservation via County Recycling Coordinator.
- Generate flier and news releases of local programs and environmental issues.
- Explore creation of a web site where residents can access information on recycling.
- Organize annual "Forest Clean-Up" to promote environmental stewardship.

Capital, Operational and Maintenance Costs

- Subsidized by private sector through fees for service.

GOALS AND OBJECTIVES

To comply with Part 115 and its requirements, each Plan must be directed toward goals and objectives based on the purposes stated in Part 115, Sections 11538. (1)(a), 11541.(4) and the State Solid Waste Policy adopted pursuant to this Section, and Administrative Rules 711 (b)(i) and (ii). At a minimum, the goals must reflect two major purposes of Solid Waste Management Plans:

(1) To utilize to the maximum extent possible the resources available in Michigan's solid waste stream through source reduction, source separation, and other means of resource recovery and;

(2) To prevent adverse effects on the public health and the environment resulting from improper solid waste collection, transportation, processing, or disposal, so as to protect the quality of air, the land, and ground and surface waters.

This Solid Waste Management Plan works toward the following goals through actions designed to meet the objectives described under the respective goals which they support:

Goal 1: Maintain a high quality environment and protect public health by establishing an integrated system to provide for the collection, separation, recycling and disposal of solid waste that is generated, processed or transported in Allegan County.

Objective 1a: Fund at least one full-time and one half-time position to help develop, implement, and monitor an integrated waste management system.

Objective 1b: Evaluate proposed waste management facilities, using the siting process described on page III-28, with consideration for adjacent land uses and preservation of air and water quality.

Objective 1c: Coordinate and staff household hazardous waste collection events on three weekends each year (Spring, Summer and Fall) at the Health Department, and once annually for any city or township electing to sponsor a local event.

Objective 1d: Explore enacting a county ordinance which establishes fines and other penalties for illegal dumping of waste and encourages witnesses to report such activity.

Goal 2: Reduce waste volumes through source reduction, recycling and composting so a smaller proportion of the waste stream requires landfill disposal.

Objective 2a: Expand participation in the county's Resource Recovery Program, which is based on intergovernmental cooperation around an established funding mechanism, county management of contracts and finances, and private sector provision of services.

Objective 2b: Increase the number of materials accepted through county sponsored recycling programs whenever market conditions allow.

Objective 2c: Encourage communities which offer only limited recycling opportunities to expand and promote their services.

Objective 2d: Develop a strategy for instituting volume based residential waste disposal charges throughout the county.

Goal 3: Increase public awareness and understanding of solid waste management issues and concerns.

Objective 3a: Maintain an office which people can contact for information about solid waste disposal and recycling.

Objective 3b: Work with local school districts and other education agencies to sponsor instructional programs or special projects on environmental issues associated with waste management.

Objective 3c: Publicize opportunities for recycling, household hazardous waste collections and special events through community fliers or newsletters and newspaper ads and articles. Generate news releases to address specific issues or concerns.

Objective 3d: Coordinate and promote an annual Forest Clean-up on public lands to encourage a broader sense of environmental stewardship among members of the general public.

Objective 3e: Promote the procurement of recycled products by local government, business and industry, using the county's purchasing policy as a model. (County policy requires the selection of recycled content products as long as they do not exceed a 5% price differential over comparable products without recycled content.)

Objective 3f: Explore development of an internet initiative which would allow the public on-line access to information about county and local community waste reduction programs.

Goal 4: Promote regional coordination on solid waste issues.

Objective 4a: Maintain membership in the Southwest Michigan Solid Waste Consortium, exploring potential for cooperative programs and continuing joint waste reduction education efforts.

Objective 4b: Maintain membership in the Michigan Recycling Coalition.

DATA BASE

Identification of sources of waste generation within the county, total quantity of solid waste generated to be disposed, and sources of the information:

SOURCES AND QUANTITY OF SOLID WASTE

Estimates of total waste generation and disposal for Allegan County are based on data contained in the U.S. Environmental Protection Agency's (EPA) Characterization of Municipal Solid Waste in the United States, 1996 Update and the Michigan Department of Environmental Quality's (MDEQ) Report of Solid Waste Landfilled in Michigan October 1, 1996 - September 30, 1997 (Landfill Receipt Report). These sources alone did not seem to provide an accurate, comprehensive description of our waste stream, so staff solicited information from area waste haulers and individual waste generators.

Also, since EPA data were compiled from national statistics and based on that agency's somewhat narrow definition of Municipal Solid Waste (MSW), staff attempted to make some adjustments. EPA numbers were evaluated within the context of Michigan conditions (the yard waste ban and bottle bill) and certain wastes not addressed by EPA were considered for inclusion in this plan: industrial process wastes (such as paper mill sludge), waste water treatment sludge and construction and demolition debris.

The EPA report estimates a per capita MSW generation rate of 4.37 pounds per day nation wide, a figure which seems too high for Allegan County based on what we know from landfill receipts, waste hauler surveys and reported recycling volumes. EPA tables on waste stream composition list yard waste as comprising 14.3% of total MSW (by weight), while beer and soft drink containers add up to 3.6%. Because state statutes essentially eliminate these materials from Michigan's disposable waste stream, the amount of Allegan County MSW requiring disposal is reduced by 17.9% without consideration for local recycling efforts. Combining the 17.9% reduction with current local recovery data results in a disposal calculation which is consistent with the most recent landfill and waste hauler reports.

In this plan, as in the EPA report, MSW is subdivided into two categories: residential and commercial (55% and 45% of total MSW respectively). The commercial waste component includes wastes from schools, institutions and businesses, as well as some industrial wastes (packaging and administrative, not process wastes).

Three paper mills in the Otsego-Plainwell area have historically been large generators of industrial process waste, primarily in the form of paper sludge. Contacts with mill operators indicated that much of this waste is no longer landfilled. The Menasha plant operates an on-site composting project using its sludge and fly ash, while Rock-Tenn's sludge is recycled back into the paper production process. Simpson Plainwell generated about 9,700 tons of sludge waste in

1997, most of which was used to cap the Cork Street Landfill in Kalamazoo County. Beginning in 1998, much of this material began flowing to the Kalamazoo Valley Group (KVG) Landfill, also in Kalamazoo Co., a type III monofill built to receive paper mill residuals from partner manufacturing plants. The KVG Landfill eventually expects to import up to 12,650 tons of this waste annually from Simpson Plainwell.

According to the Surface Water Division of MDEQ's Plainwell office, all municipal waste water treatment plants in Allegan County have approved plans and contracts for land applying their sludge wastes. As no problems with this system are anticipated, volumes of municipal sludge or alternatives for disposal will not be considered further in this plan.

A database distributed in January 1995 by Oakland County's Solid Waste Planning Department estimates that construction and demolition debris (C&D) is generated at the rate of 0.7 pounds per capita, per day. In the absence of local data on this waste stream, that figure was used to calculate the total volume for disposal (haulers report minimal recovery of C&D waste). The resulting C&D estimate, when considered in combination with wastes from other sources, is in line with figures contained in the landfill receipt reports.

Table 1 lists the sources and volumes of waste generated in Allegan County and the amount requiring disposal throughout the planning period. Since the most complete, current information regarding recycling and disposal are from 1997, a 1997 population projection of 99,418 was used to calculate current MSW and C&D generation. The five and ten year totals are based on population estimates of 107,303 and 114,093, respectively. The estimated volume of disposed waste increases only slightly with population growth, in accordance with EPA predictions that source reduction and recycling efforts will continue to expand. The projected advances in County diversion efforts, as described later in this document, are modest and achievable. All totals are expressed in tons per day (TPD), extrapolated from yearly data on the basis of 365 days per year.

Landfill receipt reports indicate that 182,818 cubic yards of Allegan County waste were landfilled in Michigan during the 1996-97 year. This, converted to tons at a 3:1 ratio, amounts to about 167 TPD. This volume seems low, and contacts with area haulers revealed that some of the waste attributed to Kalamazoo by Berrien County facilities, about 14 TPD, was actually from Allegan.

Also, 27 TPD of Simpson Plainwell paper sludge waste, which is now being landfilled, was used to cap a closed facility last year and was not accounted for in the 1996-97 Landfill Receipt Report. Including this figure and the additional 14 TPD exported to Berrien County brings Allegan's current total volume of landfilled waste to 208 TPD.

DATA BASE

Allegan County should have no major problems managing its solid waste over the ten-year planning period. There is sufficient landfill capacity within the region to accommodate our needs, especially if waste reduction efforts continue. The county's progress in funding and implementing recycling programs has already had a significant impact on disposal requirements.

TABLE 1
Waste Generation and Disposal

Waste Category	Current (1997)	Five Years (2003)	Ten Years(2008)
Residential Generation (55% of MSW)	119 TPD	133 TPD	145 TPD
Commercial & Industrial Generation (45% of MSW)	98 TPD	108 TPD	118 TPD
Industrial Process Generation	43 TPD	47 TPD	51 TPD
Construction & Demolition Generation	35 TPD	38 TPD	40 TPD
Total Generated	**295 TPD**	**326 TPD**	**354 TPD**
Total Landfilled	**208 TPD**	**221 TPD**	**228 TPD**

TOTAL QUANTITY OF SOLID WASTE GENERATED:
295 Tons in 1 day

TOTAL QUANTITY OF SOLID WASTE NEEDING DISPOSAL:
208 Tons in 1 day

DATA BASE

Inventory and description of all solid waste disposal areas within the county or to be utilized by the county to meet its disposal needs for the planning period:

Allegan County has nine Type B transfer stations which are provided by local units of government for their own residents. Except for the City of Otsego site, these are all rural facilities, open between nine and fifty-five days per year. There is one Type A transfer station, owned and operated by Lakeshore Disposal, open to the general public five days a week. Detailed information about each of these sites, including the final disposal area utilized, is listed on its facility description form (pages II-3 through II-7).

Allegan County has no landfill and authorizes export of up to 100% of its solid waste to any county in Michigan which includes such waste transfer in its plan. Table 2 lists facilities which have taken Allegan waste in the past and/or are likely to do so in the future, demonstrating sufficient disposal capacity. The current daily volumes are based on historical practice, as well as discussion with county planning staff and landfill operators. Except for the C&C Landfill, which has an expected remaining life span of 7 years, all facilities should be able to accommodate Allegan waste up to the listed potential amounts for the ten-year planning period. Tons per day figures were extrapolated from yearly data and calculated by using 365 days per year. Capacity documentation from facility operators is included in Appendix D.

TABLE 2:
Allegan County Export Volumes (TPD)

County	Facility	Current	Potential
Kent	South Kent	31	100
Ottawa	Autumn Hills	62	105
Ottawa	Ottawa County Farms	35	59
Calhoun	C&C	30	50
Berrien	Southeast Berrien	6	14
Berrien	Orchard Hills	5	9
Berrien	Forest Lawn	3	7
Barry	Hastings Sanitary	8	50
Ionia	Pitch Sanitary	1	20
St. Joseph	Westside	0	20
Kalamazoo	KVG	27	35
TOTAL		208	469

FACILITY DESCRIPTIONS

Facility Type: Type II SOlid Waste Landfill/Processing Plant

Facility Name: Autumn Hills Recycling & Disposal Facility

County: Ottawa Location: Town: 5N Range: 14W Section(s): 36

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : N/A

___ Public X Private Owner: Autumn Hills RFD - A Division or Waste Management of Michigan, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
X	licensed	X	industrial
	unlicensed	X	construction & demolition
X	construction permit	X	contaminated soils
	open, but closure	X	special wastes *
	pending		other:

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

Wood trays, first aid waste, pharmeceuticals, paint booth filters, dewatered sludge, food materials and supplements, epoxy coatings, C& D, wood chips, saw dust, incinerator ash, auto fluff, asbestos, contaminated soils.

Site Size:

Total area of facility property:	314	acres
Total area sited for use:	197	acres
Total area permitted:	99.3	acres
Operating:	35.1	acres
Not excavated:	64.2	acres
Current capacity:	20.75 mil	tons or yds^3
Estimated lifetime:	30.2	years
Estimated days open per year:	286	days
Estimated yearly disposal volume:	500,000	tons or yds^3

(if applicable)

Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Landfill, Type II

Facility Name: Calhoun County C&C Landfill

County: Calhoun County Location: Town: 1S Range: 6W Section(s): 28

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : ____

___ Public X Private Owner: Browning-Ferris Industries

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
X	licensed	X	industrial
	unlicensed	X	construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other: ____

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

Site Size:

Total area of facility property:	223	acres
Total area sited for use:	154.53	acres
Total area permitted:	129	acres
Operating:	10	acres
Not excavated:	8	acres
Current capacity:	6,000,000	tons or yds^3
Estimated lifetime:	7	years
Estimated days open per year:		days
Estimated yearly disposal volume:	1 mil	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	3	megawatts
Waste-to-energy incinerators:		megawatts

FACILITY DESCRIPTIONS

Facility Type: Landfill, Type II

Facility Name: Forest Lawn Landfill

County: Berrien County Location: Town: 8S Range: 20W Section(s): 17

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : ____

___ Public X Private Owner: Forest Lawn Landfill, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
X	licensed	X	industrial
	unlicensed	X	construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending	X	other: fly ash, foundry sand, trees and stumps, wastewater sludges and abestos

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

Site Size:

Total area of facility property:	284	acres
Total area sited for use:	135	acres
Total area permitted:	135	acres
Operating:	26	acres
Not excavated:	78	acres
Current capacity:	15,900,000	tons or yds^3
Estimated lifetime:	15	years
Estimated days open per year:	286	days
Estimated yearly disposal volume:	1,530,000	tons or yds^3

(if applicable)
Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: TypeII Landfill

Facility Name: City Environmental Services Landfill Inc., of Hastings

County: Barry Location: Town: 3w Range: 8n Section(s): 6

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : N.A.

___ Public X Private Owner: ____

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
X	licensed	X	industrial
	unlicensed	X	construction & demolition
X	construction permit	X	contaminated soils
	open, but closure	X	special wastes *
	pending	X	other: Asbestos

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

Foundry Sand, Fly Ash, Waste Water Sludges, Trees & Stumps

Site Size:

Total area of facility property:	330	acres
Total area sited for use:	330	acres
Total area permitted:	48	acres
Operating:	19.5	acres
Not excavated:	28.5	acres
Current capacity:	5,000,000	yds^3
Estimated lifetime:	10+	years
Estimated days open per year:	308	days
Estimated yearly disposal volume:	175,000	tons

(if applicable)

Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Ottawa County Farms Landfill

County: Ottawa Location: Town: 8N Range: 14W Section(s): 26 & 27

Map identifying location included in Attachment Section: ____ Yes x No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : N/A

___ Public X Private Owner: Allied Waste Systems

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
	closed	x	commercial
x	licensed	x	industrial
	unlicensed	x	construction & demolition
x	construction permit	x	contaminated soils
	open, but closure	x	special wastes *
	pending	x	other:

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

Site Size:

Total area of facility property:	240	acres
Total area sited for use:	197	acres
Total area permitted:	240	acres
Operating:	37	acres
Not excavated:	125	acres
Current capacity:	16,500,000	tons or yds^3
Estimated lifetime:	25-30	years
Estimated days open per year:	286	days
Estimated yearly disposal volume:	500,000	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	4.565	megawatts
Waste-to-energy incinerators:	N/A	megawatts

FACILITY DESCRIPTIONS

Facility Type: Landfill, Type II

Facility Name: Orchard Hill Landfill

County: Berrien COunty Location: Town: 3S Range: 7W Section(s): 28 & 33

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : ____

____ Public X Private Owner: Landfill Management Company

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
X	licensed	X	industrial
	unlicensed	X	construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending	X	other: fly ash, foundry sand, trees & stumps, wastewater sludges, and abestos

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

Site Size:

Total area of facility property:	160	acres
Total area sited for use:	119	acres
Total area permitted:	160	acres
Operating:	53	acres
Not excavated:	64	acres
Current capacity:	8,000,000 mil	tons or yds^3
Estimated lifetime:	10+	years
Estimated days open per year:		days
Estimated yearly disposal volume:	402,000	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	Not converted to	megawatts
Waste-to-energy incinerators:	electricity	megawatts

FACILITY DESCRIPTIONS

Facility Type: Landfill Type II

Facility Name: Pitsch Sanitary Landfill

County: Ionia Location: Town: 8N Range: 7W Section(s): 7

Map identifying location included in Attachment Section: _____ Yes x No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : _____

___ Public x Private Owner: Pitsch COmpanies

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
	closed	x	commercial
	licensed		industrial
	unlicensed	x	construction & demolition
	construction permit	x	contaminated soils
	open, but closure	x	special wastes *
	pending		other: _____

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

Street sweepings, Asbestos

Site Size:

Total area of facility property:	143.5	acres
Total area sited for use:	28.36	acres
Total area permitted:	78.44	acres
Operating:	9.87	acres
Not excavated:	70	acres
*Current capacity:	415,000	tons or yds^3
Estimated lifetime:	5	years
Estimated days open per year:	307	days
Estimated yearly disposal volume:	83,000	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

* A 41 acre expansion proposed for 1998 would increase capacity to 4,500,000 cubic yards and estimated lifetime to 22 years.

FACILITY DESCRIPTIONS

Facility Type: Landfill Type II MSW

Facility Name: Southeast Berrien County Landfill

County: Allegan Location: Town: 8S Range: 17W Section(s): 6

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : ____

X Public ____ Private Owner: ____

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
X	licensed	X	industrial
	unlicensed	X	construction & demolition
X	construction permit	X	contaminated soils
	open, but closure	X	special wastes *
	pending	X	other: Asbestos

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

Non-hazardous commercial and industrial wastes that have been approved for disposal.

Site Size:

Total area of facility property:	160	acres
Total area sited for use:	100	acres
Total area permitted:	50	acres
Operating:	42	acres
Not excavated:	8	acres
Current capacity:	1.5 mil	tons or yds^3
Estimated lifetime:	15	years
Estimated days open per year:	275	days
Estimated yearly disposal volume:	600,000	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	____	megawatts
Waste-to-energy incinerators:	____	megawatts

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: South Kent County Landfill

County: Kent Location: Town: 5N Range: 12W Section(s): 36

Map identifying location included in Attachment Section: _____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : _____

x Public ____ Private Owner: _____

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
	closed	x	commercial
x	licensed	x	industrial
	unlicensed	x	construction & demolition
x	construction permit	x	contaminated soils
	open, but closure	x	special wastes *
	pending	x	other: Incinerator ash

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

Site Size:

Total area of facility property:	250	acres
Total area sited for use:	112	acres
Total area permitted:	112	acres
Operating:	31	acres
Not excavated:	81	acres
Current capacity:	7,6000,000	tons or yds^3
Estimated lifetime:	38	years
Estimated days open per year:	310	days
Estimated yearly disposal volume:	155,000	tons or yds^3

(if applicable)
Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Landfill, Type II

Facility Name: Westside Landfill

County: St. Joseph County Location: Town: 6S Range: 12W Section(s): 26

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : ____

___ Public X Private Owner: Waste Management of Michigan d.b.a. Westside RDF

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
X	licensed	X	industrial
	unlicensed	X	construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending	X	other: fly ash, foundry sand, trees & stumps, wastewater sludges, and abestos.

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

Site Size:

Total area of facility property:	640	acres
Total area sited for use:	490	acres
Total area permitted:	85	acres
Operating:		acres
Not excavated:		acres
Current capacity:	1.75 mil	tons or yds^3
Estimated lifetime:	12	years
Estimated days open per year:	300+	days
Estimated yearly disposal volume:	1.2 mil +	tons or yds^3

(if applicable)
Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Landfill, Type III

Facility Name: Kalamazoo Valley Group Landfill

County: Kalamazoo County Location: Town: 2S Range: 9W Section(s): 29

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : ____

____ Public X Private Owner: Kalamazoo Valley Group

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	____	residential
____	closed	____	commercial
X	licensed	____	industrial
____	unlicensed	____	construction & demolition
____	construction permit	____	contaminated soils
____	open, but closure	____	special wastes *
____	pending	X	other: Paper mill residuals from partner facilities

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

Site Size:

Total area of facility property:	200.879	acres
Total area sited for use:	80	acres
Total area permitted:	10	acres
Operating:		acres
Not excavated:		acres
Current capacity:	8.2 mil	tons or yds^3
Estimated lifetime:	33	years
Estimated days open per year:	312	days
Estimated yearly disposal volume:	250,000	tons or yds^3

(if applicable)
Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Lakeshore Disposal

County: Allegan Location: Town: 3N Range: 14W Section(s): 8

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : ____

____ Public X Private Owner: Lakeshore Disposal

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
____	closed	X	commercial
____	licensed	X	industrial
____	unlicensed	X	construction & demolition
____	construction permit	____	contaminated soils
____	open, but closure	____	special wastes *
____	pending	____	other: ____

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

Site Size:

Total area of facility property:	____	acres
Total area sited for use:	____	acres
Total area permitted:	____	acres
Operating:	____	acres
Not excavated:	____	acres
Current capacity:	____	tons or yds^3
Estimated lifetime:	____	years
Estimated days open per year:	312	days
Estimated yearly disposal volume:	52,000	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	____	megawatts
Waste-to-energy incinerators:	____	megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Casco Township Transfer Station

County: Allegan Location: Town: 1N Range: 16W Section(s): 29

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : ____

X Public ____ Private Owner: Casco Township

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
____	closed	____	commercial
____	licensed	____	industrial
X	unlicensed	X	construction & demolition
____	construction permit	____	contaminated soils
____	open, but closure	____	special wastes *
____	pending	____	other: ____

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

Site Size:

Total area of facility property:	65.5	acres
Total area sited for use:	10	acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	56	days
Estimated yearly disposal volume:	916	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Cheshire Township

County: Allegan Location: Town: 1N Range: 14W Section(s): 22

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : Ottawa County Farms

X Public ____ Private Owner: Cheshire Township

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed		commercial
	licensed		industrial
X	unlicensed	X	construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other:

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

Site Size:

Total area of facility property:	54	acres
Total area sited for use:	2	acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	55	days
Estimated yearly disposal volume:	892	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Clyde Township Transfer Station

County: Allegan Location: Town: 2N Range: 15W Section(s): 21

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : Ottawa County Farms Landfill

X Public ____ Private Owner: Clyde Township

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed		commercial
	licensed		industrial
X	unlicensed	X	construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other:

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

Site Size:

Total area of facility property:	80	acres
Total area sited for use:	3	acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	76	days
Estimated yearly disposal volume:	191	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Fillmore Township Transfer Station

County: Allegan Location: Town: 4N Range: 15W Section(s): 16

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : Autumn Hills Landfill

X Public ____ Private Owner: Fillmore Township

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed		commercial
	licensed		industrial
X	unlicensed		construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other:

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

Site Size:

Total area of facility property:	20	acres
Total area sited for use:	3	acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	9	days
Estimated yearly disposal volume:	270 Yds	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Lee Township Transfer Station

County: Allegan Location: Town: 1N Range: 15W Section(s): 28

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : Autumn Hills Landfill

X Public ____ Private Owner: Lee Township

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed		commercial
X	licensed		industrial
	unlicensed		construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other:

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

Site Size:

Total area of facility property:	23	acres
Total area sited for use:	4	acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	125	days
Estimated yearly disposal volume:	195 tons	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Monterey Township Transfer Station

County: Allegan Location: Town: 3N Range: 13W Section(s): 20

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : Ottawa County Farms Landfill

X Public ____ Private Owner: Monterey Township

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed		commercial
	licensed		industrial
X	unlicensed		construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other:

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

Site Size:

Total area of facility property:	40	acres
Total area sited for use:		acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	18	days
Estimated yearly disposal volume:	271 cubic yds	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: City of Otsego Transfer/Recycling Station

County: Allegan Location: Town: 1N Range: 12W Section(s): 22

Map identifying location included in Attachment Section: _____ Yes x No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : C & C Landfill

X Public ____ Private Owner: City of Otsego

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed		commercial
X	licensed		industrial
	unlicensed		construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other:

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

Site Size:

Total area of facility property:	10	acres
Total area sited for use:	3	acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	156	days
Estimated yearly disposal volume:	263 tons	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Overisel Township Transfer Station

County: Allegan Location: Town: 4N Range: 14W Section(s): 17

Map identifying location included in Attachment Section: _____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : Autumn Hills Landfill

X Public ____ Private Owner: Overisel Township

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed		commercial
X	licensed		industrial
	unlicensed		construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other:

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

Site Size:

Total area of facility property:	50	acres
Total area sited for use:	2	acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	20	days
Estimated yearly disposal volume:	800 cubic yds	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Salem Township Transfer Station

County: Allegan Location: Town: 4N Range: 13W Section(s): 22

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : Ottawa County Farms Landfill

X Public ____ Private Owner: Salem Township

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed		commercial
X	licensed		industrial
	unlicensed		construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other:

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

Site Size:

Total area of facility property:	45	acres
Total area sited for use:	2	acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	20	days
Estimated yearly disposal volume:	800 yds	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION INFRASTRUCTURE

The following describes the solid waste collection services and transportation infrastructure that will be utilized within the county to collect and transport solid waste:

Waste Collection

Except for the ten transfer stations described on page II-2, and the special bulk trash collections which some communities obtain through contracts, all solid waste disposal services are provided by the private sector on a subscription basis: each individual customer arranges for service and is billed accordingly. While commercial accounts typically pay by the cubic yard, charges for standard residential service are not always volume related.

Some haulers offer a bag service option for people with only small amounts of trash. With this system, a customer buys special bags from the garbage hauling company and sets them out, when full, on collection day. Payment for disposal is included in the bag cost, so the customer may not receive a bill, and pays only for the actual volume of waste produced. Bag service is promoted by some companies, but most residents don't sign-up for the option.

All parts of the county are served by one or more of the private waste firms listed in Table 3, ensuring that all residents have access to garbage collection. Service areas for each company are subject to frequent change due to mergers or attempts at market expansion.

Recycling Services

In contrast to the established collection system for waste disposal, all residential recycling services in Allegan County are provided by city or township governments through contractual arrangements with private waste companies. In 1990, using a new provision (Public Act of 138 of 1989), of Michigan's Urban Cooperation Act (Public Act 7 of the Extra Session of 1967), Allegan County instituted a special recycling surcharge so local officials could establish effective waste reduction programs without depleting their general funds. The surcharge, which can be billed at any amount up to $25.00 per household per year, is collected only in those communities whose boards or councils have approved an interlocal agreement with the county to join its Resource Recovery program.

The amount of the surcharge is determined by the local government and listed on the property tax bill. Once the money is collected it is turned over to the county and placed in a special fund. All interest generated by this fund remains with the program and is credited to each city's or township's individual account. Up to 85% of the surcharge is dedicated to specific program costs, while 15% is allocated for public education, program planning and administration. The county assumes responsibility for contracts, accounting and program management, issuing regular reports on revenues, expenditures and volumes of materials recycled.

DATA BASE

In response to requests from a local government, the county can expend funds earmarked for that community on any recycling program benefiting its residents. For example, communities can establish curbside service or drop-off sites, composting, appliance and tire collections, or household hazardous days. All services are provided by the private sector through a competitive bid process.

Twenty municipalities participate in the county's Resource Recovery Program, while nine (including the City of Holland, most of which is in Ottawa County) manage and fund services independently. Only two townships have made no contractual arrangements to provide recycling for their residents. Ten communities have established curbside recycling and twenty-two sponsor one or two drop-off sites.

In addition to these efforts, the county operates three monitored depots where residents of participating communities can deliver appliances, tires, household batteries, polystyrene, box board, cardboard, junk-mail, magazines and phone books. Seven or eight household hazardous collection days are held each year.

The recycling surcharge is a household fee, and is used only to fund residentially based waste reduction programs. Businesses and industries can contract for their own recycling, with most haulers providing some level of service. Corrugated collection is widely available, and some companies also pick up mixed office papers.

Allegan County's transportation infrastructure is adequate to accommodate the needs of area waste disposal firms, which rely on trucking. Map A indicates the main roadways which are used to haul waste to disposal areas.

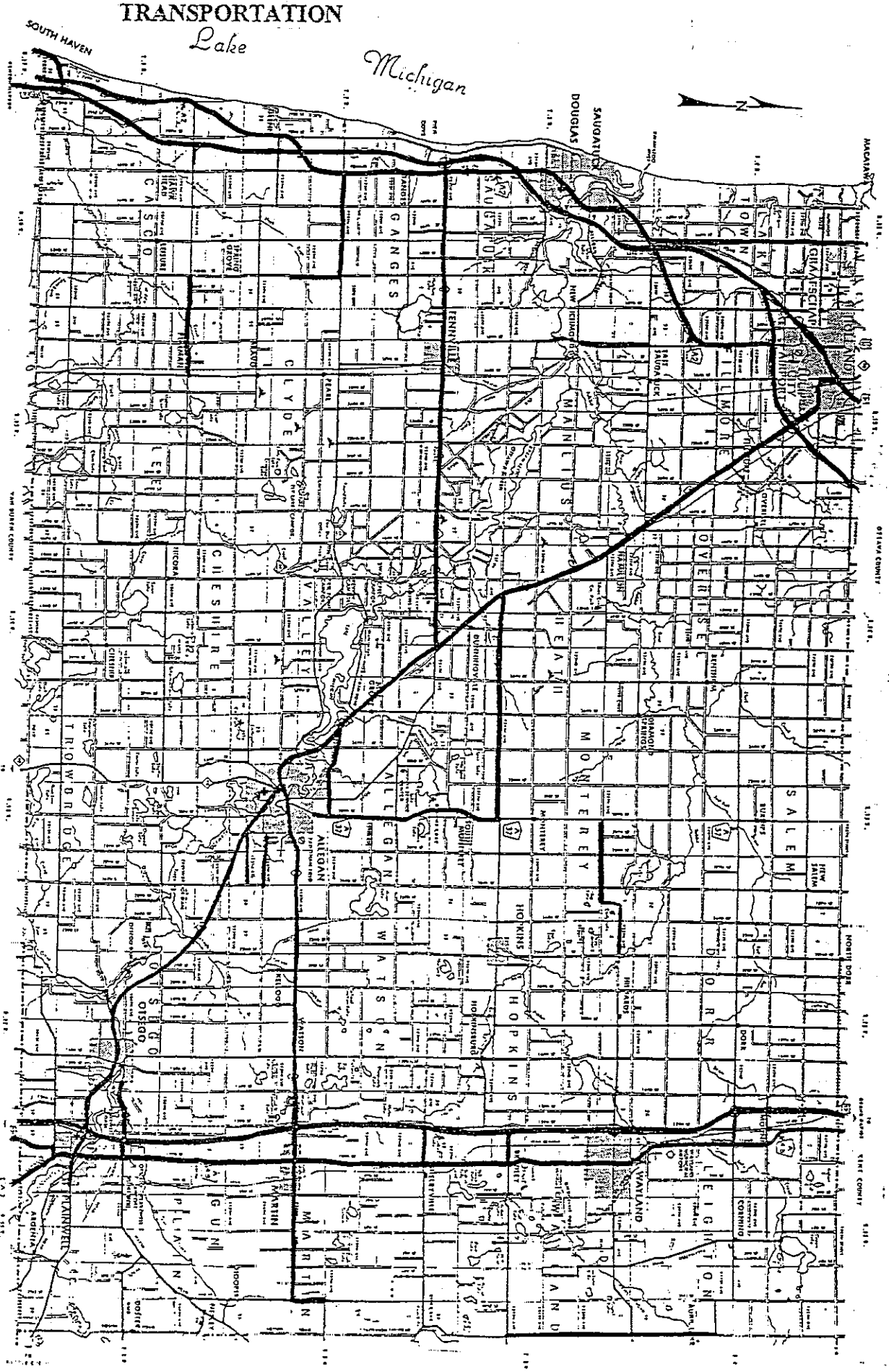
TABLE 3
Disposal Companies

Service Provider	Disposal Facility Used
Lakeshore Disposal	Ottawa Co. Farms and South Kent
Waste Management	Autumn Hills
BFI	C&C
Sunset Waste Services	Ottawa County Farms, Hastings Sanitary and South Kent
Tri-City Recycling & Disposal	Southeast Berrien
Bernie's Haul Away	South Kent
Virg's Refuse	Orchard Hills
Reliable Disposal	Southeast Berrien, Forest Lawn & Orchard Hills
Best Way	Orchard Hills
DeYoung Industrial Disposal	Ottawa Co.Farms & South Kent

MAP A

ALL SEASON ROADS

TRANSPORTATION



EVALUATION OF DEFICIENCIES AND PROBLEMS

The following is a description of problems or deficiencies in the existing solid waste system:

Disposal Costs

The abundant supply of landfill capacity in this area has led to some of the lowest disposal costs in the nation. This in itself is not perceived as a problem, especially by those who promote economic development. However, one indirect result of inexpensive disposal is the lack of incentive to recycle or otherwise reduce wastes. Low, flat rate fees for residential subscription service encourage people to simply discard materials, even when recycling is available. The garbage bill is the same regardless of how much waste is set out, so recycling is often not a high priority.

Many rural transfer stations are heavily subsidized with taxpayer funds so the small per bag or per cubic yard disposal fee appears to be a real bargain. As with the flat rates for subscription service, this eliminates any economic motivation to recycle.

While commercial generators do pay for disposal by the yard, charges are still low enough that only larger companies recognize the potential cost benefits of cutting waste volume. Small businesses often don't believe they will save enough on disposal to justify renting an additional container for corrugated or training their employees to recycle office paper.

Improper Disposal

Despite the wide availability of inexpensive disposal service, Allegan County's environment is sometimes compromised by improper disposal methods. Illegal dumping, especially in the 45,000 acre Allegan State Game Area, is an ongoing problem, and violators are rarely apprehended. Although it is against the law to dump motor oil on the ground, this is still an all too common occurance.

Other disposal practices, while technically legal, are not conducive to maintaining air and water quality over the long term. Some rural residents handle their refuse by creating trash piles or dumps on their own property. With the increasing non-degradability and toxicity of the modern waste stream, this could create problems for future area residents.

Back yard burning of household trash is not prohibited in most rural communities, and people are often indiscriminant about the type of materials they pitch in the burn barrel. Noxious gases and contaminated leachate are potential byproducts.

Businesses and households can legally discard small quantities of certain items, such as fluorescent lighting tubes, batteries, solvents, or pesticides, which are known to be toxic and are legally regulated wastes in larger quantities. This ignores the obvious fact that small volumes, over time, will eventually accumulate the same level of toxins in the environment.

Recycling

Although the county's recycling surcharge has created an effective mechanism for funding recycling, some units of government have elected not to participate in the county program. A history of mistrust and turf wars between county and local governments has created a disincentive to inter-governmental cooperation. Consequently, a couple of townships lack sufficient revenues to offer any recycling, while some others provide only minimal services.

One drawback with the recycling surcharge is its voluntary nature. Because it is not a tax, there is no enforcement mechanism to guarantee payment. Potentially this could create funding gaps, but in seven years of operation that has not yet been the case. However, many local officials are concerned about fairness and want to restrict access to those who don't pay the fee. This factor, combined with the surcharge's unique and confusing legal status, have forced the county to develop somewhat burdensome protocols regarding both the collection of funds and provision of services.

Public Awareness

Another problem associated with recycling is the limited availability of funds for education and promotion. Even for communities participating in the county system, most of the money is dedicated to operational costs, leaving only a small budget for increasing public awareness of programs and expanding participation.

Educating the public is a major challenge across the entire spectrum of waste management options. Helping people understand the relationship between what they consume or discard today and the environmental issues they will face in the future is not an easy task. We are accustomed to thinking only short term while maintaining a narrow focus on the bottom line, a practice not conducive to anticipating long term consequences.

DATA BASE

DEMOGRAPHICS

The following presents current and projected population, population densities, and centers of solid waste generation, including industrial solid waste, for five and ten year periods:

Table 4 provides 1990 census data and population forecasts for the years 2000 and 2010. The projected rate of change between 2000 and 2010 is shown for each unit, indicating the areas which are expected to experience the most growth.

The county's population as a whole increased by 22.5% in the 1970's, and 11% in the 1980's. Grand Valley State University's Office of Economic Expansion, which prepared the population forecasts used in Table 4, anticipates a growth rate of 14% from 1990 to 2000 and 13.2% from 2000 to 2010.

If past trends are any indication, future expansion will likely be concentrated in those areas which are already urbanizing. Map B provides a picture of current population density in Allegan County.

Centers of waste generation correspond with areas of high population density. Greater numbers of people produce higher volumes of residential waste, but commercial and industrial generators also tend to cluster near larger communities. Current and projected volumes (for five and ten years) of residential commercial, industrial and construction waste are presented in Table 1, page II-1b.

TABLE 4
Allegan County Population Growth

Cities	Census 1990	Forecast 2000	Forecast 2010	% Change 2000-2010
Allegan	4,547	4,702	4,833	2.8
Fennville	1,023	1,152	1,281	11.2
Holland (pt.)	5,659	6,809	8,089	18.8
Otsego	3,937	4,079	4,199	2.9
Plainwell	4,057	4,477	4,887	9.2
Saugatuck	972	1,029	1,081	5.1
Wayland	2,751	2,975	3,189	7.2
Townships				
Allegan	3,976	4,581	5,209	13.7
Casco	2,849	3,198	3,547	10.9
Cheshire	1,966	2,322	2,707	16.6
Clyde	2,001	2,206	2,407	9.1
Dorr	5,453	6,695	8,130	21.4
Fillmore	2,710	3,048	3,388	11.2
Ganges	2,124	2,337	2,544	8.9
Gun Plain	4,754	5,508	6,299	14.4
Heath	2,297	2,685	3,097	15.3
Hopkins	2,350	2,606	2,857	9.6
Laketown	4,888	6,176	7,753	25.5
Lee	2,673	3,189	3,755	17.7
Leighton	3,069	3,505	3,953	12.8
Manlius	1,776	1,952	2,123	8.8
Martin	2,487	2,730	2,966	8.6
Monterey	1,534	1,703	1,869	9.7
Otsego	4,780	5,635	6,557	16.4
Overisel	2,341	2,615	2,887	10.4
Salem	2,691	3,158	3,656	15.8
Saugatuck	2,905	3,118	3,318	6.4
Trowbridge	2,328	2,714	3,124	15.1
Valley	1,145	1,430	1,769	23.7
Watson	1,897	2,214	2,549	15.1
Wayland	2,569	2,682	2,788	3.9
County Totals	**90,509**	**103,229**	**116,809**	**13.2**

LAND DEVELOPMENT

The following describes current and projected land development patterns, as related to the Selected Solid Waste Management System, for the next five and ten year periods:

The primary factor driving growth in Allegan County is its convenient location near three larger metropolitan areas. Relatively short commutes and good access to highway systems are conducive to the development of bedroom enclave communities, as more people who are employed in Kalamazoo, Grand Rapids or Holland decide in favor of rural or small town life.

Allegan County also features a fair amount of divided highway: US 131 on the east side of the county and I-196 along the Lakeshore and skirting Holland. This encourages the creation of service hubs for existing West Michigan business enterprise centers, as well as new, small independent firms. Commercial and residential development along major transportation corridors, as shown on Map B, is expected to continue throughout the ten year planning period.

Allegan County's long expanse of Lake Michigan shoreline and 45,000 acre State Game Area invite tourism, which promotes the types of commercial development associated with outdoor recreational activities. This pattern may become even more prevalent over the next decade, as state agencies put more effort into marketing Michigan as a vacation destination.

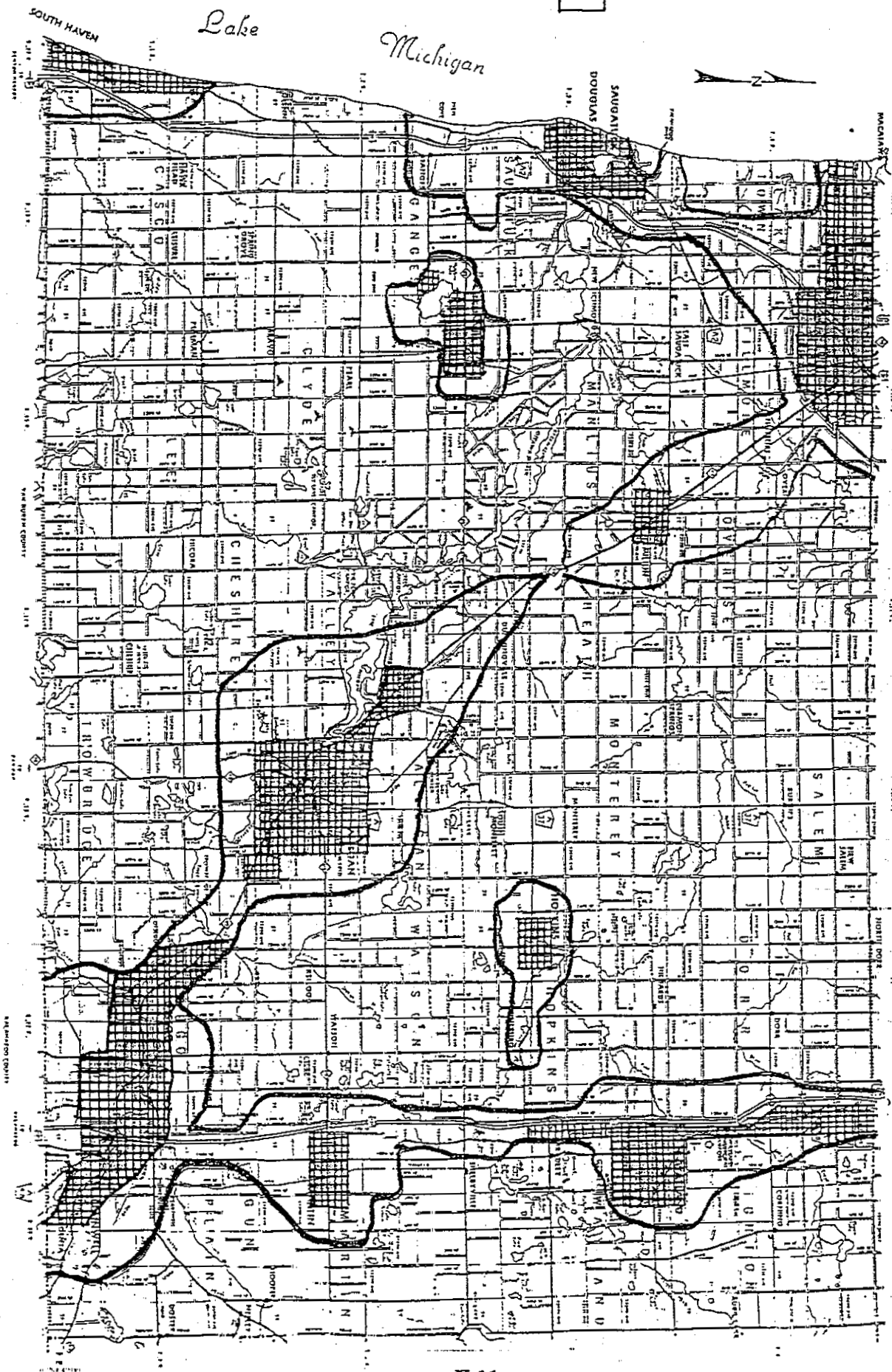
If population growth and land development contiunue to follow current trends and projections, Allegan County will experience no unusual demands on its waste management system. The types and volumes of waste generated are expected to remain relatively stable, and the collection and transportation infrastructure should be adequate to accommodate disposal needs.

MAP B

POPULATION DENSITY

URBAN

URBANIZING



SOLID WASTE MANAGEMENT ALTERNATIVES

The following briefly describes all solid waste management systems considered by the county and how each alternative will meet the needs of the county. The manner of evaluation and ranking of each alternative is also described. Details regarding the Selected Alternative are located in the following section. Details regarding each non-selected alternative are located in Appendix B.

Before deciding on a selected system, the county considered three management system options. These proposed alternatives were discussed by the county solid waste planning committee and evaluated against the goals and objectives set forth in the Introduction to this plan. Alternatives were also judged according to the following criteria:

- -technical feasibility for five and ten-year periods
- -economic feasibility for five and ten-year periods
- -access to land for five and ten-year periods
- -access to transportation networks to accommodate the development and operation of solid waste transporting, processing, and disposal facilities for five and ten-year periods
- -effects on energy for five and ten-year periods, production possibilities and impacts of shortages on solid waste management systems
- -environmental impacts for five and ten-year periods
- -public acceptability

Below is a brief summary of each system, including an assessment of how it addresses the county's needs. Details about the evaluation process and both non-selected systems can be found in Appendix B.

Management System No. 1

This option preserves the current waste management system, described in the Data Base section on page II-2 and II-8 through II-8a. The county would rely on out-of-county landfills and private, subscription based disposal service, while maintaining its prominent role in coordinating the funding and implementation of waste reduction programs. The latter is accomplished through continued use of the Urban Cooperation Act, with interlocal agreements authorizing the county to collect revenues and manage private sector contracts and services.

This approach is an affirmation of the status quo, suggesting no changes or expansions. Because it has been successful in the past, helping Allegan County reduce its volume of disposable waste, there is reason to believe Management System Number 1 would serve the county adequately over the ten-year planning period.

Management System No. 2

While identical to System No. 1 in every other management component, this option specifies that the county pursue development of a new sanitary landfill, public or private, somewhere within its own boundaries. An in-county disposal area could provide some security regarding long-term capacity needs and, through negotiation of host community fees, bring in additional revenues.

However, since income from the landfill would be directly related to the volumes of disposed waste, there is some concern that an in-county facility might undermine support for the concept of waste reduction. Also, the political ramifications of designating a suitable location should not be minimized. People who support the idea of a landfill on principle may be less enthusiastic when specific sites are actually proposed. Funding poses another problem. County government has no inclination to get into the waste business and, with an abundance of regional landfill space, the private sector is not pursuing new sites at this time. Considering these factors, System No. 2 seems less acceptable than System #1.

Management System No. 3

This proposed option is very similar to Management System No. 1. The private sector still provides all waste collection services on a subscription basis but the public sector initiative in promoting waste reduction is enhanced. The county can attempt to expand recycling opportunities by increasing the number of communities participating in the recycling surcharge program. Or, if an alternative funding mechanism is identified, offering the potential to support recycling on a county wide basis, the county could work to implement that approach instead. Either way, the county's goal of diverting more waste from disposal is strongly supported.

In terms of landfill disposal, this option continues the reliance on out-of-county facilities. However, to provide additional assurance of long term capacity, sections 1 and 2 of Dorr Township are identified as potential sites for expansion of the existing South Kent Landfill into Allegan County. In recognition of Kent County's ongoing cooperation in managing our waste stream, such an expansion of this county owned facility, while not expected in the near future, would be considered consistent with Allegan County's Solid Waste Plan.

Because System No. 3 provides an enhanced potential for recycling as well as greater security regarding disposal capacity requirements, it is superior to both Systems No. 1 and 2. Management System No. 3 is the selected solid waste management system for Allegan County.

THE SELECTED SOLID WASTE MANAGEMENT SYSTEM

The Selected Solid Waste Management System (Selected System) is a comprehensive approach to managing the County's solid waste and recoverable materials. The Selected System addresses the generation, transfer and disposal of the County's solid waste. It aims to reduce the amount of solid waste sent for final disposal by volume reduction techniques and by various resource conservation and resource recovery programs. It also addresses collection processes and transportation needs that provide the most cost effective, efficient service. Proposed disposal area locations and capacity to accept solid waste are identified as well as program management, funding, and enforcement roles for local agencies. Detailed information on recycling programs, evaluation, and coordination of the Selected System is included in Appendix B. Following is an overall description of the Selected System:

The management system selected by Allegan County continues to rely on out-of-county landfills for disposal of solid waste. All refuse collection is operated by the private sector, and is obtained on a subscription basis, except for the bulk trash pick-up and transfer station services provided by some communities through contracts with waste companies.

The county is actively involved in recycling, collecting and managing funds in a partnership with local governments formed under provisions of the Urban Cooperation Act. Contracts for recycling services are awarded to the private sector on a competitive bid basis.

IMPORT AUTHORIZATION

If a Licensed solid waste disposal area is currently operating within the County, disposal of solid waste generated by the EXPORTING COUNTY is authorized by the IMPORTING COUNTY up to the AUTHORIZED QUANTITY according to the CONDITIONS AUTHORIZED in Table 1-A.

Table 1-A

CURRENT IMPORT VOLUME AUTHORIZATION OF SOLID WASTE

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME[1]	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS[2]
Allegan	Any other Michigan County which authorizes such export and agrees to accept Allegan County waste on a reciprocal basis.		Up to 100%	Up to 100%	P

___ Additional authorizations and the above information for those authorizations are listed on an attached page.

[1] Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.

[2] Authorization indicated by P = Primary Disposal; C = Contingency Disposal; * = Other conditions exist and detailed explanation is included in the Attachment Section.

If a new solid waste disposal area is constructed and operating in the future in the County, then disposal of solid waste generated by the EXPORTING COUNTY is authorized by the IMPORTING COUNTY up to the AUTHORIZED QUANTITY according to the AUTHORIZED CONDITIONS in Table 1-B.

Table 1-B

FUTURE IMPORT VOLUME AUTHORIZATION OF SOLID WASTE
CONTINGENT ON NEW FACILITIES BEING SITED

NA

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME[1]	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS[2]

___ Additional authorizations and the above information for those authorizations are listed on an attached page.

[1] Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.

[2] Authorization indicated by P = Primary Disposal; C = Contingency Disposal; * = Other conditions exist and detailed explanation is included in the Attachment Section.

EXPORT AUTHORIZATION

If a Licensed solid waste disposal area is currently operating within another County, disposal of solid waste generated by the EXPORTING COUNTY is authorized up to the AUTHORIZED QUANTITY according to the CONDITIONS AUTHORIZED in Table 2-A if authorized for import in the approved Solid Waste Management Plan of the receiving County.

Table 2-A

CURRENT EXPORT VOLUME AUTHORIZATION OF SOLID WASTE

EXPORTING COUNTY	IMPORTING COUNTY	FACILITY NAME[1]	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS[2]
Allegan	Barry		Up to 100%	Up to 100%	P
"	Berrien		"	"	P
"	Calhoun		"	"	P
"	Ionia		"	"	P
"	Kalamazoo		"	"	P
"	Kent		"	"	P

___ Additional authorizations and the above information for those authorizations are listed on an attached page.

[1] Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.

[2] Authorization indicated by P = Primary Disposal; C = Contingency Disposal; * = Other conditions exist and detailed explanation is included in the Attachment Section.

EXPORT AUTHORIZATION

If a. Licensed solid waste disposal area is currently operating within another County, disposal of solid waste generated by the EXPORTING COUNTY is authorized up to the AUTHORIZED QUANTITY according to the CONDITIONS AUTHORIZED in Table 2-A if authorized for import in the approved Solid Waste Management Plan of the receiving County.

Table 2-A

CURRENT EXPORT VOLUME AUTHORIZATION OF SOLID WASTE

EXPORTING COUNTY	IMPORTING COUNTY	FACILITY NAME[1]	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS[2]
Allegan	Ottawa		Up to 100%	Up to 100%	P
"	St. Joseph		"	"	P
"	Any of the 74 other Michigan counties		"	"	P
	which authorize such import. See page II-2				
	for projected quantities by county.				

___ Additional authorizations and the above information for those authorizations are listed on an attached page.

[1] Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.

[2] Authorization indicated by P = Primary Disposal; C = Contingency Disposal; * = Other conditions exist and detailed explanation is included in the Attachment Section.

If a new solid waste disposal area is constructed and operates in the future in another County, then disposal of solid waste generated by the EXPORTING COUNTY is authorized up to the AUTHORIZED QUANTITY according to the AUTHORIZED CONDITIONS in Table 2-B if authorized for import in the approved Solid Waste Management Plan of the receiving County.

Table 2-B

FUTURE EXPORT VOLUME AUTHORIZATION OF SOLID WASTE CONTINGENT ON NEW FACILITIES BEING SITED

NA

EXPORTING COUNTY	IMPORTING COUNTY	FACILITY NAME[1]	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS[2]

___ Additional authorizations and the above information for those authorizations are listed on an attached page.

[1] Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.

[2] Authorization indicated by P = Primary Disposal; C = Contingency Disposal; * = Other conditions exist and detailed explanation is included in the Attachment Section.

SELECTED SYSTEM

SOLID WASTE DISPOSAL AREAS

The following identifies the names of existing disposal areas which will be utilized to provide the required solid waste capacity and management needs for the next ten years. Pages III-7 through III-11 contain descriptions of the solid waste disposal facilities located within and outside of the county which will be utilized over the planning period. Additional in-county facilities with applicable permits and licenses may be used if they are sited by this Plan, or amended into this Plan, and become available for disposal. Facilities in other counties may only be used if such import is authorized in the receiving county's Plan. Facilities outside of Michigan may also be used if legally available for such use.

Type II Landfill:

Autumn Hills
C&C
Forest Lawn
Hastings Sanitary
Ottawa County Farms
Orchard Hill
Pitch Sanitary
Southeast Berrien
South Kent
Westside

Type III Landfill:

Kalamazoo Valley Group

Type A Transfer Facility:

Lakeshore Disposal

Type B Transfer Facility:

Casco Township
Cheshire Township
Clyde Township
Fillmore Township
Lee Township
Monterey Township
Otsego City
Overisel Township
Salem Township

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II SOlid Waste Landfill/Processing Plant

Facility Name: Autumn Hills Recycling & Disposal Facility

County: Ottawa Location: Town: 5N Range: 14W Section(s): 36

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : N/A

___ Public X Private Owner: Autumn Hills RFD - A Division or Waste Management of Michigan, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
X	licensed	X	industrial
	unlicensed	X	construction & demolition
X	construction permit	X	contaminated soils
	open, but closure	X	special wastes *
	pending		other:

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

Wood trays, first aid waste, pharmeceuticals, paint booth filters, dewatered sludge, food materials and supplements, epoxy coatings, C& D, wood chips, saw dust, incinerator ash, auto fluff, asbestos, contaminated soils.

Site Size:

Total area of facility property:	314	acres
Total area sited for use:	197	acres
Total area permitted:	99.3	acres
Operating:	35.1	acres
Not excavated:	64.2	acres
Current capacity:	20.75 mil	tons or yds^3
Estimated lifetime:	30.2	years
Estimated days open per year:	286	days
Estimated yearly disposal volume:	500,000	tons or yds^3

(if applicable)

Annual energy production:

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Landfill, Type II

Facility Name: Calhoun County C&C Landfill

County: Calhoun County Location: Town: 1S Range: 6W Section(s): 28

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : ____

____ Public X Private Owner: Browning-Ferris Industries

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
X	licensed	X	industrial
	unlicensed	X	construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other: ____

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

Site Size:

Total area of facility property:	223	acres
Total area sited for use:	154.53	acres
Total area permitted:	129	acres
Operating:	10	acres
Not excavated:	8	acres
Current capacity:	6,000,000	tons or yds^3
Estimated lifetime:	7	years
Estimated days open per year:		days
Estimated yearly disposal volume:	1 mill	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	3	megawatts
Waste-to-energy incinerators:		megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Landfill, Type II

Facility Name: Forest Lawn Landfill

County: Berrien County Location: Town: 8S Range: 20W Section(s): 17

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : ____

___ Public X Private Owner: Forest Lawn Landfill, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	x	residential
	closed	x	commercial
X	licensed	x	industrial
	unlicensed	x	construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending	x	other: fly ash, foundry sand, trees and stumps, wastewater sludges and abestos

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

Site Size:

Total area of facility property:	284	acres
Total area sited for use:	135	acres
Total area permitted:	135	acres
Operating:	26	acres
Not excavated:	78	acres
Current capacity:	15,900,000	tons or yds^3
Estimated lifetime:	15	years
Estimated days open per year:	286	days
Estimated yearly disposal volume:	1,530,000	tons or yds^3

(if applicable)
Annual energy production:

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: TypeII Landfill

Facility Name: City Environmental Services Landfill Inc., of Hastings

County: Barry Location: Town: 3w Range: 8n Section(s): 6

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes*: N.A.

___ Public X Private Owner: ____

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
X	licensed	X	industrial
	unlicensed	X	construction & demolition
X	construction permit	X	contaminated soils
	open, but closure	X	special wastes *
	pending	X	other: Asbestos

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

Foundry Sand, Fly Ash, Waste Water Sludges, Trees & Stumps

Site Size:

Total area of facility property:	330	acres
Total area sited for use:	330	acres
Total area permitted:	48	acres
Operating:	19.5	acres
Not excavated:	28.5	acres
Current capacity:	5,000,000	yds^3
Estimated lifetime:	10+	years
Estimated days open per year:	308	days
Estimated yearly disposal volume:	175,000	tons

(if applicable)
Annual energy production:

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Ottawa County Farms Landfill

County: Ottawa Location: Town: 8N Range: 14W Section(s): 26 & 27

Map identifying location included in Attachment Section: ____ Yes x No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : N/A

___ Public X Private Owner: Allied Waste Systems

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
	closed	x	commercial
x	licensed	x	industrial
	unlicensed	x	construction & demolition
x	construction permit	x	contaminated soils
	open, but closure	x	special wastes *
	pending	x	other:

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

Site Size:

Total area of facility property:	240	acres
Total area sited for use:	197	acres
Total area permitted:	240	acres
Operating:	37	acres
Not excavated:	125	acres
Current capacity:	16,500,000	tons or yds^3
Estimated lifetime:	25-30	years
Estimated days open per year:	286	days
Estimated yearly disposal volume:	500,000	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	4.565	megawatts
Waste-to-energy incinerators:	N/A	megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Landfill, Type II

Facility Name: Orchard Hill Landfill

County: Berrien COunty Location: Town: 3S Range: 7W Section(s): 28 & 33

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : ____

___ Public X Private Owner: Landfill Management Company

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
X	licensed	X	industrial
	unlicensed	X	construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending	X	other: fly ash, foundry sand, trees & stumps, wastewater sludges, and abestos

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

Site Size:

Total area of facility property:	160	acres
Total area sited for use:	113	acres
Total area permitted:	160	acres
Operating:	53	acres
Not excavated:	64	acres
Current capacity:	8,000,000	~~tons~~ or yds^3
Estimated lifetime:	10±	years
Estimated days open per year:		days
Estimated yearly disposal volume:	402,000	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	Not converted to	megawatts
Waste-to-energy incinerators:	electricity	megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Landfill Type II

Facility Name: Pitsch Sanitary Landfill

County: Ionia Location: Town: 8N Range: 7W Section(s): 7

Map identifying location included in Attachment Section: _____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : _____

___ Public X Private Owner: Pitsch COmpanies

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
	licensed		industrial
	unlicensed	X	construction & demolition
	construction permit	X	contaminated soils
	open, but closure	X	special wastes *
	pending		other: _____

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

Street sweepings, Asbestos

Site Size:

Total area of facility property:	143.5	acres
Total area sited for use:	28.36	acres
Total area permitted:	78.44	acres
Operating:	9.87	acres
Not excavated:	70	acres
*Current capacity:	415,000	tons or yds^3
Estimated lifetime:	5	years
Estimated days open per year:	307	days
Estimated yearly disposal volume:	83,000	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	_____	megawatts
Waste-to-energy incinerators:	_____	megawatts

* A 41 acre expansion proposed for 1998 would increase capacity to 4,500,000 cubic yards and estimated lifetime to 22 years.

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Landfill Type II MSW

Facility Name: Southeast Berrien County Landfill

County: Allegan Location: Town: 8S Range: 17W Section(s): 6

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : ____

X Public ____ Private Owner: ____

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
X	licensed	X	industrial
	unlicensed	X	construction & demolition
X	construction permit	X	contaminated soils
	open, but closure	X	special wastes *
	pending	X	other: Asbestos

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

Non-hazardous commercial and industrial wastes that have been approved for disposal.

Site Size:

Total area of facility property:	160	acres
Total area sited for use:	100	acres
Total area permitted:	50	acres
Operating:	42	acres
Not excavated:	8	acres
Current capacity:	1.5 mil	tons or yds^3
Estimated lifetime:	15	years
Estimated days open per year:	275	days
Estimated yearly disposal volume:	600,000	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	____	megawatts
Waste-to-energy incinerators:	____	megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: South Kent County Landfill

County: Kent Location: Town: 5N Range: 12W Section(s): 36

Map identifying location included in Attachment Section: _____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : _____

X Public ____ Private Owner: _____

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
X	licensed	X	industrial
	unlicensed	X	construction & demolition
X	construction permit	X	contaminated soils
	open, but closure	X	special wastes *
	pending	X	other: Incinerator ash

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

_____

_____

Site Size:

Total area of facility property:	250	acres
Total area sited for use:	112	acres
Total area permitted:	112	acres
Operating:	31	acres
Not excavated:	81	acres
Current capacity:	7,6000,000	tons or yds^3
Estimated lifetime:	38	years
Estimated days open per year:	310	days
Estimated yearly disposal volume:	155,000	tons or yds^3

(if applicable)
Annual energy production:

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Landfill, Type II

Facility Name: Westside Landfill

County: St. Joseph County Location: Town: 6S Range: 12W Section(s): 26

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : ____

___ Public X Private Owner: Waste Management of Michigan d.b.a. Westside RDF

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
X	licensed	X	industrial
	unlicensed	X	construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending	X	other: fly ash, foundry sand, trees & stumps, wastewater sludges, and abestos.

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

Site Size:

Total area of facility property:	640	acres
Total area sited for use:	490	acres
Total area permitted:	85	acres
Operating:		acres
Not excavated:		acres
Current capacity:	1.75 mil	tons or yds^3
Estimated lifetime:	12	years
Estimated days open per year:	300+	days
Estimated yearly disposal volume:	1.2 mil +	tons or yds^3

(if applicable)
Annual energy production:

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Landfill, Type III

Facility Name: Kalamazoo Valley Group Landfill

County: Kalamazoo County Location: Town: 2S Range: 9W Section(s): 29

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : ____

___ Public X Private Owner: Kalamazoo Valley Group

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	___	residential
___	closed	___	commercial
X	licensed	___	industrial
___	unlicensed	___	construction & demolition
___	construction permit	___	contaminated soils
___	open, but closure	___	special wastes *
___	pending	X	other: Paper mill residuals from partner facilities

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

Site Size:

Total area of facility property:	200.879	acres
Total area sited for use:	80	acres
Total area permitted:	10	acres
Operating:		acres
Not excavated:		acres
Current capacity:	8.2 mil	tons or yds^3
Estimated lifetime:	33	years
Estimated days open per year:	312	days
Estimated yearly disposal volume:	250,000	tons or yds^3

(if applicable)
Annual energy production:

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Lakeshore Disposal

County: Allegan Location: Town: 3N Range: 14W Section(s): 8

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : ____

___ Public X Private Owner: Lakeshore Disposal

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
	licensed	X	industrial
	unlicensed	X	construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other: ____

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

Site Size:

Total area of facility property:		acres
Total area sited for use:		acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	312	days
Estimated yearly disposal volume:	52,000	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Casco Township Transfer Station

County: Allegan Location: Town: 1N Range: 16W Section(s): 29

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : ____

X Public ____ Private Owner: Casco Township

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed		commercial
	licensed		industrial
X	unlicensed	X	construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other: ____

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

Site Size:

Total area of facility property:	65.5	acres
Total area sited for use:	10	acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	56	days
Estimated yearly disposal volume:	916	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Cheshire Township

County: Allegan Location: Town: 1N Range: 14W Section(s): 22

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : Ottawa County Farms

X Public ____ Private Owner: Cheshire Township

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed		commercial
	licensed		industrial
X	unlicensed	X	construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other:

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

Site Size:

Total area of facility property:	54	acres
Total area sited for use:	2	acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	55	days
Estimated yearly disposal volume:	892	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Clyde Township Transfer Station

County: Allegan Location: Town: 2N Range: 15W Section(s): 21

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : Ottawa County Farms Landfill

X Public ____ Private Owner: Clyde Township

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed		commercial
	licensed		industrial
X	unlicensed	X	construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other:

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

Site Size:

Total area of facility property:	80	acres
Total area sited for use:	3	acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	76	days
Estimated yearly disposal volume:	191	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Fillmore Township Transfer Station

County: Allegan Location: Town: 4N Range: 15W Section(s): 16

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : Autumn Hills Landfill

X Public ____ Private Owner: Fillmore Township

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed		commercial
	licensed		industrial
X	unlicensed		construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other:

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

Site Size:

Total area of facility property:	20	acres
Total area sited for use:	3	acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	9	days
Estimated yearly disposal volume:	270 Yds	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Lee Township Transfer Station

County: Allegan Location: Town: 1N Range: 15W Section(s): 28

Map identifying location included in Attachment Section: _____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : Autumn Hills Landfill

X Public ____ Private Owner: Lee Township

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed		commercial
X	licensed		industrial
	unlicensed		construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other:

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

Site Size:

Total area of facility property:	23	acres
Total area sited for use:	4	acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	125	days
Estimated yearly disposal volume:	195 tons	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Monterey Township Transfer Station

County: Allegan Location: Town: 3N Range: 13W Section(s): 20

Map identifying location included in Attachment Section: _____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : Ottawa County Farms Landfill

X Public ___ Private Owner: Monterey Township -

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed		commercial
	licensed		industrial
X	unlicensed		construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other:

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

Site Size:

Total area of facility property:	40	acres
Total area sited for use:		acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	18	days
Estimated yearly disposal volume:	271 cubic yds	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: City of Otsego Transfer/Recycling Station

County: Allegan Location: Town: 1N Range: 12W Section(s): 22

Map identifying location included in Attachment Section: _____ Yes x No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : C & C Landfill

X Public ____ Private Owner: City of Otsego

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed		commercial
X	licensed		industrial
	unlicensed		construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other:

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

Site Size:

Total area of facility property:	10	acres
Total area sited for use:	3	acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	156	days
Estimated yearly disposal volume:	263 tons	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Overisel Township Transfer Station

County: Allegan Location: Town: 4N Range: 14W Section(s): 17

Map identifying location included in Attachment Section: _____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : Autumn Hills Landfill

X Public ____ Private Owner: Overisel Township

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed		commercial
X	licensed		industrial
	unlicensed		construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other:

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

Site Size:

Total area of facility property:	50	acres
Total area sited for use:	2	acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	20	days
Estimated yearly disposal volume:	800 cubic yds	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Salem Township Transfer Station

County: Allegan Location: Town: 4N Range: 13W Section(s): 22

Map identifying location included in Attachment Section: ____ Yes X No

If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes : Ottawa County Farms Landfill

X Public ____ Private Owner: Salem Township

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed		commercial
X	licensed		industrial
	unlicensed		construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other:

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

Site Size:

Total area of facility property:	45	acres
Total area sited for use:	2	acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or yds^3
Estimated lifetime:		years
Estimated days open per year:	20	days
Estimated yearly disposal volume:	800 yds	tons or yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:		megawatts
Waste-to-energy incinerators:		megawatts

SELECTED SYSTEM

SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION

The following describes the solid waste collection services and transportation infrastructure which will be utilized within the county to collect and transport solid waste:

The current system, described in detail on pages II-8 through II-8b, will remain in effect with some minor improvements. Disposal services will still be provided by the private sector on a subscription basis, but the county will promote volume related charging as a tool to encourage waste reduction and recycling. The county's road network is sufficiently developed to ensure that all residents have access to garbage collection service.

RESOURCE CONSERVATION EFFORTS:

The following describes the selected system's proposed conservation efforts to reduce the amount of solid waste generated throughout the County. The annual amount of solid waste currently or proposed to be diverted from landfills and incinerators is estimated for each effort to be used, if possible. Since conservation efforts are provided voluntarily and change with technologies and public awareness, it is not this Plan update's intention to limit the efforts to only what is listed. Instead citizens, businesses, and industries are encouraged to explore the options available to their lifestyles, practices, and processes which will reduce the amount of materials requiring disposal.

Effort Description	Est. Diversion Tons/Yr		
	Current	5th yr	10th yr
Yard Waste Collection	4,526	5,457	6,549
Backyard Composting & Grasscycling	6,789	8,187	9,823
Curbside Recycling (Residential)	883	1,073	1,288
Drop-Off Recycling	3,072	3,718	4,461
Household Hazardous Waste Collection	11	15	18
Appliance Collection	143	180	216
Tire Collection	69	83	101
Residential Scrap Metal Collection	306	360	432
Battery Collection	2	4	5
Commercial/Industrial Recycling	6,935	8,355	10,026
Industrial Process Waste Diversion	5,840	7,052	8,462
Bottle Bill	2,920	3,526	4,231
Paper Drives	259	315	378
Total	31,755	38,325	45,990

___ Additional efforts and the above information for those efforts are listed on an attached page.

WASTE REDUCTION, RECYCLING, & COMPOSTING PROGRAMS:

Volume Reduction Techniques

The following describes the techniques used and proposed to be used throughout the County which reduces the volume of solid waste requiring disposal. The annual amount of landfill air space not used as a result of each of these techniques is estimated. Since volume reduction is practiced voluntarily and because technologies change and equipment may need replacing, it is not this Plan update's intention to limit the techniques to only what is listed. Persons within the County are encouraged to utilize the technique that provides the most efficient and practical volume reduction for their needs. Documentation explaining achievements of implemented programs or expected results of proposed programs is attached.

Technique Description	Est. Air Space Conserved Yds^3/Yr		
	Current	5th yr	10th yr
Volume reduction techniques are implemented			
by the private sector. The county is not			
aware of any proposed changes in technology.			

__ Additional efforts and the above information for those efforts are listed on an attached page.

OVERVIEW OF RESOURCE RECOVERY PROGRAMS

The following describes the type and volume of material in the county's waste stream available for recycling or composting programs. Conditions in the county that may affect recycling or composting programs and potential benefits derived from these programs are also discussed. Impediments to recycling or composting programs are listed, followed by a discussion regarding reducing or eliminating such impediments.

A table listing the types and volumes of recoverable materials in the county's waste stream can be found on page A-2 of the Appendix to this plan. Those figures, which do not include municipal treatment or paper sludge wastes, were taken from Southwest Michigan Recycling Market Development Strategy: Part II Background, May 1995.

This report, prepared by Resource Recycling Systems of Ann Arbor and Public Policy Associates of Lansing, was the final product of a study commissioned by the Southwest Michigan Solid Waste Consortium and the CEQ Council of Kalamazoo. The study determined that good regional access to fiber markets should enhance growth in paper recovery, while an abundant supply of food processing waste creates an enterprise opportunity for composting.

Allegan County is well positioned to maintain and even expand waste diversion efforts through its established funding mechanism, described on page II-8. However, like other North American communities, the county's success will be tempered by the public's lack of understanding and committment regarding environmental issues. That, combined with the rampant consumerism so embedded in our culture, presents a daunting challenge for any effort to preserve our natural environment.

While we can never hope to compete with Madison Avenue, the county will continue to provide and support educational programs which encourage more ecologically balanced lifestyles. Volume related charges for waste disposal may also be a tool for motivating people to reconsider the seeminly endless cycle of buying and burying more and more stuff.

Since the county has no landfills of its own, the need for conserving regional disposal capacity is clear. However, the primary reasons for recycling, composting and reducing wastes are, and always will be, to conserve natural resources, reduce air and water pollution and save energy.

[X] Recycling programs within the county are feasible. Details of existing and planned programs are included on the following pages.

[ ] Recycling programs for the county have been evaluated and it has been determined that it is not feasible to conduct any programs because of the following:

SELECTED SYSTEM

[X] Composting programs within the county are feasible. Details of existing and planned programs are included on the following pages.

[ ] Composting programs for the county have been evaluated and it has been determined that it is not feasible to conduct any programs because of the following:

[X] Programs for source separation of potentially hazardous materials are feasible and details are included on the following pages.

[ ] Separation of potentially hazardous materials from the county's waste stream has been evaluated and it has been determined that it is not feasible to conduct any separation programs because of the following:

SELECTED SYSTEM

RECYCLING AND COMPOSTING

The following is a brief analysis of the recycling and composting programs selected for the county in the Plan. Additional information on operation of recycling and composting programs is included in Appendix A. The analysis covers various factors within the county and the impacts of these factors on recycling and composting. Following the written analysis, the tables on pages III-18, 19, & 20 list the existing recycling, composting, and source separation of hazardous materials programs that are currently active in the county and which will be continued as part of this Plan. The second group of tables on pages III-21, 22 & 23 list the recycling, composting, and source separation of hazardous materials programs that are proposed in the future for the county. It is not this Plan update's intent to prohibit additional programs or expansions of current programs to be implemented beyond those listed.

Several factors impacting recycling and composting activities were addressed on page III-15. In spite of the difficulties and because of the need, the county intends to maintain an active role in recycling through its Resource Recovery Program. Under the auspices of the Urban Cooperation Act and interlocal agreements, the county can continue to collect and manage recycling funds for participating communities, assuming responsibility for contract supervision, payment of bills and other administrative tasks.

Should a superior alternative funding mechanism arise, the county may pursue that option but the nature of its involvement with programs would probably not change. A system founded on private sector operations and public sector oversight is consistent with local values and the political climate.

Each year, a portion of the recycling collections is set aside for advertising and other public awareness efforts. Since these resources are very limited, Resource Recovery seeks partnerships with other agencies to expand opportunities for educational programing.

TABLE III-1

RECYCLING:

Program Name	Service Area[1]	Public or Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Management Responsibilities[2] Development	Operation	Evaluation
	Allegan City	Pu/Pr	C	M	A,B,C,D, E,F,F4	1,6	5	1,6
	Casco Township	Pu/Pr	D	W	A,B,C,D,E, F1,F2,F3,F4	1,6	5	1,6
	Cheshire Township	Pu/Pr	D	W	A,B,C,D,E,F, F1,F2,F4,K	1,6	5	1,6
	Dorr Township	Pu/Pr	D	d	A,B,C,D,E, F, F2,F4	1,6	5	1,6
	Fennville City	Pu/Pr	C	m	A,B,C,D,E, F,F1	1,6	5	1,6
	Gun Plain Township	Pu/Pr	C	m	A,B,C,D,E, F, F1,F4	1,6	5	1,6
	Heath Township	Pu/Pr	D	d	A,B,E,F	1,6	5	1,6
	Hopkins Township	Pu/Pr	D	d	A,B,C,D,E, F,F2,F4	1,6	5	1,6
(2 Sites)	Leighton Township	Pu/Pr	D	d	A,B,C,D,E,F, F1,F2,F4	1,6	5	1,6
(2 Sites)	Manlius Township	Pu/Pr	D	d	A,B,C, E,F	1,6	5	1,6

X Additional programs and the above information for those programs are listed on an attached page.

[1] Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.

[2] Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 24); 5 = Private Owner/Operator; 6 = Other (Identified on page 24).

[3] Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

[4] Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter.

[5] Identified by the materials collected by listing of the letter located by that material type. A = Plastics; B = Newspaper; C = Corrugated Containers; D = Other Paper; E = Glass; F = Metals; P = Pallets; J = Construction/Demolition; K = Tires; F.1, F.2 etc. = as identified on page 25. (Includes Boxboard) (Includes magazines)

TABLE III-1

RECYCLING:

Program Name	Service Area[1]	Public or Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Management Responsibilities[2] Development	Operation	Evaluation
	Martin Township	Pu/Pr	D	d	A,B,C,D,E, F,F1,F2,F4	1,6	5	1,6
	Martin/Wayland Township	Pu/Pr	D	d	A,B,E,F	1,6	5	1,6
	Monterey Township	Pu/pr	D	d	A,B,C,D,E, F,F2,F4	1,6	5	1,6
	Otsego City	Pu/Pr	D	3 X sw	A,B,C,D,E,F, F1,F2,F3,F4	1,6	5	1,6
	Otsego City	Pu/Pr	C	m	A,B,C,D,E, F,F4	3	3,5	1,6
	Otsego Township	Pu/Pr	C	b	A,B,C,D,E, F,F1,F4	1,6	5	1,6
	Saugatuck City	Pu/Pr	C	b	A,B,C,D,E, F,F4	1,6	5	1,6
	Saugatuck City	Pu/Pr	D	d	A,B,C,D,E,F, F1,F2,F4	1,6	5	1,6
	Saugatuck Township	Pu/Pr	C	b	A,B,C,D,E, F,F4	1,6	5	1,6
	Salem Township	Pu/Pr	D	d	A,B,C,D,E, F,F2,F4	1,6	5	1,6

X Additional programs and the above information for those programs are listed on an attached page.

[1] Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.

[2] Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 24); 5 = Private Owner/Operator; 6 = Other (Identified on page 24).

[3] Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

[4] Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter.

[5] Identified by the materials collected by listing of the letter located by that material type. A = Plastics; B = Newspaper; C = Corrugated Containers (Includes boxboard); D = Other Paper (Includes magazines); E = Glass; F = Metals; P = Pallets; J = Construction/Demolition; K = Tires; F1, F2 etc. = as identified on page 25.

TABL[illegible]I-1

RECYCLING:

Program Name	Service Area[1]	Public or Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Management Responsibilities[2] Development	Operation	Evaluation
	Valley Township	Pu/Pr	D	d	A,B,C,D,E, F,F2,F4	1,6	5	1,6
	Wayland City	Pu/Pr	C	b	A,B,C,D,E F,F4	1,6	5	1,6
	Wayland Township	Pu/Pr	D	d	A,B,C,D,E, F2,F4	1,6	5	1,6
Lakeshore Monitored Depot	Allegan County	Pu/Pr	D	b	C,D,K,F,F1 F2,F3,F4	1,5	5	1,5
Hiscock Monitored Depot	Allegan County	Pu/Pr	D	b	C,D,K,F,F1 F2,F3,F4	1,5	5	1,5
Salem Monitored Depot	Allegan County	Pu/Pr	D	b	C,D,K,F,F1 F2,F3,F4	1,5	5	1,5
	Allegan Township	Pu/Pr	D	6 x w	A,B,E,F	6	5	6
Transfer Station	Clyde & Ganges Township	Pu/Pr	D	w	B,F,	6	5	6
	Fillmore Township	Pu/Pr	D	d	A,B,E,F	6	5	6
	Laketown Township	Pu/Pr	D	d	A,B,E,F	6	5	6

X Additional programs and the above information for those programs are listed on an attached page.

[1] Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.

[2] Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 24); 5 = Private Owner/Operator; 6 = Other (Identified on page 24).

[3] Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

[4] Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter.

[5] Identified by the materials collected by listing of the letter located by that material type. A = Plastics; B = Newspaper; C = Corrugated Containers (including boxboard); D = Other Paper (including magazines); E = Glass; F = Metals; P = Pallets; J = Construction/Demolition; K = Tires; F1, F2 etc. = as identified on page 25.

TABLE III-1

RECYCLING:

Program Name	Service Area[1]	Public or Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Management Responsibilities[2] Development	Operation	Evaluation
	Lee Township	Pu/Pr	D	w	A,B,E,F	6	5	6
	Overisel Township	Pu/Pr	D	d	A,B,E,F	6	5	6
	Trowbridge Township	Pu/Pr	D	6 x w	A,B,C,D,E, F,F3,K	6	5	6
	Watson Township	Pu/Pr	D	d	A,B,E,F	6	5	6
	Plainwell City	Pu/Pr	C	m	A,B,C,D,E, F,F4	6	5	6
	Holland City	Pu/Pr	C	b	A,B,E,F	6	5	6

____ Additional programs and the above information for those programs are listed on an attached page.

[1] Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.

[2] Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 24); 5 = Private Owner/Operator; 6 = Other (Identified on page 24).

[3] Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

[4] Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter.

[5] Identified by the materials collected by listing of the letter located by that material type. A = Plastics; B = Newspaper; C = Corrugated Containers; D = Other Paper; E = Glass; F = Metals; P = Pallets; J = Construction/Demolition; K = Tires; F 1, F 2 etc. = as identified on page 25.

(Including boxboard) (Including magazines)

TABLE III-2

COMPOSTING:

Program Name	Service Area[1]	Public or Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Management Responsibilities[2] Development	Operation	Evaluation
Leaf & Brush Pick-up	Otsego City	Pu	c	Sp,Fa	L,W,	3	3	3
Leaf & Brush Pick-up	Wayland City	Pu	c	Sp,Fa	L,W	3	3	3
Leaf & Brush Pick-up	Saugatuck City	Pu	c	Sp,Fa	L,W	3	3	3
Leaf & Brush Pick-up	Allegan City	Pu/Pr	c	Sp,Fa	L,W	1	3 & 5	3
Leaf & Brush Pick-up	Plainwell City	Pu/Pr	c	Sp,Fa	L,W	3	3 & 5	1 & 5
Leaf & Brush Pick-up	Holland City	Pr/Pu	c	Sp,Fa	L,W	3	3 & 5	3
Yard Waste Drop-off	Dorr Township	pu/Pr	D	Sp,Fa	L,G,W	1	3 & 5	1 & 5
Menasha	Otsego Plant	Pu/Pr	0	d	F5,l	5	5	5
Waste Disposal Companies	County	Pr	c	b,Sp,Su, Fa,	L,G,W	5	5	5

___ Additional programs and the above information for those programs are listed on an attached page.

[1] Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.

[2] Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 24); 5 = Private Owner/Operator; 6 = Other (Identified on page 24).

[3] Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

[4] Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter.

[5] Identified by the materials collected by listing of the letter located by that material type. G = Grass Clippings; L = Leaves; F = Food; W = Wood; P = Paper; S = Municipal Sewage Sludge; A = Animal Waste/Bedding; M = Municipal Solid Waste; F 1, F 2 etc. = as identified on page 25.

TABLE III-3

SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS:

Since improper disposal of nonregulated hazardous materials has the potential to create risks to the environment and human health, the following programs have been implemented to remove these materials from the County's solid waste stream.

Program Name	Service Area[1]	Public or Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Management Responsibilities[2] Development	Operation	Evaluation
Health Dept. HHW Day	County wide	Pu-pr	d	Sp,Su,Fa	AR,A,AN, B2,C,H, P,PS.PH, OT*			
Wayland HHW Day	Northeast Allegan Co.	Pu-Pr	d	Su	" "			
Saugatuck HHW Day	Northwest Allegan Co.	Pu-pr	d	Su	" "			
Drug & Lab Disposal	Plainwell, County-wide	Pu-Pr	d	d**	" "			
*Propane cylinders, fire-extinguishers, unknowns								
**By appointment								

___ Additional programs and the above information for those programs are listed on an attached page.

[1] Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.

[2] Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 24); 5 = Private Owner/Operator; 6 = Other (Identified on page 24).

[3] Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

[4] Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter.

[5] Identified by the materials collected by listing of the letter located by that material type. AR = Aerosol Cans; A = Automotive Products except Used Oil, Oil Filters & Antifreeze; AN = Antifreeze; B1 = Lead Acid Batteries; B2 = Household Batteries; C = Cleaners and Polishers; H = Hobby and Art Supplies; OF = Used Oil Filters; P = Paints and Solvents; PS = Pesticides and Herbicides; PH = Personal and Health Care Products; U = Used Oil; OT = Other Materials and identified.

TABLE III-4

PROPOSED RECYCLING:

Program Name (if known)	Service Area[1]	Public or Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Management Responsibilities[2] Development	Operation	Evaluation
County will work to initiate new programs in communities with little or no recycling and to increase convenience and the variety of materials collected in other communities. Since activity is contingent upon negotiation of future interlocal agreements, names of municipalities cannot be listed at this time.								

____ Additional programs and the above information for those programs are listed on an attached page.

[1] Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.

[2] Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 24); 5 = Private Owner/Operator; 6 = Other (Identified on page 24).

[3] Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

[4] Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter.

[5] Identified by the materials collected by listing of the letter located by that material type. A = Plastics; B = Newspaper; C = Corrugated Containers; D = Other Paper; E = Glass; F = Metals; P = Pallets; J = Construction/Demolition; K = Tires; L1, L2 etc. = as identified on page 25.

TABLE III-5

PROPOSED COMPOSTING:

Program Name, (if known)	Service Area[1]	Public or Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Management Responsibilities[2] Development	Operation	Evaluation
County will assist any municipality which chooses to initiate a new composting program, but will rely primarily on private sector disposal companies which provide yard waste collection on a subscription basis. County will also promote backyard composting.								

____ Additional programs and the above information for those programs are listed on an attached page.

[1] Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.

[2] Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 24); 5 = Private Owner/Operator; 6 = Other (Identified on page 24).

[3] Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

[4] Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter.

[5] Identified by the materials collected by listing of the letter located by that material type. G = Grass Clippings; L = Leaves; F = Food; W = Wood; P = Paper; S = Municipal Sewage Sludge; A = Animal Waste/Bedding; M = Municipal Solid Waste; L1, L2 etc. = as identified on page 25.

TABLE III-6

PROPOSED SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS:

Program Name, (if known)	Service Area[1]	Public or Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Management Responsibilities[2] Development	Operation	Evaluation
County can sponsor a HHW day in any community with a suitable collection site.								

____ Additional programs and the above information for those programs are listed on an attached page.

[1] Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.

[2] Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 24); 5 = Private Owner/Operator; 6 = Other (Identified on page 24).

[3] Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

[4] Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter.

[5] Identified by the materials collected by listing of the letter located by that material type. AR = Aerosol Cans; A = Automotive Products except Used Oil, Oil Filters & Antifreeze; AN = Antifreeze; B1 = Lead Acid Batteries; B2 = Household Batteries; C = Cleaners and Polishers; H = Hobby and Art Supplies; OF = Used Oil Filters; P = Paints and Solvents; PS = Pesticides and Herbicides; PH = Personal and Health Care Products; U = Used Oil; OT = Other Materials and identified.

SELECTED SYSTEM

IDENTIFICATION OF RESOURCE RECOVERY MANAGEMENT ENTITIES

The following identifies those public and private parties, and the resource recovery or recycling programs for which they have management responsibilities.

Public:

The county, in cooperation with local government boards and councils, manages recycling programs in these communities: the cities of Allegan, Fennville, Otsego, Saugatuck and Wayland; and the townships of Casco, Cheshire, Dorr, Gun Plain, Heath, Hopkins, Leighton, Manlius, Martin, Monterey, Otsego, Salem, Saugatuck, Valley and Wayland.

The following local units are solely responsible for recycling programs in their communities: The cities of Holland and Plainwell; and the townships of Allegan, Clyde, Fillmore, Ganges, Laketown, Lee, Overisel, Trowbridge and Watson.

Private:

Privately owned waste management companies supervise recycling operations under contracts with local governments.

PROJECTED DIVERSION RATES:

The following estimates the annual amount of solid waste which is expected to be diverted from landfills and incinerators as a result of the current resource recovery programs and in five and ten years.

Collected Material:	Projected Annual Tons Diverted: Current	5th Yr	10th Yr	Collected Material:	Projected Annual Tons Diverted: Current	5th Yr	10th Yr
A. TOTAL PLASTICS:	502	613	736	G. GRASS AND LEAVES:	8,395	10,118	12,141
B. NEWSPAPER:	1,627	1,955	2,346	H. TOTAL WOOD WASTE:	2,920	3,526	4,231
C. CORRUGATED CONTAINERS:	3,349	4,024	4,829	I. CONSTRUCTION AND DEMOLITION:	---	---	---
D. TOTAL OTHER PAPER:	3,675	4,446	5,335	J. FOOD AND FOOD PROCESSING:	---	---	---
E. TOTAL GLASS:	2,533	3,066	3,679	K. TIRES:	69	83	101
F. OTHER MATERIALS:				L. TOTAL METALS:	2,700	3,258	3,909
Household Batteries	2	4	5	F3. Appliances	143	180	216
F2. Poly-foam	Included	in plastics		F4. Phone books	included	in other	papers
				F5: Paper sludge	5,840	7,052	8,462

MARKET AVAILABILITY FOR COLLECTED MATERIALS:

The following identifies how much volume that existing markets are able to utilize of the recovered materials which were diverted from the County's solid waste stream.

Collected Material:	In-State Markets	Out-of-State Markets	Collected Material	In-State Markets	Out-of-State Markets
A. TOTAL PLASTICS:	80%	20%	G. GRASS AND LEAVES:	100%	
B. NEWSPAPER:	100%		H. TOTAL WOOD WASTE:	100%	
C. CORRUGATED CONTAINERS:	100%		I. CONSTRUCTION AND DEMOLITION:		
D. TOTAL OTHER PAPER:	90%	10%	J. FOOD AND FOOD PROCESSING		
E. TOTAL GLASS:	90%	10%	K. TIRES:	50%	50%
F. OTHER MATERIALS:			L. TOTAL METALS:	100%	
F1 Batteries		100%	F3 Appliances	100%	
			F4		

EDUCATIONAL AND INFORMATIONAL PROGRAMS:

It is often necessary to provide educational and informational programs regarding the various components of a solid waste management system before and during its implementation. These programs are offered to avoid miscommunication which results in improper handling of solid waste and to provide assistance to the various entities who participate in such programs as waste reduction and waste recovery. Following is a listing of the programs offered or proposed to be offered in this County.

Program Topic[1]	Delivery Medium[2]	Targeted Audience[3]	Program Provider[4]
1,2,3,4	N,F	P	DPA
1,2,3,4	W	S K-12	DPA
*1,2,3,4,5,	Eco-Expo	S 2-12	DPA-ISD
4	Forest Clean-up	P	DPA-OO (Lakeshore, DeYoung Disposal)

* A two day annual event displaying student science, art or writing projects created around environmental themes. Classrooms from all over Allegan County attend on field trips to participate in a variety of hands-on activities and environmental presentations.

[1] Identified by 1 = recycling; 2 = composting; 3 = household hazardous waste; 4 = resource conservation; 5 = volume reduction; 6 = other which is explained.

[2] Identified by w = workshop; r = radio; t = television; n = newspaper; o = organizational newsletters; f = flyers; e = exhibits and locations listed; and ot = other which is explained.

[3] Identified by p = general public; b = business; i = industry; s = students with grade levels listed. In addition if the program is limited to a geographic area, then that county, city, village, etc. is listed.

[4] Identified by EX = MSU Extension; EG = Environmental Group (Identify name); OO = Private Owner/Operator (Identify name); HD = Health Department (Identify name); DPA = Designated Planning Agency; CU = College/University (Identify name); LS = Local School (Identify name); ISD = Intermediate School District (Identify name); O = Other which is explained.

___ Additional efforts and the above information for those efforts are listed in Appendix E.

TIMETABLE FOR SELECTED SYSTEM IMPLEMENTATION

This timetable is a guideline to implement components of the Selected System. The timeline gives a range of time in which the component will be implemented. Timelines may be adjusted later, if necessary.

TABLE III-7

Management Components	Timelines
Resource Conservation:	
Increase public education	Ongoing
Expand waste reduction and recycled content purchasing policy	1999-2003
Expand household hazardous waste program	Ongoing
Resource Recovery:	
Expand recycling programs county wide	2000-2005
Encourage commercial recycling	Ongoing
Promote backyard composting	Ongoing
Continue public and private yard waste collection	Ongoing
Disposal Areas:	
Export to out-of-county facilities	Ongoing
Designate area for potential expansion of South Kent Landfill	1998
Institutional Arrangements:	
Negotiate interlocal agreements with new communities	2000-2003
Renew current interlocal agreements	2000
Promote volume related charging	1999-2002
Consider illegal dumping ordinance	2000-2003

SELECTED SYSTEM

SITING REVIEW PROCEDURES

AUTHORIZED DISPOSAL AREA TYPES

The following solid waste disposal area types may not be sited by this Plan. Any proposal to construct a facility listed herein shall be deemed inconsistent with this Plan:

N/A

SITING PROCESS

The following process incorporates the criteria and procedures used to site solid waste disposal facilities and determine their consistency with this Plan:

Proposals for all new disposal areas, including solid waste landfills, transfer stations and processing plants, must conform to the criteria contained in this section before a determination of consistency may be issued. To initiate a review for consistency, a prospective applicant must submit a notice of intent to the county's designated planning agency. Since the county has sufficient disposal capacity for ten years it may, by vote of the solid waste planning committee, refuse to activate this siting process to consider an application. The applicant will be notified of the committee's decision not more than 45 days after submitting his or her initial notice. If the solid waste planning committee does not respond within this time period, the siting process will be activated.

Once the siting process is activated, the applicant will have 90 days to submit a formal application. The solid waste planning committee may, at it's discretion, approve an extension of this deadline. Solid waste siting proposals will then be reviewed for consistency with the Plan by the designated planning agency and approved by the county solid waste planning committee according to the procedures outlined herein. A proposal that is declared to be consistent with the Plan shall become part of the Plan upon issuance of a construction permit by the DEQ.

To initiate formal review under this Plan, the facility developer shall submit the application information required below to the county designated planning agency. A reasonable number of additional copies may be required at the discretion of the designated planning agency.

Upon receipt of the application, the designated planning agency shall review the application for administrative completeness in accordance with the requirements listed below. If it is not complete, the developer shall be notified and given the opportunity to provide additional information to make the application complete. If no determination is made within thirty days, the application shall be considered administratively complete.

SELECTED SYSTEM

Application Requirements

- The application shall include a name, address, and telephone number for the applicant (including partners and other ownership interests), the property owners(s) of the site, any consulting engineers and geologists that will be involved in the project, a designated contact person for the facility developer (if different than the applicant), and shall specify the type of facility being proposed.

- The application shall contain information on the site location and orientation. This shall include a legal land description of the project area, a site map showing all roadways and principal land features within two miles of the site, a topographic map with contour intervals of no more than ten feet for the site, a map and description of all access roads showing their location, type of surface material, proposed access point to facility, haul route from access roads to nearest state trunkline, and a current map showing the zoning of the proposed site and surrounding zoning, domiciles, public & private water supplies, and present usage of all property within one mile of the site.

- The application shall contain a description of the current site use and ground cover, a map showing the locations of all structures within 1,200 feet of the perimeter of the site, the location of all existing utilities, the location of the 100 year floodplain (as defined by Rule 323.311 of the administrative rules of Part 31, Water Resources Protection, of Act 451, as amended) within 1,200 feet of the site, location of all wetlands (as defined by Part 303, Wetlands Protection, of Act 451) within 1,200 feet of the site, and the site soil types and general geological characteristics.

- The application shall contain a description of the proposed site and facility design. This shall consist of a written proposal including the final design capacity.

- The application shall contain a description of the operations of the facility and shall provide information indicating the planned annual usage, anticipated sources of solid waste, and the facility's life expectancy.

- If necessary to satisfy the requirements of criteria number 12 below, the application shall include a signed agreement indicating the willingness of the developer to provide for road improvements and/or maintenance.

Within sixty days from the date the application is determined to be administratively complete, the designated planning agency shall complete the consistency review and make its recommendation to the county solid waste management planning committee who shall send the county's written final determination of consistency for the proposal to the applicant. To be found consistent with the Plan, all proposed solid waste disposal areas must comply with the siting criteria and requirements described in numbers 1-12 below. Sanitary landfills must also comply with numbers 13 and 14.

SELECTED SYSTEM

Siting Criteria

1. The active work area for a new facility or expansion of an existing facility shall not be located closer than 500 feet from adjacent property lines, road rights-of-way, lakes, and perennial streams.

2. The active work area for a new facility or expansion of an existing facility shall not be located closer than 1,000 feet from domiciles or public schools existing at the time of submission of the application.

3. A facility shall not be located in a 100 year floodplain as defined by Rule 323. 311 of the administrative rules of Part 31, Water Resources Protection, of Act 451.

4. A facility shall not be located in a wetland regulated by Part 303, Wetlands Protection, of Act 451, unless a permit is issued.

5. A facility shall not be constructed on lands enrolled under Part 361, Farmland and Open Space Preservation, of Act 451.

6. A facility shall not be located in an area defined in Section 32301 of Part 323, Shorelands Protection and Management, of Act 451, or in areas of unique habitat as defined by the Department of Natural Resources, Natural Features Inventory.

7. A facility shall not be located in an area of groundwater recharge as defined by the United States Geological Survey or in a wellhead protection area as approved by the DEQ.

8. A facility shall not be located in a designated historic or archaeological area as defined by the state historical preservation officer.

9. A facility shall not be located or permitted to expand on land owned by the United States of America or the State of Michigan. Disposal areas may be located on State land only if both of the following conditions are met:

   a) Thorough investigation and evaluation of the proposed site by the facility developer indicates, to the satisfaction of the DEQ, that the site is suitable for such use.

   b) The State determines that the land may be released for disposal area purposes and the facility developer acquires the property in fee title from the State in accordance with state requirements for such acquisition.

SELECTED SYSTEM

10. Facilities may only be located on property zoned as agricultural, industrial, commercial, or other designation appropriate for solid waste disposal activity at the time the facility developer applies to the county for a determination of consistency under the Plan. Facilities may be located on unzoned property, but may not be located on property zoned residential.

11. The owner and operator of a facility shall agree to cooperate with the county on all current and future recycling and composting activities.

12. A facility shall be located on a paved, all weather "class a" road. If a facility is not on such a road, the developer shall agree to provide for upgrading and/or maintenance of the road serving the facility.

13. A sanitary landfill shall not be constructed within 10,000 feet of a licensed airport runway.

14. The applicant for a new landfill must submit a written statement indicating that:

    a) the proposed facility is consistent with proven technologies and Part 115 of Act 451, 1994;
    b) all haulers will be treated equitably and impartially;
    c) local regulations concerning landscaping and screening; hours of operation; facility security; noise, litter, odor, and dust control will be observed.

If the facility developer does not agree with the county's consistency decision, or if the county has issued no consistency determination within 90 days of receiving the application, the developer may request the DEQ to determine consistency of the proposal with the Plan as part of DEQ review of a construction permit application.

If the proposal is found to be inconsistent with the Plan, the facility developer may provide additional information to address the identified deficiencies. The designed planning agency may determine consistency on such a resubmittal only in regards to those parts of the proposal which have been modified.

The final determination of consistency with the Plan shall be made by the DEQ upon submittal by the developer of an application for a construction permit. The DEQ shall review the determination made by the county to ensure that the criteria and review procedures have been properly adhered to by the county.

SOLID WASTE MANAGEMENT COMPONENTS

The following identifies the management responsibilities and institutional arrangements necessary for the implementation of the Selected Waste Management System. Also included is a description of the technical, administrative, financial and legal capabilities of each identified existing structure of persons, municipalities, counties and state and federal agencies responsible for solid waste management including planning, implementation, and enforcement.

The county assumes most of the management responsibility for implementing the selected system. The county's role is defined by a variety of contracts and institutional arrangements. Interlocal agreements with participating municipalities, negotiated under the Urban Cooperation Act, place the county in charge of administrative, financial and technical tasks associated with recycling surcharge supported activities. However, these agreements do delineate some local government control over the types of programs implemented or selection of service providers.

Allegan County belongs to the Southwest Michigan Solid Waste Consortium, a regional committee also established by interlocal agreement under the Urban Cooperation Act. This organization is primarily a vehicle for sharing information and cooperating on planning issues. Member counties, which include Allegan, Berrien, Calhoun, Cass, Kalamazoo, St. Joseph and Van Buren, pay annual dues to support cooperative educational efforts in the area of composting, recycled content purchasing, or household hazardous waste management.

Recycling services, as previously stated, are retained under contract with private sector providers who compete through an open bid process. The county oversees contract performance and reserves the right to terminate any contract for cause.

Theoretically, any of these legal arrangements could be enforced through litigation. In reality, this is unlikely, since parties enter agreements voluntarily and only after careful consideration of the issues. The county is committed to the goal of continued cooperation with both private and public participants in the selected system.

For some projects, the county seeks informal partnerships with other entities, such as the Allegan County Area Math and Science Center, Intermediate School District, Department of Natural Resources, local garden clubs, or church and civic groups.

The county ensures ongoing communication with the West Michigan Regional Planning Commission by appointing its Board representative for that agency to serve on the solid waste management planning committee.

SELECTED SYSTEM

IDENTIFICATION OF RESPONSIBLE PARTIES

Document which entities within the County will have management responsibilities over the following areas of the Plan:

Resource Conservation:

Source or Waste Reduction:	Designated planning agency (DPA), through educational programming
Product Reuse:	DPA, through educational programming
Reduced Material Volume:	Private Sector
Increased Product Lifetime:	Private Sector
Decreased Consumption:	DPA, through educational programming

Resource Recovery Programs:

Composting:	DPA (backyard composting) and local governments (municipal yard waste collection); private sector waste firms (subscription yard waste service)
Recycling:	DPA (funding, coordination, education, bids, contracts and program evaluation)
Energy Production:	N/A

Volume Reduction Techniques: Private Sector

Collection Processes: Private Sector

SELECTED SYSTEM

Transportation: Private Sector

Disposal Areas:

Processing Plants: N/A

Incineration: N/A

Transfer Stations: Private Sector, local governments

Sanitary Landfills: N/A

Ultimate Disposal Area Uses: N/A

Local Responsibility for Plan Update Monitoring & Enforcement: DPA and solid waste management planning committee

Educational and Informational Programs: DPA

LOCAL ORDINANCES AND REGULATIONS AFFECTING SOLID WASTE DISPOSAL

This Plan update's relationship to local ordinances and regulations within the County is described in the option(s) marked below:

_____ 1. Section 11538.(8) and rule 710 (3) of Part 115 prohibits enforcement of all County and local ordinances and regulations pertaining to solid waste disposal areas unless explicitly included in an approved Solid Waste Management Plan. Local regulations and ordinances intended to be part of this Plan must be specified below and the manner in which they will be applied described.

_____

_____

_____

_____

_____ 2. This Plan recognizes and incorporates as enforceable the following specific provisions based on existing zoning ordinances:

A. Geographic area/Unit of government: _____

Type of disposal area affected: _____

Ordinance or other legal basis: _____

Requirement/restriction: _____

_____

B. Geographic area/Unit of government: _____

Type of disposal area affected: _____

Ordinance or other legal basis: _____

Requirement/restriction: _____

_____

C. Geographic area/Unit of government: _____

Type of disposal area affected: _____

Ordinance or other legal basis: _____

Requirement/restriction: _____

_____

_____

_____

D. Geographic area/Unit of government: _____

Type of disposal area affected: _____

Ordinance or other legal basis: _____

Requirement/restriction: _____

_____

_____

_____

E. Geographic area/Unit of government: _____

Type of disposal area affected: _____

Ordinance or other legal basis: _____

Requirement/restriction: _____

_____

_____

SELECTED SYSTEM

_X_ 3. This Plan authorizes adoption and implementation of local regulations governing the following subjects by the indicated units of government without further authorization from or amendment to the Plan:

A host township, village or city may adopt ordinances associated with disposal areas which address the operational issues listed below:

1. Certain ancillary construction details, such as landscaping and screening
2. Hours of operation
3. Noise, litter, odor and dust control
4. Operating records and reports
5. Facility security
6. Monitoring of wastes accepted and prohibited
7. Composting and recycling

Since Part 115 of Act 451, 1994 only limits enforcement of local ordinances pertaining to disposal areas, local governments are free to enact regulations relating to a variety of other waste management issues, such as backyard burning, junk cars, blight and litter control, illegal dumping and volume related charging for refuse collection.

APPENDICES

ADDITIONAL INFORMATION REGARDING THE SELECTED SYSTEM

The following provides additional information regarding implementation and evaluation of various components of the Selected System:

EVALUATION OF RECYCLING

Several factors relating to recycling, including potential impediments, funding, market conditions and institutional arrangements are addressed in section III of this plan.

Household hazardous waste recycling and composting programs are economically feasible and produce long term environmental benefits.

APPENDIX

DETAILED FEATURES OF RECYCLING AND COMPOSTING PROGRAMS

List below the types and volumes of material available for recycling or composting:

Estimated tons per year are for the year 2000, and include both residential and commercial sources.

Material	TPY
Newsprint	5,334
White Office Paper	1,020
Mixed Office Paper	5,122
Cardboard	13,258
Magazines	2,542
Box board	3,734
Clear Glass	2,669
Green Glass	860
Amber Glass	830
Steel Cans	3,351
Aluminum	739
Other Metal	855
Clear HDPE	364
Colored HDPE	314
PET	415
Plastic Film	2,098
PS Foam	557
Other Plastic	3,411
Textiles	2,926
Food Waste	8,052
Yard Waste	12,880
Wood Waste	3,778
Tires	874
Other Organics	3,461
Other Inorganics	1,819
TOTAL	**131,669**

APPENDIX

DETAILED FEATURES OF RECYCLING AND COMPOSTING PROGRAMS

The following briefly describes the processes used to select the equipment and locations of the recycling and composting programs included in the Selected System. Difficulties encountered during past selection processes are summarized along with how those problems were addressed:

Equipment Selection

The private sector is responsible for equipment selection. Since recycling services are obtained through a competitive bid process, the county and/or local unit may base its selection of proposals on the type of equipment specified. There have been no problems with this approach.

Site Availability & Selection

In accordance with the interlocal agreements between the county and participating municipalities local units may select the location for recycling drop-off or composting sites. There have been no problems with this approach.

Composting Operating Parameters: NA

The following identifies some of the operating parameters which are to be used or are planned to be used to monitor the composting programs.

Existing Programs:

Program Name:	pH Range	Heat Range	Other Parameter	Measurement Unit

Proposed Programs:

Program Name	pH Range	Heat Range	Other Parameter	Measurement Unit

APPENDIX

COORDINATION EFFORTS

Solid Waste Management Plans must be developed and implemented with due regard for both local conditions and the state and federal regulatory framework for protecting public health and the quality of the air, water and land. The following states the ways in which coordination will be achieved to minimize potential conflicts with other programs and, if possible, to enhance those programs.

It may be necessary to enter into various types of agreements between public and private sectors to be able to implement the various components of this solid waste management system. The known existing arrangements which are considered necessary to successfully implement this system within the county are described below. In addition, proposed arrangements are recommended to address any discrepancies that the existing arrangements may have created or overlooked. Since arrangements may exist between two or more private parties that are not public knowledge, this section may not be comprehensive of all the arrangements within the county. Also, it may be necessary to cancel or enter into new or revised arrangements as conditions change during the planning period. The entities responsible for developing, approving, and enforcing these arrangements are also noted.

Ultimate responsibility for implementing the Solid Waste Management Plan rests with the County Board of Commissioners as part of its duties of general governance. The Board has appointed a planning commission to monitor ordinances, land use and well head protection plans within the county. The commission is also cognizant of any restrictions or commitments contained in plans for air and water quality or waste management which may be required to meet state or federal standards. County level decisions in any of these areas are made after consultation with the planning commission.

A number of existing arrangements are essential to implementation of the selected system, particularly the resource conservation and recycling components:

- The county's waste reduction policy, officially approved by the Board, institutionalizes office paper recycling, conservative use of paper and packaging, and recycled content purchasing.
- Interlocal agreements (under the Urban Cooperation Act) between the county and local governments provide the funding and coordination mechanism for resource recovery efforts.
- An interlocal agreement (under the Urban Cooperation Act) among seven counties is the foundation for the Southwest Michigan Solid Waste Consortium, which exists to promote cooperative planning and programming on waste management issues.
- Service contracts between private sector providers and the county (or local governments) define the quantity, quality and duration of recycling programs.

COORDINATION EFFORTS CONTINUED

The designated planning agency (Resource Recovery) is the entity responsible for developing, approving, renewing and enforcing the agreements described above (except in those municipalities which manage their own programs). All contracts negotiated on behalf of the county are signed by the Board of Commissioners Chairperson.

APPENDIX

COSTS & FUNDING

The following estimates the necessary management, capital, operational and maintenance requirements for each applicable component of the solid waste management system. In addition, potential funding sources have been identified to support those components.

System Component	Estimated Costs *	Potential Funding Sources
Resource Conservation Efforts	N/A	Private Sector
Resource Recovery Programs	350,000	Recycling Surcharge
Volume Reduction Techniques	N/A	Private Sector
Collection Processes	N/A	Private Sector
Transportation	N/A	Private Sector
Disposal Areas	N/A	Public and Private Sector
Future Disposal Area Uses	N/A	Public and Private Sector
Management Arrangements	62,000 (Includes staff)	Recycling Surcharge, County Appropriation
Educational & Informational Programs	18,000 (Includes staff)	Recycling Surcharge

* All cost figures are for county managed programs only, 1999 projections.

APPENDIX

EVALUATION SUMMARY OF THE SELECTED SYSTEM

The solid waste management system has been evaluated for anticipated positive and negative impacts on the public health, economics, environmental conditions, siting considerations, existing disposal areas, and energy consumption and production. In addition, the Selected System was evaluated to determine if it would be technically and economically feasible, whether the public would accept this Selected System, and the effectiveness of the educational and informational programs. The county considered potential impacts to resource recovery programs created by the solid waste collection system, institutional arrangements, population, market availability for collected materials and the transportation network. Impediments to implementing the solid waste management system were identified and proposed activities which would help overcome those problems were addressed. The Selected System was also evaluated in relationship to the Michigan Solid Waste Policy's goals. The following summarizes the findings of this evaluation and the basis for selecting this system:

The county evaluated alternative solid waste management systems against the statutorily defined criteria described on page II-12 of this plan. Of the three alternatives considered, the Selected System provides the greatest potential environmental benefit. The proposed increase in recycling will help conserve natural resources and reduce energy consumption. Disposal space at out-of-county facilities is secure for the ten-year planning period, and designation of an in-county site for potential expansion of the South Kent Landfill provides long term capacity assurance.

The Selected System requires no new technologies or economic subsidies for effective implementation. By building on the current system, which has successfully sustained both popular and financial support, this approach should prove quite acceptable to the general public.

The current residential solid waste collection system, which is based on low, flat rate fees for subscription service, does not create much incentive for people to recycle. The county hopes to address that concern by promoting volume related charges for disposal.

Interlocal agreements negotiated under the Urban Cooperation Act have dramatically increased the level of funding for waste diversion programs and are expected to do so in the future. Because the recycling surcharge is assessed on a per household basis, increases in population will be accompanied by a corresponding growth in revenue, ensuring long term financial stability.

Resource Recovery's collaborative efforts with other counties and agencies will help stretch the somewhat limited resources available for educational programs.

The Southwest Michigan Market Development Strategy, completed by Resource Recycling Systems Inc. and Public Policy Associates, indicated strong local and regional markets for material collected by area recycling programs. That, combined with a reasonably well developed highway system, should ensure that more recoverable items move out of the waste stream and into manufacturing processes.

APPENDIX

EVALUATION SUMMARY CONTINUED

Wherever possible, Allegan County intends to work toward the diversion goals set forth in the State Solid Waste Policy:

Reduction	8-12%
Reuse	4-6%
Composting	8-12%
Recycling	20-30%
Waste to Energy	35-45%
Landfill	10-20%

In as much as Allegan County does not plan on utilizing a waste-to-energy facility, the amount of landfilled waste will likely remain somewhat higher than specified in the State policy. However, the county plans to target larger volumes for recycling, composting, reuse and waste reduction to help compensate for the absence of waste-to-energy:

	5 years	10 years
Reduction	10%	14%
Reuse	5%	7%
Composting	15%	19%
Recycling	25%	35%
Waste-to-Energy	0%	0%
Landfill	45%	25%

APPENDIX

ADVANTAGES AND DISADVANTAGES OF THE SELECTED SYSTEM

Each solid waste management system has pros and cons relating to its implementation within the county. Following is an outline of the major advantages and disadvantages for this Selected System.

ADVANTAGES:

1. All residents have access to refuse collection so human health is protected.

2. Disposal capacity beyond ten or fifteen years is assured.

3. Increased recycling will conserve resources and reduce energy consumption.

4. The system is technically and economically feasible.

5. The funding mechanism for recycling is acceptable to the public.

6. Institutional arrangements creating public and private sector partnerships are acceptable to the public.

7. Educational efforts are expanded.

8. Promotion of volume related disposal fees enhances diversion.

DISADVANTAGES:

1. Resources for educational programming are limited.

2. Low costs and flat rate disposal fees diminish the motivation to recycle.

NON-SELECTED

SYSTEMS

Before selecting the solid waste management system contained within this Plan update, the county developed and considered two other alternative systems. The following section provides a brief description of these non-selected systems and an explanation of why they were not selected.

APPENDIX

SYSTEM COMPONENTS

The following briefly describes the various components of the non-selected systems. Except for the component pertaining to disposal areas, both systems are the same so only one evaluation form was completed.

RESOURCE CONSERVATION EFFORTS:

- Continue implementation of county's waste reduction policy as a model for business, industry and city and township government.

- Maintain county's household hazardous waste collection program at three events per year at the Health Department.

VOLUME REDUCTION TECHNIQUES:

- Private sector operation precludes county role in management of this component.

RESOURCE RECOVERY PROGRAMS:

- Maintain current number of curbside and drop-off recycling programs throughout the county.

- Continue to encourage commercial and industrial source separation and recycling efforts.

- Continue local public and private yard waste collection and composting efforts.

COLLECTION PROCESSES:

- Private sector operation precludes county role in management of this component.

TRANSPORTATION:

- Private sector operation precludes county role in management of this component.

DISPOSAL AREAS:

- SYSTEM NO. 1
  Continue exporting Type II and Type III solid waste to existing sanitary landfills in nearby counties.

APPENDIX

- SYSTEM NO. 2
  Develop a new sanitary landfill facility, public or private, somewhere within Allegan County.

INSTITUTIONAL ARRANGEMENTS:

- Maintain existing interlocal agreements between the county and local units of government to provide funding and coordination for recycling services.

- Maintain practice of seeking competitive bids and providing contract management to create a cooperative public-private recycling system.

EDUCATIONAL AND INFORMATIONAL PROGRAMS:

- Maintain current public education/information program on waste reduction and resource Conservation via county's Recycling Coordinator.

- Organize annual Forest Clean-up to promote environmental stewardship.

CAPITAL, OPERATIONAL, AND MAINTENANCE COSTS:

- System No. 1
  Subsidized by private sector through fees for service.

- System No. 2
  Private landfill subsidized by private sector; public landfill subsidized by the county. Other costs subsidized by private sector through fees for service.

EVALUATION SUMMARY OF NON-SELECTED SYSTEMS

Each non-selected system was evaluated to determine its potential of impacting human health, economic, environmental, transportation, siting and energy resources of the county. In addition, it was reviewed for technical feasibility, and whether it would have public support. Following is a brief summary of that evaluation along with an explanation of why the systems were not chosen to be implemented.

Both systems secure sufficient solid waste disposal throughout the ten-year planning period, guaranteeing that public health is protected. While the new, in-county landfill specified in System No. 2 could assure capacity well into the future, the difficulties in siting such a facility negate this advantage. Designating a location is always controversial and, as the private sector is not presently interested in perusing landfill development in our area, the county would have to assume all financial and management responsibilities. This, absent a pressing need for landfill space, is not feasible. Also, it's possible that the presence of a new in-county disposal area would have a negative impact on waste diversion. If landfilling is inexpensive or creates a revenue source through surcharges on tipping fees, many people will question the need to fund or use recycling programs.

Each system maintains the current network of curbside and drop-off recycling opportunities, utilizing a workable funding mechanism. However, no expansion in recovery efforts is specified, and the County has established increased waste diversion as a primary goal. To maximize conservation of energy and natural resources, the county must work to extend the level of services in this area.

In its consideration of the three proposed management alternatives, the solid waste planning committee examined each option as a whole system and ranked it as such. The committee determined that System No. 1 was superior to System No. 2, but that both of these options were inferior to System No. 3 for all evaluation criteria.

APPENDIX

ADVANTAGES AND DISADVANTAGES OF THE NON-SELECTED SYSTEMS

Each solid waste management system has pros and cons relating to its implementation within the county. Following is a summary of the major advantages and disadvantages for non-selected systems.

ADVANTAGES: Unless otherwise noted, each statement refers to both systems.

1. Final disposal capacity is more than sufficient.

2. The specified method for funding and managing waste diversion efforts has been used successfully for several years.

3. The quantity and quality of existing recycling and composting programs can continue to reduce the waste stream.

4. All citizens have access to refuse collection, so human health is protected.

5. Existing road network is adequate to satisfy system needs.

6. System No. 1 is technically and economically feasible.

7. System No. 1 would be acceptable to the public because it maintains the current (familiar) system and does not call for siting a new landfill in the county.

8. Education efforts are maintained.

9. For System No. 2, disposal capacity beyond ten or fifteen years is assured.

DISADVANTAGES: Unless otherwise noted, each statement refers to both systems.

1. For System No. 1, disposal capacity beyond ten or fifteen years is uncertain.

2. Existing level of recycling probably won't be enough for the county to achieve it's recycling goals.

3. Residents of some communities lack convenient access to recycling, and can recycle only a few materials.

4. System No. 2 is not technically or economically feasible because of landfill design and construction demands.

5. System No. 2 is not publicly acceptable because of landfill siting and operation concerns.

APPENDIX

PUBLIC PARTICIPATION AND APPROVAL

The following summarizes the processes which were used in the development and local approval of the Plan, including a summary of public participation in those processes, documentation of each of the required approval steps, a description of the appointment of the solid waste management planning committee and a member list for that committee.

PLAN DEVELOPMENT AND PUBLIC INVOLVEMENT:

Allegan County's solid waste planning committee is retained on active status to oversee management of the Resource Recovery Program. The coordinator for Resource Recovery, the designated planning agency, prepares agendas and attends all meetings. An annual schedule of monthly meeting dates is posted in county buildings and sent to local government offices. The public is always welcome to attend meetings, but when issues arise concerning a particular community, local officials from that area are contacted directly and encouraged to provide input. Minutes of meetings are sent to members, county commissioners and anyone else who wishes to receive them.

The routine procedure described above was the foundation for plan preparation and approval in Allegan County. Basic policies and plan components, such as goals and objectives and the selected waste management system, were discussed and decided upon early in the process. The planning agency then developed the document around principles endorsed by the committee. After the plan's public release, Resource Recovery set a public hearing date and published four notices on the availability of the plan for review and the time and location for a public hearing. Copies of the plan and a brief plan summary were sent to county and local officials, along with an offer for Resource Recovery to give a presentation on the document. Copies of meeting dates, time lines for approval, public notices and documentation of approval by the solid waste planning committee, county board of commissioners and municipalities are attached at the end of Appendix C.

PLANNING COMMITTEE APPOINTMENT PROCEDURE:

Anyone may apply for a position on the solid waste planning committee. Opportunities for appointment to all county committees are advertised by the county administrator's office once a year. Additionally, county commissioners and current solid waste committee members seek candidates with the skills and qualifications needed for a particular vacancy. Applications received by the administrator's office are sent to the committee for review and recommendation. The Board of Commissioners Chairman considers, but is not obligated to follow, the committee's recommendation. Members are appointed for two year terms and may be reappointed if continued service is desired.

APPENDIX

PLANNING COMMITTEE

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

Four representatives of the solid waste management industry:
1. Bill Dryfhout, Lakeshore Disposal, Inc.
2. Frank Schuller, Sunset Waste Services
3. Henry Valkema, Tri-City Recycling & Disposal
4. Wayne DeYoung, DeYoung Industrial Disposal Service

One representative from an industrial waste-generator:
1. Danielle Sieh, Perrigo Company

Two representatives from environmental interest groups from organizations that are active within the County:
1. William Hinz, Michigan Environmental Health Association
2. Inge Mesik, Chula Vista Garden Club, Kalamazoo Garden Council, Federated Garden Clubs of Michigan, National Council of State Garden Clubs.

One representative from County government: (All government representatives shall be elected officials or a designee of an elected official)
1. George Wesbey, County Commissioner

One representative from township government:
1. Robert Jones, Salem Township Supervisor

One representative from city government:
1. Lisa Sutterfield, Allegan Assistant City Manager

One representative from the regional solid waste planning agency:
1. William Sikkel, West Michigan Regional Planning Commission

Three representatives from the general public who reside in the County:
1. Eleanor Nielsen
2. Virginia Guilfoil
3. Mary Reno

ALLEGAN COUNTY HEALTH DEPARTMENT
2233 - 33rd St., Allegan, MI. 49010

Office Administration
(616) 673-5411
Personal Health Services
673-5413

David C. Tattan, D.O.
Medical Director

Resource Recovery
673-5411
Environmental Health
673-5415

Karl Zimmerman
Administrative Health Officer

ALLEGAN COUNTY SOLID WASTE PLANNING COMMITTEE
1998 MEETING DATES

In accordance with the Open Meetings Act, NOTICE IS HEREBY GIVEN that the following is a list of meeting dates for the ALLEGAN COUNTY SOLID WASTE PLANNING COMMITTEE, County of Allegan, Michigan. Meetings are scheduled on the 4th Tuesday of each month unless otherwise noted.

Place of meeting is in the conference room at the Allegan County Health Department, 2233 33rd St., Allegan, Michigan. The meeting time is 6:30 P.M. Members of the Public wishing to attend a meeting are advised to confirm the meeting's status by calling Resource Recovery, at 673-5415, during regular business hours. Meeting may be canceled for lack of business or inclement weather.

January 27
February 24
March 24
April 28
May 26
June 23
July 21 (third Tuesday)
August 25
September 22
October 27
November 17 (3rd Tuesday)
December 8(2nd Tuesday)

Signed: Billie Wilson
Billie Wilson
Solid Waste/Recycling Secretary
January 5, 1998
Revised March 30, 1998

ALLEGAN COUNTY HEALTH DEPARTMENT
2233 - 33rd St., Allegan, MI. 49010

Office Administration
(616) 673-5411
Personal Health Services
673-5413

[redacted]
Medical Director

Resource Recovery
673-5411
Environmental Health
673-5415

Karl Zimmerman
Administrative Health Officer

ALLEGAN COUNTY SOLID WASTE PLANNING COMMITTEE
1998 MEETING DATES

In accordance with the Open Meeting Act, NOTICE IS HEREBY GIVEN that the August 25, 1998 meeting date for the ALLEGAN COUNTY SOLID WASTE PLANNING COMMITTEE, County of Allegan, Michigan, has been changed to August 18, 1998.

Place of meeting is in the conference room at the Allegan County Health Department, 2233 33rd St., Allegan, Michigan. The meeting time is 6:30 p.m.

Signed: Billie Wilson
Billie Wilson
Solid Waste/Recycling Secretary

Recycled Paper

REVISED SCHEDULE FOR SOLID WASTE PLAN

REVIEW AND APPROVAL

This time line assumes there are no major objections or revisions. Should the plan be rejected at one or more of the approval steps, the process will be extended.

August 18, 1998 -	Solid Waste Planning Committee approves public release of completed plan draft. Copies are sent to the Board of Commissioners and all 34 municipalities in Allegan County.
August 19, 1998 -	Ninety day public comment period begins.
August 24, 1998 (WPI), August 27, 1998 (Kaechele) -	Publish first notices on availability of plan for review and date of public hearing.
October 5 and 8, 1998 -	Second notices published.
October 27, 1998 -	Public hearing held. Comments considered in developing possible revisions.
November 17, 1998 -	Solid Waste Planning Committee approves plan and recommends formal action by Board of Commissioners. A summary of comments received on the plan, along with any revisions, is sent to the Board.
November 25, 1998 or December 10, 1998 -	Board of Commissioners takes formal action. If it approves plan, copies of the final document, along with resolutions for local approval, are sent to all municipalities for formal action.
February or March 1999 -	Once 67% of the County's municipalities have passed and returned resolutions, the locally approved plan is sent to MDEQ for final approval.

Allegan County Solid Waste Committee
October 27, 1998, 6:30 p.m.
Allegan County Health Department

MINUTES

Members Present: Bill Sikkel, George Wesbey, Bunny Guilfoil, Lisa Sutterfield, Mary Reno, Eleanor Nielsen, Wayne DeYoung, Bill Dryfhout and Inge Mesik.

Members Absent: Bob Jones, Bill Hinz and Danielle Sieh.

Others Present: Mary Jones and Billie Wilson.

Call To Order
-The meeting was called to order at 6:40 p.m.

August 18, 1998 Minutes
-The minutes of August 18, 1998 were approved.

Eco Expo 1999 Budget
-Mary Jones told the committee that last year, one thousand dollars was authorized for the Eco Expo budget, and she would like to raise that amount to two thousand for this year. Mary Reno made a motion to raise the budget for 1999 to two thousand dollars. George Wesbey seconded the motion. Motion was approved.

Committee Vacancy
-Mary Jones announced to the committee that there is a committee vacancy open for the Solid Waste Industry title. The committee discussed who might be a good candidate for this vacancy. Bill Dryfhout thought of a few people and will get back to Mary in the very near future.

"Pay as you throw" Survey
-Mary Jones put together a survey to send to all the haulers in the County to find out what kind of program they have for volume based rates to their customers. The committee discussed the survey and decided that it needs a few changes. Eleanor made a motion to approve that the survey, with changes, be sent out to all haulers in the County. Bunny supported the motion. Motion was approved.

Public Hearing 7:00 p.m.

-The meeting recessed for a public hearing on the Solid Waste Plan, and no one from the public attended the meeting for questions. Lisa moved to adjourn the public hearing. Public hearing was adjourned.

Round Table

-Bill Sikkel wondered if there were any places in Allegan County that residents can take their leaves to be composted. Bill Dryfhout said that Heath Township has a "fall season" drop-off site for people to bring their leaves and his company picks up the leaves and brings them to I.B. Compost in Ottawa County.

-Lisa Sutterfield encouraged everyone to vote and to support Proposal C.

-Mary Jones shared a recycling directory that Keith Kling sent her from where he is now living in Minnesota.
Mary also said that she has heard no comment from DEQ yet on the Solid Waste Plan. She has received a letter from a citizen supporting the expansion of recycling programs.

-Bill Dryfhout brought a cassette tape that he purchased, called the Green Revolution, it's a kids' tape that's all about recycling. He gave it to Eleanor to use in her elementary school classroom. Bill also informed everyone on the Asian crisis effecting recycling efforts; Waste Management is discontinuing curbside recycling in many rural communities, including the suburban Lansing area.

-Meeting adjourned at 7:40 p.m.

Allegan County Solid Waste Planning Committee Meeting
at the Allegan County Health Department
November 17, 1998, 6:30 p.m.

MINUTES

MEMBERS PRESENT: Lisa Sutterfield, Bill Sikkel, Eleanor Nielsen, Bill Dryfhout, Bill Hinz, George Wesbey, Mary Reno, and Wayne DeYoung
MEMBERS ABSENT: Danielle Sieh, Bob Jones, Frank Schuller, Bunny Guilfoil and Inge Mesik
OTHERS PRESENT: Mary Jones and Billie Wilson

Call To Order
-Meeting was called to order at 6:30 p.m.

Approval of October 27, 1998 minutes
-The minutes were approved.

Coordinator's Report
-Mary didn't have anything new to report at this time.

Discussion and Formal Action on Solid Waste Plan
-Mary received a letter of comment from MDEQ on the Solid Waste Plan and read it to the committee. Although we need to make a few changes in the plan, the letter stated that we did a great job of using the format supplied by MDEQ and addressing the issues (letter attached). The committee discussed the changes that Mary proposed. George made a motion to approve the Plan, with the changes, and send it to the Allegan County Board of Commissioners for final approval. Mary Reno supported the motion. Motion approved.

Round Table
-George Wesbey made a general statement that people need to get more enthusiastic about recycling. The committee discussed different ways of advertising.

Adjourn
-Meeting adjourned at 7:15 p.m.

Surcharge Sub-Committee

The Surcharge Sub-Committee met before the regular meeting to accept bids for Wayland City Curbside. The only company to bid was Lakeshore Disposal, which bid $1.50 per unit (per month) for 1999, $1.55 per unit for year 2000, and $1.60 per unit for year 2001. Bill Hinz made a motion to recommend to Wayland City that they accept Lakeshore Disposal's bid. Eleanor supported the motion. Motion was approved.

Bard Bloom, O.D. Scott Bloom, O.D.

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— NOTICE —

Copies of the draft Allegan County Solid Waste Management Plan update are now available for review and may be obtained at the Health Department, 2233 - 33rd St., Allegan, MI 49010.

A hearing to accept public opinion on this draft is scheduled for October 27, 1998, 7:00 p.m., at the Health Department.

Written comments may be sent to Resource Recovery, Allegan County Health Department, at the above address.

The public comment period closes Novem 16, 1998.

AD-LINE *Classifieds*

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You can easily reach current customers and reach out for new customers - electronically! A Web page can be your electronic showroom, highlighting new products, customer service and so much more. You don't even need a computer to get in on the action.

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Design turn-around is fast! Your Web Page will be up and running in one week. If you choose to periodically add product or service updates - they will be on-line in 5 working days.

For more information call 729-22.

C-9

More Public Notices on Page 18

NOTICE

Copies of the draft Allegan County Solid Waste Management Plan update are now available for review and may be obtained at the Health Department, 2233 33rd St., Allegan, MI 49010.

A hearing to accept public opinion on this draft is scheduled for October 27, 1998, 7 p.m., at the Health Department.

Written comments may be sent to Resource Recovery, Allegan County Health Department, at the above address.

The public comment period closes November 16, 1998.

TOWNSHIP OF ALLEGAN
ALLEGAN COUNTY, MICHIGAN
NOTICE OF PUBLIC HEARING

TO: THE RESIDENTS AND PROPERTY OWNERS OF THE TOWNSHIP OF ALLEGAN, ALLEGAN COUNTY, MICHIGAN. THE OWNERS OF LAND WITHIN THE SPECIAL ASSESSMENT DISTRICT NOS. 98-1 AND ANY OTHER INTERESTED PERSONS.

PLEASE TAKE NOTICE that the Supervisor of the township has reported to the Township Board, and filed in the office of the Township Clerk for public examination a special assessment roll prepared by him covering all properties within The of said hearing and may further be examined at said hearing. Appearance and protest at this hearing is required in order to appeal the amount of the special assessment to the State Tax Tribunal.

PLEASE TAKE FURTHER NOTICE that an owner, or party in interest, or his or her agent may appear in person at the hearing to protest the Special Assessment, or may file his or her appearance or protest by letter at or before the hearing, and in that event, personal appearance shall not be required. The owner or any person having an

Public Notices

PUBLICATION OF NOTICE OF HEARING
FILE NO. 98-23393-NC
STATE OF MICHIGAN
CIRCUIT COURT
FAMILY DIVISION
COUNTY OF ALLEGAN

In the Matter of the change of name of Jeremiah Porro

NOTICE: A hearing will be held on Wednesday, October 21, 1998 at 11:30 a.m., in the probate courtroom, City of Allegan, Michigan, before Judge Hon. GEORGE A. GREIG, Judge of Family Division, a hearing will be held on the Petition of Dortha Jean and Jeremiah Johnson Sr. requesting said Court to change the legal name of Jeremiah Porro to Jeremiah Johnson III. Any person who has good cause to object to said name change should appear at the above time and place.

September 29, 1998
Dortha Jean and Jeremiah Johnson Sr.
490 Sherman Street
P.O. Box 165
Allegan, MI 49010
616-673-3007
10/8/1

MORTGAGE FORECLOSURE SALE

MORTGAGE SALE—Default has been made in the conditions of a mortgage made by RICHARD OLDS and PAMELA S. OLDS, his wife to STERLING SAVINGS BANK Mortgagee, dated June 29, 1992, and recorded on July 10, 1992, in Liber 1352, on page 688, Allegan County Records, Michigan on which mortgage there is claimed to be due at the date hereof the sum of THIRTY ONE THOUSAND EIGHT HUNDRED THIRTY AND 58/100 Dollars ($31,830.58), including interest at 8.250% per annum.

Under the power of sale contained in said mortgage and the statute in such case made and provided, notice is hereby given that said mortgage will be foreclosed by a sale of the mortgaged premises, or some part of them, at public vendue, at the east front entrance to the Allegan County Building in Allegan, Michigan, at 9:00 o'clock a.m., on NOVEMBER 19, 1998.

Said premises are situated in the Township of Dorr, Allegan County, Michigan and are described as:

Lot 63, Ranchero Estates Number 3, a

NOTICE OF ADMINISTRAT
Independent Probate
FILE NO. 98-50736-IE
STATE OF MICHIGAN, PRO
COURT, COUNTY OF ALLE

Estate of JAMES ORVILLE BEC
CEASED, SS # 374-52-0002

TO ALL INTERESTED PERSONS
Your interest in the estate m
barred or affected by the following:

The decedent, whose last knov
dress was 226 Cherry Street, Hopk
49328, died August 10, 1998.

Creditors of the deceased are
that all claims against the estate
forever barred unless presented to
dependent personal represen
Joseph B. Beck, c/o ORTON, TO
HALE, McKOWN & KIEL, P.C
Trowbridge Street, P.O. Box 239,
MI 49010-0239 or to both the indep
personal representative and the
County Probate Court, 2243 33rd
Allegan, Michigan 49010, within 4
of the date of publication of this
Notice is further given that the est
be thereafter assigned and distrib
the persons entitled to it.

ORTON, TOOMAN, HALE,
McKOWN & KIEL, P.C.
By: David F. Kiel P43048
314 Trowbridge Street, P.O. Box
Allegan, MI 49010-0239
(616) 673-2136

ORDER OF PUBLICATIO
THE CHANCERY COURT
HAWKINS COUNTY, TENNE

ANDREA D. BARTON and hus
TERRY W. BARTON,
AND
MELISSA D. SCOGGINS and m
JOAN S. CROWE
Petitioners,
vs No.
CARLOS MARTINEZ
Respondent,
TO: CARLOS MARTINEZ

In this cause, it appearing from t
tition, which is sworn to, that you
non-resident of the state or tha
whereabouts are unknown to the
tioners so that ordinary process
cannot be served, you are hereby
that you are required to file wi
Chancery Court at Rogersville,
nessee, within thirty (30) days fro

S T A T E O F M I C H I G A N

THE HONORABLE BOARD OF COMMISSIONERS

ALLEGAN COUNTY SOLID WASTE MANAGEMENT--FIVE YEAR PLAN

Your Committee of the Whole recommends adopting the following Resolution:

RESOLUTION

ALLEGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, on August 28th, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and

management system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Moved by Commissioner Wesbey, seconded by Commissioner McElwee that the report of the Committee of the Whole be adopted as read. Motion carried by roll call vote: Yeas - 9 votes. Nays - 0 votes. Absent - 0 votes.

ATTEST, A TRUE COPY

Joyce A. Vedrich, Clerk-Register

APPROVED: December 10, 1998

cc: Admin. - Finance Director - Resource Recovery (Mary Jones)

CITY OF OTSEGO

117 East Orleans Street, Otsego, Michigan 49078-1199
Phone: (616) 692-3391
FAX: (616) 692-2643

Commissioner Breedveld offered the following resolution and moved for its adoption, seconded by Commissioner Zantjer

CITY OF OTSEGO
MICHIGAN

RESOLUTION NO. 98-21
ALLEGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, on August 28, 1997, the Allegan County board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and management system methods throughout Allegan County for the ten year planning period

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

AYES: Commissioners: Joel M. Thompson, Kathleen Strong, Bruce Zantjer, W. Samuel Simpson, Nick Breedveld

NAYS: Commissioners: None

ABSTAIN: Commissioners: None

ABSENT: Commissioners: None

RESOLUTION DECLARED ADOPTED.

Dated: December 21, 1998

Paula A. Baker, City Clerk

Come to work, come to play, come to stay!

CERTIFICATE

DEC 3 3 1998

I hereby certify that I am the duly appointed and qualified City Clerk of City of Otsego, State of Michigan, and the keeper of the records of the City; that the foregoing is a true and correct copy of a Resolution duly adopted by the City Commission for the City of Otsego in accordance with all applicable laws and City Commission rules on December 21, 1998; and that the foregoing Resolution is in full force and effect as of the date of this certificate.

Dated: December 21, 1998

Paula A. Baker, City Clerk

CITY OF WAYLAND
RESOLUTION
99-10

A RESOLUTION TO ADOPT THE ALLEGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and management system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Ayes: Miller, Golm, Modreske, Sexton, Strong, Stahl and Hall.
Nays: None.

This resolution declared adopted.

Cheri M. Lutz

Cheri M. Lutz, City Clerk

This resolution declared adopted.

Cheri M. Lutz, City Clerk

CERTIFICATE

I hereby certify that the foregoing is a true and complete copy of a resolution adopted by the City Council of the City of Wayland, at a regular meeting held on April 5, 1999, and that said meting was conducted and public notice of said meeting was given to and in full compliance with the Open Meetings Act, being Act 267 Public Acts of Michigan, 1976 as amended, and that minutes of said meeting were kept or will be or have been made available as required by law.

Cheri M. Lutz, City Clerk

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: APRIL 15, 1999

Ayes: 5

Nays: 0

Absent: 0

The resolution was declared: PASSED

I do hereby certify that the above is a true and correct copy of a

resolution adopted by DORR TOWNSHIP at its regular meeting.

Signed: Richard E. Dutkiewicz

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: 03/09/1999

Ayes: 7

Nays: 0

Absent: 0

The resolution was declared: excepted

I do hereby certify that the above is a true and correct copy of a

resolution adopted by Village of Hopkins at its regular meeting.

Signed: Mary Kuber Pres.

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: 4-1-99

Ayes: 5

Nays: 0

Absent: 2

The resolution was declared: approved

I do hereby certify that the above is a true and correct copy of a resolution adopted by Gun Plain Twp at its regular meeting.

Signed: Marty Fleet

G1

RESOLUTION 98.35

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: December 28, 1998

Ayes: 7

Nays: 0

Absent: 0

The resolution was declared: ADOPTED

I do hereby certify that the above is a true and correct copy of a

resolution adopted by Allegan City Council at its regular meeting.

Signed: [illegible]

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: MARCH 10, 1999

Ayes: 4

Nays: 0

Absent: 1

The resolution was declared: ADOPTED

I do hereby certify that the above is a true and correct copy of a

resolution adopted by LAKETOWN TOWNSHIP at its regular meeting.

Signed: Robert Jostenell

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: March 9, 1999

Ayes: 5

Nays: 0

Absent: none

The resolution was declared: adopted

I do hereby certify that the above is a true and correct copy of a resolution adopted by Salem Township at its regular meeting.

Signed: Betty Brewer, Clerk

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: March 9, 1999

Ayes: Brower, Folkert, Reushel, Tipping, VanDam

Nays: 0

Absent: 0

The resolution was declared: adopted

I do hereby certify that the above is a true and correct copy of a resolution adopted by Overisel Township at its regular meeting.

Signed: Curtis Folkert, Clerk

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

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WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: Feb 1, 1999

Ayes: 5

Nays: 0

Absent: 0

The resolution was declared: passed

I do hereby certify that the above is a true and correct copy of a resolution adopted by Cheshire Township at its regular meeting.

Signed: Peter J. Helge Clerk

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: March 1, 1999

Ayes: Five

Nays: None

Absent: One

The resolution was declared: Adopted

I do hereby certify that the above is a true and correct copy of a resolution adopted by Fennville City Commission at its regular meeting.

Signed: Dorothy Ridgway

Dorothy Ridgway, City Clerk

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

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WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: Feb 1, 1999

Ayes: 5

Nays: —

Absent: —

The resolution was declared: Approved.

I do hereby certify that the above is a true and correct copy of a

resolution adopted by Monterey Twp at its regular meeting.

Signed: Lucille Coon, Twp Clerk

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

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WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: JANUARY 13, 1999

Ayes: 5

Nays: 0

Absent: 0

The resolution was declared: MOTION CARRIED.

I do hereby certify that the above is a true and correct copy of a

resolution adopted by CLYDE TOWNSHIP at its regular meeting.

Signed: Janis [illegible]

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: 2-8-99

Ayes: 5

Nays: 0

Absent: 0

The resolution was declared: Approved

I do hereby certify that the above is a true and correct copy of a resolution adopted by Hopkins Township at its regular meeting.

Signed: [illegible], Clerk

WATSON TOWNSHIP
1895 118th Ave.
Allegan, MI 49010

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: 1-7-99

Ayes: 5

Nays: 0

Absent: 0

The resolution was declared: approved

I do hereby certify that the above is a true and correct copy of a resolution adopted by Watson Township at its regular meeting.

Signed: Catherine Pardee, clerk

WATSON TOWNSHIP
1895 118th Ave.
Allegan, MI 49010

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: 1-14-99

Ayes: 5

Nays: 0

Absent: 0

The resolution was declared: adopted

I do hereby certify that the above is a true and correct copy of a

resolution adopted by Leighton Twp. at its regular meeting on 1/14/99.

Signed: Mary Lou Nieuwenhuis

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: 1/21/99

Ayes: 4

Nays: 0

Absent: 1

The resolution was declared: Jos. W. Horkin
Township Supervisor
@ Regular Board Meeting, Approved Un

I do hereby certify that the above is a true and correct copy of a

resolution adopted by Saugatuck Township at its regular meeting.

Signed: [illegible] 1/21/99
Twp. Clerk

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: January 11, 1999

Ayes: Van Meter, Urquhart, Phillippe, Naughtin, Frederick, Aalderink, Baker.

Nays: None

Absent: None

The resolution was declared: Adopted.

I do hereby certify that the above is a true and correct copy of a

resolution adopted by Douglas Village Council at its regular meeting.

Signed: Barbara McGee

Clerk/Treasurer
Village of Douglas

C - 32

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: Jan 12, 1999

Ayes: 5

Nays: 0

Absent: 0

The resolution was declared: PASSED

I do hereby certify that the above is a true and correct copy of a resolution adopted by Fillmore Twp at its regular meeting.

Signed: [illegible] clerk

R-02-1999

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: January 11, 1999

Ayes: 5

Nays: Ø

Absent: Ø

The resolution was declared: approved

I do hereby certify that the above is a true and correct copy of a resolution adopted by Wayland Twp at its regular meeting.

Signed: Beverly Taylor, Clerk
Wayland Township

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: January 6, 1999

Ayes: 9

Nays: 0

Absent: 0

The resolution was declared: January 6, 1999

I do hereby certify that the above is a true and correct copy of a

resolution adopted by Holland City Council at its regular meeting.

Signed: Jodi Sy

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: December 14, 1998

Ayes: 5

Nays: 0

Absent: 0

The resolution was declared: passed

RECEIVED
JAN 5 1999
ALLEGAN COUNTY FIA

I do hereby certify that the above is a true and correct copy of a resolution adopted by Heath Township at its regular meeting.

Signed: [illegible], Clerk

RESOLUTION

Allegan County Solid Waste Management Plan

WHEREAS, on August 28, 1997, the Allegan County Board of Commissioners adopted a Notice of Intent declaring its commitment to complete a Solid Waste Management Plan five-year update as required by Act 451 of 1994, Part 115, as amended, and its Administrative Rules; and

WHEREAS, Allegan County Resource Recovery was designated as the agency responsible for preparation of the County Solid Waste Plan; and

WHEREAS, the Board appointed a Solid Waste Management Planning Committee in accordance with the above Act and Rules to draft and approve policies for the Plan update; and

WHEREAS, a Solid Waste Management Plan update has been prepared for Allegan County, distributed to all local units of government for review, subjected to a ninety day public comment period and approved by the Solid Waste Management Planning Committee; and

WHEREAS, the Plan update provides a guideline for solid waste reduction, collection, recycling, disposal and mangement system methods throughout Allegan County for the ten year planning period;

NOW, THEREFORE, BE IT RESOLVED that this governmental body approves the 1997 Solid Waste Management Plan for Allegan County, Michigan, for the purpose of meeting the objectives of Act 451 of 1994, Part 115, as amended, and its Administrative Rules.

Dated: December 14, 1998

Ayes: 5

Nays: 0

Absent: 0

The resolution was declared: adopted

I do hereby certify that the above is a true and correct copy of a

resolution adopted by Otsego Township at its regular meeting.

Signed: Cynthia Schwartz

ATTACHMENTS

This section includes copies of the County Board Resolution and interlocal agreement defining responsibilities within the recycling surcharge program, as well as documentation from disposal facilities regarding capacity for Allegan County Waste.

S T A T E O F M I C H I G A N

BOARD OF COMMISSIONERS FOR THE COUNTY OF ALLEGAN

SOLID WASTE PLANNING COMMITTEE--WASTE REDUCTION RESOLUTION AMENDMENT

Your Committee on County Services, to whom was referred the request of the Solid Waste Planning Committee for amendment to the County's Waste Reduction Resolution of May 8, 1990, recommends that the following be authorized, effective immediately:

1) Delete the requirement for the minimum participation of four (4) cities and ten (10) townships.
2) Delete the five (5) year limitation on imposition of the surcharge fee.
3) Add a provision requiring renewal or renegotiation of all interlocal agreements in 1995 and at five (5) year intervals thereafter.

Thereafter, the Amended Waste Reduction Resolution would read as follows:

> Your Committee on Services recommends approval of a Waste Reduction Resolution which imposes a surcharge on households of up to $25.00 per year, per family unit, for the purpose of waste reduction in Allegan County.
>
> Collection of the surcharge is deferred until interlocal agreements are made with each local unit of government relative to the collection and use of the surcharge within each local unit. All existing

interlocal agreements shall be renewed or renegotiated in 1995, and at five (5) year intervals thereafter. New governmental units joining the program after 1995 shall follow the same program renewal and renegotiation timetable so that all interlocal agreements expire in the same calendar year.

COMMITTEE ON COUNTY SERVICES.

Moved by Commissioner Fein, seconded by Commissioner Thierwechter, that the report of the County Services Committee be adopted as read. Motion carried.

ATTEST, A TRUE COPY:

Joyce R. Watts, Clerk-Register

APPROVED: October 27, 1994

cc: Admin. - Solid Waste Planning Committee/Resource Recovery

1995 SURCHARGE CONTRACT

This Agreement is made on _____between

_____,
first party, and the County of Allegan, Allegan County Building, 113 Chestnut Street, Allegan, Michigan, 49010, second party.

WHEREAS, Allegan County encourages local units of government to collect a surcharge of up to $25.00 per household unit, per year, as provided under Act 138 of the Public Acts of 1989, for recycling and waste reduction programs, and

WHEREAS, _____ has agreed to do so, and

WHEREAS, the parties desire to reduce their agreement to writing,

NOW, THEREFORE, it is agreed as follows:

1. Regarding collection and deposit of funds:

   A. The participating governmental unit (PGU) named above agrees to place a surcharge of up to $25.00 per household, per year, on all property and deposit collected monies with the Allegan County Treasurer on a schedule acceptable to both parties. Delinquent surcharge collection will not be the responsibility of the PGU.

   B. All surcharge funds deposited with the county will be placed in a separate account. Maximum available funds will be invested for interest and all interest earned will remain with the principal, for application to surcharge funded programs. The Health Department will maintain individual surcharge accounting for each PGU reflecting all recycling revenues, expenses and interest. Any PGU funds not spent within a calendar year will be carried over to that PGU's account for the following year. Funds remaining in the PGU's account after the end of the contract period will be expended on those programs in place prior to the contract's termination.

   C. In any given year, the PGU may elect to eliminate or reduce the surcharge to be collected on its property tax bills. The exercise of this option shall not relieve the PGU of its obligation to fund, at an amount equivalent to a maximum of $25 per household, per year, all recycling services selected by the PGU or the planning and education costs referred to in section 1D herein. If funds in the PGU's surcharge account are insufficient to cover these costs, Resource Recovery will bill the PGU for expenses. The PGU must notify Resource Recovery of any intent to change the amount of its surcharge three months prior to the date the surcharge is to be billed. Any restoration of a reduced surcharge back to the contractual maximum of $25 per household shall not constitute an increase in the surcharge, as referenced in section 8a(2) of Act 138, P.A. 1989.

D. Each year the county will deduct a maximum of $3.75 per paid household from the PGU's recycling account for the costs of recycling education and planning. Any PGU not collecting the surcharge will be assessed $3.75 for each household listed on its established surcharge roll. These funds will be placed in a special account for recycling planning and education. Funds not spent within a given calendar year will be carried over to the following year and applied to continued costs for planning and education.

2. Regarding the expenditure of funds:

A. Allegan County, represented by its Solid Waste Planning Committee, agrees to provide to the PGU the following services: A recycling drop-off site within the unit's boundaries or curbside collection of recyclables, according to the funding capabilities and wishes of said unit, and recycling education.

B. Once the minimum commitments in Section 2A are met, the remaining revenues may be used to provide the following services as requested by the PGU: composting, tire, motor oil, household hazardous waste, appliance, household battery collection, or other services as allowed under Act 138, P.A. 1989.

C. Allegan County will allow the PGU to receive reimbursement of its surcharge collections, not to exceed 85% annually, for a locally contracted and operated recycling or waste reduction program if it meets Public Act 138 guidelines. This determination of consistency will be made by the Allegan County Solid Waste Planning Committee.

D. Allegan County will reimburse the PGU $1.00 per parcel, excluding industrial, in its first year of participation in the program, due to extra work involved in setting up the collection roll. This payment will be made within six months of the first billing, and is a one time reimbursement.

3. This agreement shall remain in effect through December 31, 2000, and shall be binding upon the sucessors or assigns of both parties, unless terminated as provided under Act 138, P.A. 1989. The final billing under this agreement will appear on the December 1999 tax bills (or June 2000 tax bills for PGU's using the summer collection schedule).

4. On at least an annual basis, Allegan County will provide an accounting of all revenues and expenditures for each PGU, as well as a report on the volumes of materials diverted from the waste stream.

IN WITNESS WHEREOF, this contract is signed by and on behalf of the parties:

Date:_____ _____
(City or Township)

Date:_____ _____
Karl Zimmerman, Administrator
Allegan County Health Department

Date:_____ _____
Jon Campbell, Chairman
Allegan County Board of Commissioners

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

WATER AND SEWER DIVISION
Financing
Construction
Operation

Board of Public Works

JERRY O. KOOIMAN
Chairman
ROGER G. LANINGA
Vice Chairman
BEVERLY R. REKEN
Secretary
CHERRY H. JACOBUS
KATHERINE KUHN
PAUL McGUIRE
DAVID H. MORREN
CURT A. KEMPPAINEN
Director

April 9, 1998

Ms. Mary Jones
Solid Waste/Recycling Coordinator
Allegan County Health Department
2233 33rd Street
Allegan, MI 49010

Re: Solid Waste Management Plan Coordination

Dear Ms. Jones:

As you are aware, we are continuing the process of updating the Solid Waste Management Plan for Kent County. I wrote you a letter on January 5, 1998 stating that our landfill records indicated that Kent County is receiving approximately 31 tons/day of solid waste from Allegan County. After further investigation of our plan, I suggest that both plans include 100 tons per day in the new plan instead of the 50 tons per day I stated in my previous letter. On Tables 1-A or 2-A of the *Plan Format*, we would record 100 tons per day "Primary Disposal" in our plans. We can discuss this idea further as our plans continue to develop.

If you have any questions regarding this item or other items relating to the planning process feel free to call.

Best regards,

KENT COUNTY DEPARTMENT OF PUBLIC WORKS

Douglas G. Wood
Deputy Director

c: Dennis Kmiecik
Richard Butler, VRSH

S:\SWO\SWMA\PLANS\ALLEGAN2.WPD

Earl G. Woodworth Building • 1500 Scribner Avenue, N.W. • Grand Rapids, Michigan 49504-3299
Telephone: (616) 336-3694 Facsimile: (616) 336-3338 E-Mail address: kcdpw@dpw.co.kent.mi.us

printed on recycled paper

Southeast Berrien County Landfill Authority

3200 Chamberlain Road, Buchanan, MI 49107 • (616) 695-2500 • Fax (616) 695-4230

July 2, 1998

Ms. Mary H. Jones
Allegan County
2233-33rd Street
Allegan, Michigan 49010

Re: County Solid Waste Plan - Update

Dear Ms. Jones:

The Southeast Berrien County Landfill, to the best of our knowledge, is willing and able to accept waste from Allegan County as set forth on the enclosed form you provided. Our anticipated life expectancy, including an expansion that will be permitted within 60 days, is 13 to 15 years.

A facility description is included for your use. If you need any additional information please contact me at 616/695-2500.

Sincerely,

Bruce M. Knapp, P.E.
General Manager

Waste Management℠

Westside Recycling and Disposal Facility
P.O. Box 392
14094 M-60 West
Three Rivers, MI 49093

Phone 616 279.5444
Fax 616 273.1662

June 30, 1998

Mary H. Jones
Solid Waste Coordinator
Allegan County Health Dept.
2233 - 33rd St.
Allegan, MI 49010

Dear Ms. Jones:

Westside RDF has accepted waste from Allegan County for a number of years. The volume we have accepted is included in the total annual volume as specified in our fact sheet.

In 1995 the St. Joseph County Plan was amended to allow our landfill to accept up to a combined total of 1,500,000 cubic yards of waste from any authorized counties in our plan. The only restriction that we have is that we will give first priority to St Joseph County solid waste should we reach the annual volume limit. I want to assure you that we are currently a long way from having to make that decision.

We can accept waste, without limit, from authorized counties, up to 1,500,000 cubic yards per year. We are, therefore, requesting authorization to accept up to 100% of the waste generated in Allegan County, subject to the annual volume cap authorized in the St. Joseph County Solid Waste Plan.

St. Joseph County has also started the Solid Waste Management Plan update process and it is my belief that the current philosophy regarding waste acceptance will continue to be a part of the updated plan. We have also recently signed an ammended Host Community Agreement with St. Joseph County that will allow us to increase our annual volume cap from 1,500,000 cubic yards to 1,750,000 cubic yards. This provision will also be included as part of the plan update.

If you have any questions, please give me a call.

Yours Truly,

Tom Wilson
Site Manager

Waste Management of Michigan, Inc.

Printed on recycled paper

SAUK TRAIL HILLS DEVELOPMENT, INC.

5011 S. Lilley Road
Canton, MI 48188
Phone: (313) 397-2790 Fax: (313) 397-2694

November 10, 1997

Allegan County Board of Commissioners
113 Chestnut Street
County Building
Allegan, MI 49010

Re: Allegan County Solid Waste Management Plan Update
Explicitly Authorized Solid Waste Exports

Dear Commissioners:

I understand that Allegan County has indicated to the Michigan Department of Environmental Quality ("MDEQ") that the County intends to prepare an update to its solid waste management plan (the "Plan Update") as required by Part 115 of the Natural Resources and Environmental Protection Act, and that you are the contact persons for the Plan Update. As you may know, in order for a landfill located in one county to serve the disposal needs of another county, Part 115 requires that the solid waste management plans for both counties explicitly authorize such service. Further, although not expressly required under Part 115, MDEQ's "Guide to Preparing the Solid Waste Management Plan Update Format" recommends that a Plan Update explicitly identify the quantity of waste which may be exported to another county for disposal. The relevant pages of this MDEQ guidance document are enclosed. This letter formally requests that the Allegan County Plan Update explicitly authorize each of the following landfills owned and operated by Allied Waste Industries, Inc. ("Allied") to serve up to 100 percent of the daily and annual disposal needs of Allegan County:

Allied Landfill	Host County
Auburn Hills (Auburn Hills, MI)	Oakland
Ottawa Farms (Coopersville, MI)	Ottawa
Sauk Trail Hills (Canton, MI)	Wayne

I also understand that the existing MDEQ-approved solid waste management plan for Allegan County already explicitly authorizes Allied's landfill located in Ottawa County to serve at least some of

D-9

the disposal needs of Allegan County With respect to that landfill, Allied would like to continue providing Allegan County residents competitively priced, environmentally sound solid waste disposal services. With respect to Allied's Oakland County and Wayne County landfills, Allied requests that these landfills be explicitly authorized in the Plan Update as well, in order to better serve Allegan County.

Allied would be happy to provide the you with any information Allegan County might require with respect to this request. Thank you for your attention to this matter and I look forward to hearing from you soon.

Very truly yours,

Laurie Kendall

Laurie Kendall
District Landfill General Manager
ALLIED WASTE INDUSTRIES, INC

Enclosure

cc Ms. Mary Jones, Solid Waste Recycling Coordinator
Allegan County Health Department
2233 - 33rd Street
Allegan, MI 49010

May 22, 1998

Ms Mary Jones
Allegan County Resource Recovery
Health Department
2233 33rd Street
Allegan, MI 49010

RE: Allegan County Solid Waste Management Plan Update
Explicitly Authorized Solid Waste Exports

Dear Ms. Jones:

BFI Waste Systems of North America, Inc. is a waste disposal company operating three Type II Sanitary Landfills in Michigan. These disposal facilities are authorized to accept municipal refuse, non-hazardous industrial waste and non-hazardous contaminated soils. These facilities are C&C Landfill in Calhoun County (south central Michigan), Arbor Hills Landfill in Washtenaw County (southeast Michigan) and Vienna Junction Landfill in Monroe County (also southeast Michigan). Included with this letter are the facility descriptions for each of the three BFI sites. You will be required by the MDEQ to provide this information in your planning process

BFI understands that your county has indicated to the Michigan Department of Environmental Quality (MDEQ) its intention to update your solid waste management plan as required by Part 115 of the Natural Resources and Environmental Protection Act. In order for a landfill located in one county to serve the disposal needs of another county, Part 115 requires that the solid waste management plans of both counties explicitly authorize such services. The MDEQ also recommends, as part of your solid waste management plan update, that the updated plan explicitly identify the quantity of waste which may be exported to another county for disposal. Current export/import authorizations for your county are listed in the MDEQ "Export/Import Authorizations in County Solid Waste Management Plan Updates - January 1996". A copy of this report can be obtained from the MDEQ.

BFI's intent in sending this letter is to ask that your Solid Waste Planning Committee review its current export authorizations. We would then ask that your committee consider providing for export authorization to the three counties identified above (Calhoun, Washtenaw and Monroe) in the event that your county should ever be in need of one of

Arbor Hills Landfill · 10690 W. Six Mile Rd. · Northville, Michigan 48167
Phone 248-349-7230 · Fax 248-349-7572
www.bfi.com

D - 11

30% Post-Consumer

Recycled paper

these disposal facilities in the next five to ten years (as required by the solid waste planning process). BFI would also ask your committee to consider authorizing each of these three landfills to serve up to 100 percent of the daily and annual disposal needs of your county, again, in the event that this should ever be necessary.

BFI would be pleased to help your county to provide for its long term disposal needs. We looks to provide any assistance we may offer to you as you move through this solid waste planning update process. We would also be happy to attend any scheduled meetings at which you might request BFI to be present in order to discuss this request in more detail. I thank you for your attention to this request.

Sincerely,

Kathleen A. Klein
BFI Public Sector Representative

Encl.

Waste Management℠

Grand Rapids Customer Service Center
1668 Porter Street, S.W.
Grand Rapids, Michigan 49509-1796

Phone 616 538 3750

May 1, 1998

Ms. Mary H. Jones
Allegan County Resource Recovery
Health Department
2233 33rd Street
Allegan, MI 49010

Re: Waste Management Landfills in Michigan

Dear Solid Waste Planning Committee Members:

Waste Management of Michigan, Inc. owns and operates eight (8) licensed solid waste landfills located throughout the lower peninsula of Michigan. All of these landfills are allowed to receive waste from many counties and a few from all counties in the lower peninsula. Attached please find the following information:

1. MDEQ standard format information sheets for each of our landfills.
2. A map showing the location of our landfills
3. A listing for each landfill showing which counties may import waste to the site.

The list of counties for each site is based upon existing county plans or our existing host agreements with counties which provide for the county to add these counties during the current plan updates. In most cases there is no requirement to have signed inter-county agreements. However, for those counties that do require inter-county agreements, we have indicated that on the sheet. We are encouraging all counties to have their plans as open as possible with regards to inter-county transfers and to not require signed agreements between the counties. In some cases, we are requesting our host counties to add additional counties, during the update process, which are not covered under a host agreement. These are also indicated on the attached sheets.

As you update your plan, please add as many of our landfills, as you wish, to your plan and notify out host counties of your intentions and request that they also include you in their plans.

Printed on recycled paper

If you have any questions, need additional information, or wish to add your county as an exporting county to one of our landfills, please call me at (616) 538-1921 ext 151.

Sincerely,

WASTE MANAGEMENT OF MICHIGAN, INC.

Jeff Poole
Manager, Business Development

File: Allegan County, 616/673-5415

CITY ENVIRONMENTAL SERVICES - HASTINGS • P.O. BOX 336 • 1869 N. BROADWAY • HASTINGS, MI 49058
(616) 945-4493 • FAX (616) 945-4582

March 12, 1999

Mary Jones, Solid Waste Recycling Coordinator
Allegan County Health Department
2233 – 33rd St.
Allegan, Mi. 49010

Dear Ms. Jones,

City Environmental Services Landfill, Inc. of Hastings can provide primary disposal, for up to 100%, of Allegan Counties waste for the up and coming planning period. Our facility has just received a new construction permit this spring. Based on 1998 "flows" the Hastings site has 20+ years of capacity.

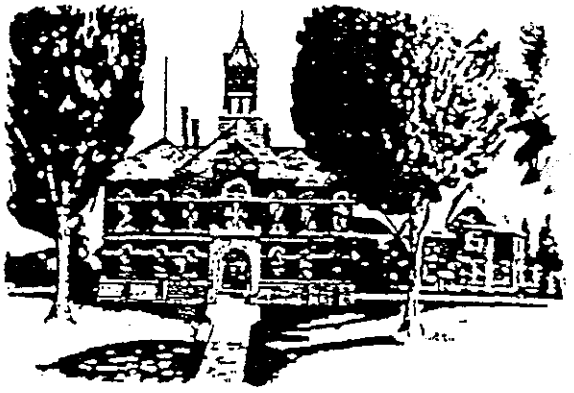
With this correspondence is Barry County's May 28, 1998 request for reciprocal agreements for our contiguous counties. Additionally, I have included a facility description and a site plan.

If you have questions regarding this letter, please feel free to call me at 616-945-2260.

Sincerely,

Steve Essling

BARRY
COUNTY
COURTHOUSE
220 W. STATE STREET
HASTINGS, MICHIGAN 49058



May 22,1998

Mr. Bill Dryfhout, Chairman
Allegan County Solid Waste Planning Committee
County Building
113 Chestnut St.
Allegan, Mi 49010

Dear Mr. Dryfhout,

Last year, the Department of Environmental Quality approved amendments to the Barry County Solid Waste Plan authorizing export of Solid waste from Barry County to all 82 counties in Michigan, and primary disposal at our landfill in Hastings from 19 Michigan counties - one of which is Allegan County.

We respectfully request you take whatever actions are necessary to provide explicit authority for the exportation of solid waste from Allegan County to Barry County. We realize you are commencing the process of updating your solid waste management plan and inclusion of our request in that update would be timely for our purposes.

If there is any further information you may need or if you would like to discuss this matter further, please do not hesitate to contact me at (616) 945-9516

Sincerely,

V. Harry Adrounie, Ph D
Chairman

cc: Mr. John Cambell
Ms. Mary Jones

RESOURCE RECOVERY PROJECT
OF IONIA COUNTY

March 13, 1998

TO: Designated Planning Agencies for Allegan, Barry, Clinton, Eaton, Gratiot, Ingham, Isabella, Kent, Lake, Mason, Montcalm, Muskegon, Newaygo, Oceana, and Ottawa Counties
FROM: Don Lehman, Ionia County Solid Waste Coordinator
RE: Solid Waste Management Plan Import/Export Arrangements

At Ionia County's Solid Waste Planning Committee meeting on March 5, your county was designated as a county from which general type II solid waste will be accepted at solid waste disposal facilities in Ionia County. Presently that consists of the Pitsch Landfill in northwest Ionia County General type II solid waste, as described in Ionia County's Solid Waste Management Plan, consists of residential, commercial, industrial, and special wastes.

As Ionia County updates its SWMP we will be listing your county as a potential exporter of solid waste to Ionia County. Ionia County's Solid Waste Planning Committee desires to make all import/export arrangements reciprocal. Consequently, Ionia County requests that your county designate your present disposal facilities as available for Ionia County waste. If you do not presently have an operating disposal facility we request that you designate any facilities constructed in the future as available for Ionia County waste.

Ionia County will most likely put an annual cap on the amount of waste permitted to be disposed of at the Pitsch Landfill in order to maintain sufficient capacity for Ionia County's future needs. This could put some restrictions on the use of Pitsch Landfill by your county, but under current conditions the need for restrictions seems to be very limited or even nonexistent

If you have any questions or comments about Ionia County's intent in proposing this import/export relationship, please contact me with your questions or concerns. It is to be hoped that this type of arrangement will help provide your county, and Ionia County, with both primary and contingency capacity over the next ten years and beyond.

Sincerely,

Don Lehman

Donald Lehman
Solid Waste Coordinator

100 Library Street, Ionia, MI 48846
Phone: (616)527-5357 Fax: (616)527-5312

- Demolition Engineers
- Asbestos Abatement
- Salvaged Building Materials
- Excavating and Underground Services
- Concrete Recycling

- Landfill Operation
- Dumpster Service
- Commercial & Residential Waste Services
- Land Developement

Pitsch Companies

SANITARY DIVISION

September 11, 1998

Allegan
Mary H. Jones
Allegan County Resource Recovery
Health Department, 2233 33rd Street
Allegan, MI. 49010

Dear Mary H. Jones:

Pitsch Sanitary Landfill would like to be named in your Solid Waste Management Plan as a receiving landfill. The following attachment is the facilty description for the Pitsch Sanitary Landfill located in Belding, Michigan, County of Ionia.

If you have any questions please call me at 616-794-3050 or fax me at 616-794-1769.

Sincerly;

Douglas A. Carson
Director of Communications

Enc. 5

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7905 Johnson Rd., Belding, Michigan 48809
Telephone: 1-800-748-2448 FAX: (616) 794-1769