JOHN ENGLER, Governor DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"
HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

INTERNET: www.deq.state mi.us RUSSELL J. HARDING, Director

October 17, 2001

Mr. James D. Young, Chairperson Sanilac County Board of Commissioners 60 West Sanilac Sandusky, Michigan 48471

Dear Mr. Young:

The Department of Environmental Quality (DEQ) received the locally approved update to the Sanilac County Solid Waste Management Plan (Plan) on August 13, 2001.

By this letter, this Plan is hereby approved. The DEQ would like to thank Sanilac County (County) for its efforts in addressing the County's solid waste management issues.

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, and the Part 115 administrative 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 that these enforceable mechanisms are properly implemented 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.

If you have any questions, please contact Ms. Rhonda Oyer Zimmerman, Chief, Solid Waste Management Unit, at 517-373-4750.

Sincerely,

Russell J. Harding

Director

517-373-7917

cc: Senator Dan L. DeGrow

Representative Stephen Ehardt

Mr. Arthur R. Nash Jr., Deputy Director, DEQ

Mr. William T. Burton, Jr., Acting Legislative Liaison, DEQ

Mr. Jim Sygo, DEQ

Ms. Joan Peck, DEQ

Mr. Edwin Haapala, DEQ – Saginaw Bay

Ms. Rhonda Oyer Zimmerman, DEQ

Ms. Lynn Dumroese, DEQ

Sanilac County File

Douglas A. Bell, AICP

Community Planning Consultant

214 East State Street Clare, Michigan 48617 Telephone & Fax: 517-386-6491 e-mail: dabell@voyager.net

August 9, 2001

Ms. Lynn Dumroese
Solid Waste Management Unit
Waste Management Division
Department of Environmental Quality
P.O. Box 30241
Lansing MI 48909

RE: Sanilac County Solid Waste Management Plan Update

Dear Lynn:

The locally approved Sanilac County Solid Waste Management Plan update is enclosed for DEQ review and approval.

The municipal resolutions include 31 approvals (out of 39 local units), one approval with conditions that cannot be met, and two disapprovals.

A copy of the plan on computer disk is also enclosed.

1 Bell

Thank you for your assistance and review. Please contact me if you have any questions.

Sincerely,

Douglas A/Bell, AICP

Project Consultant to Sanilac County

Enclosures

C.

Sue Fortune, ECMPDR

Sanilac County Solid Waste Management Plan Update

Revised Draft June 2000

Approved by the Sanilac County Board of Commissioners

Approved by the Sanilac County Solid Waste Management Planning Committee

Approved by at least 67% Sanilac County's Municipalities

Submitted to the Michigan Department of Environmental Quality for Final Approval

Prepared by the
Sanilac County Solid Waste Management Planning Committee

With the assistance of the
East Central Michigan Planning & Development Regional Commission
3144 Davenport Avenue, Suite 200
Saginaw MI 48602

Sanilac County Solid Waste Management Plan

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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. This document is that format. The Plan should be prepared using this format without alteration. Please refer to the document entitled "Guide to Preparing the Solid Waste Management Plan Update" for assistance in completing this Plan format.

DATE SUBMITTED TO THE DEQ

If this Plan includes	s more than a single County, list all counties p	articipating in this Plan.
accepted to be included in the	all the municipalities from outside the County uded in the Plan, or municipalities within the Plan of another County according to Section II involved County boards of commissioners	County that have been approved to 11536 of Part 115 of the NREPA.
Municipality	Original Planning County	New Planning County
	ANNING AGENCY PREPARING THIS PL	
CONTACT PERSO	ON: Sue Fortune, Executive Director	
ADDRESS:	3144 Davenport Avenue, Suite 200	
•	Saginaw MI 48602	
	Caro MI 48723	
PHONE.	517-797-0800	FAX: 517-386-0896
E-MAIL:		(If Applicable) (If Applicable)
	SITORY LOCATION(S): (1) ECMPDR, 353 Board of Commissioners Office, Sanilac Cour II 48471	

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 found on the following pages will take precedence over the executive summary.

OVERALL VIEW OF THE COUNTY (attach additional pages as necessary)

Township or	Population	% Lar	nd Use	% of E	conomic	Base*	
Municipality Name	- -	Rural	Urban	Ag For	Ind	Com	Other
Argyle Twp.	894	<u>99%</u>	1%	<u>75.0% 0</u>	< 0.1%	<u>6 1.9%</u>	23.0%
Austin Twp	697	99%	1%	<u>71.6% 0</u>	≤ 0.1%	<u>6 0.5%</u>	<u>27.9%</u>
Bridgehampton Twp	749	96%	4%	<u>66.0%</u> <u>0</u>	<u>0</u>	<u>6.7%</u>	<u>27.3%</u>
Buel Twp	921	98%	2%	<u>61.3%</u> <u>0</u>	<u>0</u>	<u>2.7%</u>	<u>36.0%</u>
Custer Twp	1,110	87%_	13%	<u>61.6%</u> <u>0</u>	0.9%	<u>4.5%</u>	<u>33.0%</u>
Delaware Twp.	881	92%	8%	<u>44.0%</u> <u>0</u>	<u>≤ 0.1%</u>	<u>6 0.6%</u>	<u>55,3%</u>
Elk Twp.	990	99%_	1%	<u>52.1%</u> <u>0</u>	0.1%	<u>2.5%</u>	<u>45.3%</u>
Elmer Twp.	844	99%	1%	<u>70.6%</u> 0	< 0.1%	<u>6</u> 2.1%	<u>27.3%</u>
Evergreen Twp.	990	99%_	1%	<u>68.0%</u> <u>0</u>	<u>0</u>	<u>0.3%</u>	31.7%
Flynn Twp.	986	99%	1%	<u>69.0%</u> <u>0</u>	0.5%	$\leq 0.1\%$	<u>30.5%</u>
Forester Twp.	1,003	90%	10%	<u>16.7%</u> <u>0</u>	0.1%	0.8%	<u>82.4%</u>
Fremont Twp.	858	98%	<u>2% </u>	<u>59.6%</u> <u>0</u>	0.3%	<u>0</u>	<u>40.1%</u>
Greenleaf Twp.	728	99%	1%	<u>57.2%</u> 0	0.9%	<u>7.5%</u>	34.4%
Lamotte Twp.	962	99%	1%	<u>63.0%</u> <u>1.4%</u>	<u>0</u>	<u>2.7%</u>	<u>32.9%</u>
Lexington Twp.	2,453	<u>40%</u>	60%	<u>13.3%</u> <u>0</u>	<u>1.6%</u>	8.9%	<u>76.2%</u>
Maple Valley Twp.	1,115	96%_	4%	<u>63.6%</u> <u>0</u>	0.8%	0.4%	<u>35.2%</u>
Marion Twp.	890	96%	<u>4% </u>	<u>40.6%</u> <u>0.1%</u>	<u>4.9%</u>	<u>15.5%</u>	<u>38.9%</u>
Marlette Twp.	1,943	93%_	<u>7% </u>	<u>54.9% 0</u>	1.8%	<u>4.6%</u>	<u>38.7%</u>
Minden Twp.	476	96%	4%	<u>58.6%</u> <u>1.6%</u>	1.4%	<u>3.2%</u>	<u>35.2%</u>
Moore Twp.	1,261	99%	1%	<u>55.0%</u> <u>0.8%</u>	2.4%	<u>3.0%</u>	<u>38.8%</u>
Sanilac Twp.	1,861	94%	<u>6%</u>	<u>17.5%</u> 0	0.4%	<u>4.6%</u>	<u>77.5%</u>
Speaker Twp.	1,116	99%	1%	<u>47.0%</u> <u>0</u>	<u>1.5%</u>	1.4%	<u>50.1%</u>

Township or Population % Land Use		nd Use	% of Economic Base*	
Municipality Name	_	Rural	Urban	Ag For Ind Com Other
Washington Twp.	912	96%	4%	<u>31.9% 0</u> <u>1.2% 3.9% 63.0%</u>
Watertown Twp.	1,242	90%_	10%	<u>38.7% 0</u> <u>0.2% 15.3% 45.8%</u>
Wheatland Twp.	560	99%	1%	<u>68.1% 1.1% 3.8% 0.2% 26.8%</u>
Worth Twp.	3,435	58%	42%	<u>13.0% 0</u> <u>0.9% 3.1% 83.0%</u>
Carsonville Village	618	4%	96%	Included with B'hampton & Wash Twps.
Brown City	1,306	2%	98%	<u>0.1%</u> <u>0</u>
Croswell City	2,240	2%	98%	<u>0</u> <u>0</u> <u>9.9%</u> <u>17.0%</u> <u>73.1%</u>
Forestville Village	161	4%	96%	Included with Delaware Twp.
Peck Village	590	4%	97%	Included with Elk Twp.
Lexington Village	896	2%	98%	Included with Lexington Twp.
Deckerville Village	1,072	4%	96%	Included with Marion Twp.
Marlette City	1,932	2%	98%	<u>0.4%</u> <u>0</u>
Minden City Village	241	4%	96%	Included with Minden Twp.
Sandusky City	2,355	<u>2%</u>	98%	<u>0</u> <u>0</u> <u>5.2%</u> <u>36.1%</u> <u>58.7%</u> (
Port Sanilac Village	686	4%	96%	Included with Sanilac Twp.
Melvin Village	153	4%	96%	Included with Speaker Twp.
Applegate Village	313	4%	96%	Included with Washington Twp.
SANILAC COUNTY	42,440	96%_	4%	<u>34.4%</u> <u>0.1%</u> <u>1.7%</u> <u>6.8%</u> <u>57.0%</u>
Total Population	42,440			

^{&#}x27;Ag = Agriculture; For = Forestry; Ind = Industry; Com = Commercial; Oth = All Other Economic Bases Additional listings, if necessary, are listed on an attached page.

EXECUTIVE SUMMARY

CONCLUSIONS

Sanilac County's current solid waste management system is functioning well, and it provides an effective means for managing the solid waste that is generated in the county. Solid waste collection and transportation services are mainly provided by the private sector and are available to all residents, businesses, and industries in the county. Solid waste that is generated in Sanilac County will be transported to licensed landfills in Sanilac, Huron, and Macomb Counties. These landfills have sufficient capacity to provide for Sanilac County's solid waste disposal needs for the next 10 years and beyond. No new disposal facilities are currently planned.

Sanilac County has a well-established Materials Recovery Facility and Recycling Program that provides recycling opportunities to all residents and diverts recyclable materials from landfills. The overall goal of this program is to reduce the county's solid waste stream by 25%.

Composting of yard wastes and other organic materials also takes place in the county, mainly through home composting efforts by residents, and some collection of yard waste by the private solid waste haulers and municipalities. Yard waste may also be dropped off for composting at the Tri-City RDF and at the Cove Landfill in Huron County.

SELECTED ALTERNATIVES

Sanilac County's selected alternative is to retain the current solid waste management system. An overview of the major components of this system follows.

- 1. Collection and Transportation of Solid Waste. The existing collection and transportation system will remain in place. Solid waste collection services will continue to be provided to all county residents, businesses, and industries. These services will continue to mainly be provided by private enterprise through a free market system that utilizes both municipal contracts and individual arrangements with solid waste haulers. However, it is not this plan's intent to preclude involvement by municipalities from providing solid waste collection services to citizens within their respective jurisdictions. The plan also encourages local units of government to consider the benefits of arranging for solid waste services through municipal contracts, although such arrangements are certainly not mandated.
- 2. Disposal of Solid Waste. Licensed Type II landfill's in Sanilac, Huron, Macomb, and Genesee Counties will meet Sanilac County's solid waste disposal needs for the planning period. Also, the Oakland County Plan Update authorizes the acceptance of solid waste from Sanilac County. Finally, landfills in St. Clair County will provide additional disposal capacity on a contingency basis, as defined elsewhere in this plan.
- 3. Recycling. Under the selected alternative, Sanilac County will continue to operate a Materials Recovery Facility for collection of recyclable materials. Curbside recycling service and recycling drop-off sites are established in several communities, which are described in the following pages. All local governments are encouraged to provide recycling opportunities for their residents, either through arrangements for drop-off

sites or the provision of curbside collection for recyclables. Recycling services are expected to continue to be mainly provided by the County MRF & recycling program, and through private enterprise. However, this does not preclude other entities -- such as environmental organizations, private non-profit groups, and others -- from becoming involved in recycling activities. The plan encourages the involvement of such groups in materials recovery efforts.

- 4. Composting Collection of yard wastes from residents for composting will be continued by the private sector. Currently, curbside collection of yard waste is limited to the Village of Carsonville. However, residents may drop of yard waste for composting at the Tri-City RDF and at the Cove Landfill in Hiron County "Backyard" composting by residents will also continue to be encouraged. Municipalities are encouraged to provide composting opportunities for their residents as needs dictate, either through curbside collection of yard wastes or through local drop-off sites. Again, it expected that composting services will continue to be furnished by the private sector. The plan, however, does not intend to limit the ability of any local government unit to establish a composting site and program.
- 5. Separation of Household Hazardous Wastes. There is presently collection of used motor oil and household batteries at the MRF. The County should work in partnership with the private solid waste industry to explore ways to provide expanded opportunities for separation and collection of potentially hazardous wastes from residents and from agriculture.
- 6. Resource Conservation and Waste Reduction. Resource conservation and waste reduction will be encouraged through the voluntary efforts of residents, businesses, and industries. The County should investigate ways to expand public information and education in this area.
- 7. Public Information and Education. Current educational efforts will be continued under the selected system, such as the programs that are conducted through MSU Extension. Current efforts are described in greater detail later in this section. The County should investigate ways to coordinate and enhance these efforts.

INTRODUCTION

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 the 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: Develop an efficient, environmentally sound, and cost-effective solid waste management system that is capable of meeting the County's diverse needs for the next 10 years.

Objective 1a: Encourage new and innovative materials and energy recovery technologies.

Objective 1b: Assign within the County the responsibilities for carrying out the various actions required for implementing the adopted Solid Waste Management Plan.

Goal 2: Encourage inter-county cooperation in the development of a solid waste management system.

INTRODUCTION

Objective 2a. Arrange for adequate landfill space to meet the County's solid waste disposal needs.

Goal 3: Ensure continued participation by the private solid waste industry in all solid waste management activities

Objective 3a: Arrange for adequate landfill space to meet the County's solid waste disposal needs.

Objective 3b. Encourage the expanded use of private/non-profit organizations for operating and coordinating formal efforts in recycling and resource recovery

Goal 4 Develop an integrated solid waste management system that includes waste reduction, source separation, recycling, composting, and landfilling as its major components.

Objective 4a: Develop and implement education programs for waste reduction, source separation, recycling, and integrated solid waste management for County residents.

Objective 4b: h. Encourage the expanded use of all feasible non-landfill alternatives for solid waste management.

Goal 5: Promote governmental, institutional, commercial, and industrial recycling capabilities.

Objective 5a: Review local government and public institution procurement policies and advise the appropriate entities as necessary to further encourage the use of recycled and recyclable materials.

Goal 6: Encourage the creation and expansion of markets for recycled materials, and the use of recyclable and recycled materials by government, business, industry, and the public

Objective 6a: Review local government and public institution procurement policies and advise the appropriate entities as necessary to further encourage the use of recycled and recyclable materials.

Objective 6b: Encourage appropriate local, state, and federal legislation to provide incentives for waste reduction, source separation, and recycling

Identification of sources of waste generation within the county, total quantity of solid waste generated to be disposed, and sources of the information. (Attach additional pages as necessary)

Solid waste generation estimates for Sanilac County were obtained from the most recent DEQ "Report of Solid Waste Landfilled in Michigan" for the period of October 1, 1996 through September 30, 1997. The report on volumes landfilled showed that approximately 130,000 cubic yards of solid waste generated in Sanilac County were disposed of at three different Type II landfills. No Type III solid waste disposal was reported. The facilities presently used for primary disposal are located in Sanilac, and Huron Counties. The Pioneer Rock Landfill in Lapeer County formerly accepted waste from Sanilac County. However, this facility was closed while this plan update was in preparation.

Data collected by the County Materials Recovery Facility (MRF) show that approximately 1,117 tons of material were collected and marketed during 1997. As a rough estimate, this quantity represents approximately 3,351 cubic yards of material that would have otherwise been placed in landfills.

The current solid waste collection and disposal system appears to be working well, and no major problems are anticipated. There are no special wastes generated in the county that create any unique problems for collection, transportation, or disposal. Landfill capacity in the region is adequate and provides Sanilac County with more than ten years of capacity. Participation in the County Recycling Program has grown substantially over the past few years, and participation is expected to continue to improve.

TOTAL QUANTITY OF SOLID WASTE GENERATED:

131,383 ☐ Tons or Cubic Yards in one year (identify unit of time)

TOTAL QUANTITY OF SOLID WASTE NEEDING DISPOSAL:

131.008 Tons or Cubic Yards in one year (identify unit of time)

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.

The following is a listing of the solid waste disposal areas that Sanilac County currently utilizes to meet its disposal needs. These facilities are located in Sanilac County and in surrounding counties. Detailed descriptions of these disposal areas are included on the following pages. It should be noted that the facility in Lapeer County (Pioneer Rock) was not accepting solid waste at the time this plan update was in preparation. However, this landfill has remaining capacity, and it may accept waste again in the future.

Type II Landfills (County Location):

Cove Landfill (Huron County)
Tri-City Recycling & Disposal Facility (Sanilac County)
Pioneer Rock Landfill (Lapeer County)

FACILITY DESCRIPTIONS		
Facility Type: Type II Landfill (Sheridan	Twp.)	
Facility Name: Cove Landfill of Bad Axe	Inc.	
County: <u>Huron</u> Location: Town: <u>15</u>	N Range: 12E Sec	ction(s): 22
Map identifying location included in Atta	achment Section:	Yes No
If facility is an Incinerator or a Transfer Station wastes:	Station, list the final	disposal site and location for Incinerator ash or Transfer
☐ Public ☐ Private Owner: Cove La	andfill of Bad Axe In	ic.
Operating Status (check) open closed licensed unlicensed construction permit open, but closure pending * Explanation of special wastes, including	resi	
Site Size: Total area of facility property: Total area sited for use: Total area permitted: Operating: Not excavated: Current capacity:	53.4 41.8 6.84 0	acres acres acres acres acres acres acres acres
Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume:	10 290 100,000	years days
(if applicable) Annual energy production Landfill gas recovery projects: Waste-to-energy incinerators	<u>N/A</u> <u>N/A</u>	megawatts megawatts

FACILITY DESCRIPTIONS

Facility Type: Municipal Solid Waste (Type II) La	ındfill	. •	
Facility Name: Tri-City Recycling and Disposal Fa	acility		
County: Sanilac Location: Town: 12N Rang	ge: <u>15E</u> Section	(s): <u>32</u>	
Map identifying location included in Attachment S	Section: X Ye	es 🗌 No	
If facility is an Incinerator or a Transfer Station, liststation wastes:	st the final disp	osal site and location for Incinerator ash or Transfer	
Public Private Owner: Waste Managemer	nt .		
Operating Status (check) Open Open Closed Closed Clicensed Cunlicensed Construction permit Open, but closure pending * Explanation of special wastes, including a specific Paper pulp, shredded foam, food product waste	resident commer industric construct contami special other:	rcial al al ation & demolition inated soils wastes *	
· · · · · · · · · · · · · · · · · · ·			
Site Size: Total area of facility property: Total area sited for use: Total area permitted: Operating: Not excavated:	195.4 195.4 125 31.6 93.4	acres acres acres acres acres acres	
Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume:	10.780.000 22 272 330.000	☐tons or ☑yds³ years days ☐tons or ☑yds³	
(if applicable) Annual energy production: Landfill gas recovery projects: Waste-to-energy incinerators:	<u>N/A</u> <u>N/A</u>	megawatts megawatts	

FACILITY DESCRIPTIONS Facility Type: Type II Landfill Facility Name: Pioneer Rock Landfill County:Lapeer Location: Town: 9 N Range: 12E 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: Public Private Owner USA Waste Operating Status (check) Waste Types Received (check all that apply) open residential closed commercial licensed industrial construction & demolition unlicensed construction permit contaminated soils special wastes * open, but closure other: pending * Explanation of special wastes, including a specific list and/or conditions: Site Size: Total area of facility property: <u>80</u> acres Total area sited for use: acres 61.8 Total area permitted: acres Operating: acres 20 Not excavated: acres

0

0

0

N/A

N/A

Current capacity:

(if applicable)

Estimated lifetime:

Estimated days open per year:

Annual energy production:

Landfill gas recovery projects:

Waste-to-energy incinerators:

Estimated yearly disposal volume:

 \square tons or \square yds³

 \boxtimes tons or \square yds³

megawatts

megawatts

years

days

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

The collection and transportation of solid waste that is generated at residences, businesses, and industries in Sanilac County is accomplished exclusively by the private solid waste industries. Private solid waste collection firms that operate in Sanilac County include Cove Sanitation, Waste Management, and Knox Disposal.

In the County's nine villages and four cities, residential solid waste collection services are mostly provided under municipal contracts with private haulers. Commercial collection services for businesses and industries are generally handled under individual arrangements.

In the rural townships, a "free market" system operates that requires homeowners to arrange for curbside service on an indivudual subscription basis.

Current information on solid waste collection services in Sanilac County is summarized in the following table. A key to the information in the table is also attached

Solid Waste Collection Services Information Sanilac County

Community	Service Provider		2 e Type	3 Payment Method	4 Additional Services	Tra	5 nsfer tion	6 Landfill
Townships		Curbside	Drop-off Site			Type A	Type B	
Argyle	WM Cove	Х		I				Tri-City Cove
Austin								Tri-City
Bridgehampton	WM Cove	X		I	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Tri-City Cove
Buel	WM Knox	X		I				Tri-City
Custer	WM, Cove Knox	X		Ι				Tri-City Cove
Delaware	WM Cove	X		I				Tri-City Cove
Elk	WM Knox	X		I				Tri-City
Elmer	WM ⁻ Knox	X		I				Tri-City
Evergreen	WM Cove	X		I				Tri-City Cove
	WM Knox	X		I				Tri-City
Flynn	WM	X		I				Tri-City
Forester	Cove WM	X		I				Tri-City
Fremont	Knox WM	X		I				Tri-City Cove
Greenleaf Lamotte	Cove WM	Х		I				Tri-City
Lexington	WMI Cove	X		I				Tri-City Cove
	WM, Cove Knox	Х		I				Tri-City Cove
Maple Valley	WM	X		I				Tri-City Cove
Marion	Cove WM	X		I				Tri-City Cove
Marlette	Cove WMI	X		I				Tri-City Cove
Minden	Cove					<u> </u>		Cove

Continued on next page

Solid Waste Collection Services Information Sanilac County, Continued

Community	1 Service Provider		2 e Type	3 Payment Method	4 Additional Services	Trai	5 osfer tion	6 Landfill
Townships		Curbside	Drop-off Site			Type A	Type B	
Moore	WM Cove	X		I				Tri-City Cove
Sanilac	WM Cove	X		I				Tri-City Cove
Speaker	WM Knox	X		I				Tri-City
Washington	WM Knox	X		I				Tri-City
Watertown	WM, Cove Knox	X		I				Tri-City Cove
Wheatland	WM Cove	X		I				Tri-City Cove
Worth	WM Cove	X		I				Tri-City Cove
Villages								
Carsonville	WM	X		S	RC, YW RD			Tri-City
Forestville	Cove	X		S				Cove
Peck	Knox	X		S	RD			Tri-City
Lexington	Cove	X		S				Cove
Deckerville	Cove	X		S	RC			Cove
Minden City	WM	X		S				Tri-City
Port Sanilac	Cove	X		S	RC			Cove
Melvin	Knox	X		S				Tri-City
Applegate	WM	X		S				Tri-City
Cities								
Brown City	Knox	X		S				Tri-City
Croswell	WM	X		S	RD			Tri-City
Marlette	Cove	X		S	RC RD			Cove
Sandusky	Cove	X		S	RC RD			Cove

Solid Waste Collection & Transportation Services Key to Information in the Table

The following numbers refer to the numbered blocks on the form:

1. Service Provider. This entry identifies the firms or other organizations that provide solid waste collection services in the community.

Cove

Cove Sanitation

WM

Waste Management

Knox

Knox Disposal

- 2. Service Type. These columns are marked to indicate whether solid waste is picked up from residences (curbside service) or must be transported to a drop-off site (transfer station or similar arrangement).
- 3. Payment Method. The following codes to indicate the method of payment for services:
 - I Individuals billed directly for service
 - G Services are paid for from the local government's General Fund
 - S A special fee is levied for trash collection, such as a special assessment
- 4. Additional Services. The following codes indicate any additional services that are available.
 - RC Curbside collection of separated recyclable materials from residences is provided
 - RB Collection of specified recyclable materials from businesses is provided.
 - RD Separated recyclable materials may be dropped off at a designated site in the community
 - YW Separate collection of yard waste is provided to residences.
 - CS A site where residents may drop off yard waste for composting is provided in the community.
- 5. Transfer Station. The columns are marked if a transfer station is located in the community.

Type A transfer stations are generally enclosed facilities where solid waste is mechanically unloaded from commercial collection vehicles. The waste is often compacted for transport to a landfill in large loads.

Type B transfer stations generally consist of roll-off units or "dumpster" containers where residents may directly deposit their garbage. The containers are picked up or emptied by collection vehicles for transport to a landfill.

6. Landfill. This entry Indicate the landfill where the solid waste generated in the community is taken for final disposal.

EVALUATION OF DEFICIENCIES AND PROBLEMS

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

As part of the plan update process, the Sanilac County Solid Waste Management Planning Committee (SWMPC) considered problems and deficiencies in the current solid waste system. The following is a compilation of the committee's responses on this topic:

- 1. In general, the current solid waste management system appears to be functioning well, without any major deficiencies.
- 2. There should be some type of program aimed at separation and collection of household hazardous wastes and agricultural chemicals.
- 3 Composting should be encouraged more as an option
- 4. The successful implementation and expansion of recycling will ultimately require economic incentives.

DEMOGRAPHICS

The following presents the current and projected population densities and centers for five and ten year periods, identification of current and projected centers of solid waste generation including industrial solid waste for five and ten year periods as related to the Selected Solid Waste Management System for the next five and ten year periods. Solid waste generation data is expressed in tons or cubic yards, and if it was extrapolated from yearly data, then it was calculated by using 365 days per year, or another number of days as indicated.

From 1990 to 1997, Sanilac County's population is estimated to have grown by 6.3%. This represents an annual growth rate of 1.1%. If this trend continues, the county population will reach 45,322 by 2003 and 47,589 by 2008.

Population estimates for the municipalities within the county are available through 1996. Population changes within the local government units during 1990 through 1996 ranged from a decline of 2% in the City of Sandusky to an increase of 15% in Lexington Township. Twenty out of thirty-nine municipalities in the county grew by 9% or more during this period.

Several of the largest communities in the county in terms of population include Worth Township, Sandusky, Lexington Village and Township, the City of Croswell, the Village of Carsonville and the adjacent townships of Bridgehampton and Washington, Marlette City and Township, and the Village of Port Sanilac and Sanilac Township. Together, these communities make up over 47% of the total county population. These areas also represent the centers for manufacturing, retail trade, and services within the county. Consequently, these communities are also the county's centers of solid waste generation. The three areas are expected to remain the centers of both population and solid waste generation for the five-year and ten-year planning periods.

Information on recent population trends in Sanilac County, and projections for both population growth and solid waste generation over the next 10 years are shown on the attached pages.

Sanilac County Current Annual Solid Waste Generation & Disposal

Disposal Facility	Type II Solid Waste	Type III Solid Waste
Tri-City RDF (Sanilac)	100,154 cubic yards	0
Cove Landfill (Huron)	24,150 cubic yards	0
Pioneer Rock LF (Lapeer)*	6,704 cubic yards	0
Total	131,008 cubic yards	0

Source: "Report of Solid Waste Landfilled in Michigan October 1, 1996 — September 30, 1997," Michigan Department of Environmental Quality, Waste Management Division, February 27, 1998.

* Pioneer Rock now closed; no longer accepting waste.

Sanilac County Population Trends

1990 Census	1996 Estimate	1997 Estimate	% Change 1990 – 1997	Average Change Per Year
39,928	42,431	42,736	7.0%	1.0%

Source: Bureau of the Census, U.S. Department of Commerce, Federal-State Cooperative Program for Population Estimates, Released on March 17, 1998.

Sanilac County Population and Solid Waste Generation Projections

	1998	2003	2008
County Population	43,163	45,322	47,589
Annual Solid		`	
Waste Generation	132,338 cubic yards	138,957 cubic yards	145,908 cubic yards

Population Trends, 1990 — 1996 Sanilac County & Municipalities

Community	1990 Census	1996 Estimate	% Change 1990—1996
Argyle Township	820	894	9.0%
Austin Township	639	697	9.1%
Bridgehampton Township	686	749	9.2%
Buel Township	844	921	9.1%
Custer Township	1,018	1,110	9.0%
Delaware Township	808	881	9.0%
Elk Township	907	990	9.2%
Elmer Township	774	844	9.0%
Evergreen Township	907	990	9.2%
Flynn Township	914	986	7.9%
Forester Township	919	1,003	9.1%
Fremont Township	787	858	9.0%
Greenleaf Township	667	728	9.1%
Lamotte Township	949	962	1.4%
Lexington Township	2,249	2,453	9.1%
Maple Valley Township	1,022	1,115	9.1%
Marion Township	816	890	9.1%
Marlette Township	1,910	1,943	1.7%
Minden Township	437	476	8.9%
Moore Township	1,238	1,261	1.9%
Sanilac Township	1,706	1,861	9.1%
Speaker Township	1,023	1,116	9.1%
Washington Township	836	912	9.1%
Watertown Township	1,235	1,242	0.6%
Wheatland Township	513	560	9.2%
Worth Township	3,146	3,435	9.2%
Carsonville Village	583	618	6.0%
Forestville Village	153	161	5.2%
Peck Village	558	590	5.7%
Lexington Village	779	896	15.0%
Deckerville Village	1,015	1,072	5.6%
Minden City Village	233	241	3.4%
Port Sanilac Village	656	686	4.6%
Melvin Village	148	153	3.4%
Applegate Village	297	313	5.4%
Brown City	1,235	1,306	5.7%
Croswell City	2,174	2,249	3.90%
Marlette City	1,924	1,932	0.4%
Sandusky City	2,403	2,355	- 2.0%
Sanilac County	39,928	42,440	6.3%%

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

General Land Cover

General land cover data for Sanilac County are shown below, as derived from the Michigan Resource Information System (MIRIS). Sanilac County is a rural and predominantly agricultural area. Agricultural and open land makes up about 83.7% of the county's land area. Most of the agricultural land base consists of cropland and occupies over 473,000 acres. Urban land uses, including residential, commercial, and industrial development, occupy about 3.5% of the county. Forested land covers about 8.5% of the county, consisting mainly of both upland and lowland hardwood species. Finally, open water (such as lakes and streams) and various types of wetlands cover slightly more than 4% of the county.

Development Patterns

Agricultural land uses are expected to dominate the character of Sanilac County for the forseeable future. There are no major urban centers in the county. Instead, development tends to be distributed in numerous small cities and villages.

As previously mentioned, several of the largest communities in the county in terms of population include Worth Township, Sandusky, Lexington Village and Township, the City of Croswell, the Village of Carsonville and the adjacent townships of Bridgehampton and Washington, Marlette City and Township, and the Village of Port Sanilac and Sanilac Township. Together, these communities make up over 47% of the total county population. These areas also represent the centers for manufacturing, retail trade, and services within the county. Consequently, these communities are also the county's centers of solid waste generation. These areas are expected to remain the centers of both population and solid waste generation for the five-year and ten-year planning periods.

SOLID WASTE MANAGEMENT ALTERNATIVES (attach additional pages as necessary)

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 Alternatives are located in the following section. Details regarding each non-selected alternative are located in Appendix B.

The following alternative systems were discussed and evaluated by the County Solid Waste Management Planning Committee (SWMPC)

Alternative A: Retain the Current Management System

This represents the "status quo" alternative and is always an option. This alternative assumes that the existing solid waste management system will remain in place without any drastic changes.

Solid waste generated in Sanilac County would continue to be disposed of at the Tri-City Landfill ans licensed landfills in surrounding counties. It is assumed that the existing landfills have adequate capacity for Sanilac County's disposal needs for the next 10 years. Landfilling would remain the primary means for solid waste disposal.

Under this alternative, the current free market system for solid waste collection and transportation would remain in effect

The current levels of materials recovery and recycling by the County's Materials Recovery Facility (MRF) would continue. However, this plan option does not call for any major expansion of the current level of recycling.

Composting would be encouraged by residents ("backyard composting") and by local governments that may wish to provide such services. The County would furnish educational support, but it would not engage in actual composting operations.

Alternative B: Enhanced Materials Recovery

This alternative also calls for continuation of the present system of exporting solid waste to landfills in adjacent counties.

However, a major focus of this alternative would be on expanded materials recovery efforts. Some	me
components of this focus might include:	
☐ Expanded curbside collection of recyclables in parts of the County	
☐ Collection of additional materials (beyond what is collected now).	
☐ Experimentation with economic incentives for recycling in target communities (such as "pay a	.S
you throw" or metered bag systems).	
☐ Model local government procurement policies to promote the purchase and use of recycled	
products	

The implementation of this alternative will require a greater role for the County's Recycling Program and Center. Specific recommendations for program enhancements would need to be developed.

Expanded composting efforts would also be a part of this plan option. This could occur through municipal composting operations, composting services furnished by the private sector, or some combination of approaches.

This plan would also provide for the continuation of the current collection and transportation arrangements. However, better county-level monitoring of local collection practices could also be implemented.

Alternative C: Regional Solid Waste Management System

This alternative calls for the creation of a regional solid waste management system in cooperation with surrounding counties. For initial discussion purposes, this is assumed to include Sanilac, Huron, Tuscola, and Lapeer Counties. From an institutional standpoint, this option calls for the creation of a formal solid waste management authority or similar entity.

Under this option, the use of the existing, privately-owned landfills within this group of counties would continue. Due to current disposal capacity, this alternative does not call for the development of a new regional landfill. However, this could remain an option should the need arise (much like in the current plan). Also, the creation of an authority would give the counties greater ability to control the solid waste stream and to direct it to certain facilities, if necessary

The regional management approach would also present certain other opportunities for improved solid waste management:

☐ Regional collection of recyclable materials
☐ Regional marketing of recyclable materials
☐ Regional purchasing of recycled products
Potential regional processing facilities for mixed waste and composting
☐ Regional franchises for solid waste collection and other services.

Evaluation of Alternative Solid Waste Management Plans
The alternatives were evaluated according to the following factors, as specified in Act 451:

Technical feasibility. Can the alternative be implemented using available technology, or will the needed technology become available in the near future?

Economic feasibility. How much will it cost to implement the alternative? Is the cost greater than the financial capabilities of public and private entities? How will facility development, operation, and maintenance costs be provided?

Access to Land and Transportation Routes. Does the alternative require the acquisition of land? Would facilities be efficiently located? Will the existing transportation system be adequate, or will road improvements be required?

Energy Consumption/Production Is the alternative energy-efficient for transportation and operation requirements? Would energy be produced in conjunction with any processing or disposal operations? Would any revenue be generated by energy production?

Environmental Impacts. What environmental impacts would result from implementation of the alternative? Would implementation create long-term impacts associated with operation and maintenance of solid waste facilities?

Public Health Effects. Would the alternative create, continue, or mitigate public health hazards associated with improper handling or disposal of solid waste?

Public Acceptability. Is the alternative likely to be accepted by county residents? Will it be politically acceptable to local governments? Will the alternative comply with all applicable laws, especially Act 451?

Evaluation Method

The three alternatives were evaluated through the use of a numerical ranking system. For each of the evaluation factors described above, a numerical score was assigned to each alternative using the following scoring system:

- 3 High positive impact, superior benefits
- 2 Moderate positive impact
- 1 Slight positive impact
- 0 Very little or no impact
- -1 Slight negative impact
- -2 Moderate negative impact
- -3 Major negative impact

Once a score was assigned for each factor, the results were added to obtain a total score for each alternative. The alternative with the highest total score should be the the committee's preferred option

Separate plan evaluations were conducted for the 5-year and 10-year periods to allow for changes that might occur in the evaluation factors over time.

Based on this evaluation process, the SWMPC's selected management system is Alternative A, Retain the Current Management System. Further details on the evaluation process and the non-selected alternatives are provided in Appendix B.

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 areas 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:

Sanilac County's selected alternative is to retain the current solid waste management system. An overview of the major components of this system follows.

- 1. Collection and Transportation of Solid Waste. The existing collection and transportation system will remain in place. Solid waste collection services will continue to be provided to all county residents, businesses, and industries. These services will continue to mainly be provided by private enterprise through a free market system that utilizes both municipal contracts and individual arrangements with solid waste haulers. However, it is not this plan's intent to preclude involvement by municipalities from providing solid waste collection services to citizens within their respective jurisdictions. The plan also encourages local units of government to consider the benefits of arranging for solid waste services through municipal contracts, although such arrangements are certainly not mandated.
- 2. Disposal of Solid Waste. Licensed Type II landfills in Sanilac, Huron, Macomb, and Genesee Counties will meet Sanilac County's solid waste disposal needs for the planning period. The Oakland County Plan Update has also authorized the acceptance of solid waste exports from Sanilac County. Finally, landfills in St. Clair County will provide additional disposal capacity on a contingency basis.
- 3. Recycling. Under the selected alternative, Sanilac County will continue to operate a Materials Recovery Facility for collection of recyclable materials. Curbside recycling service and recycling drop-off sites are established in several communities, which are described in the following pages. All local governments are encouraged to provide recycling opportunities for their residents, either through arrangements for drop-off

sites or the provision of curbside collection for recyclables. Recycling services are expected to continue to be mainly provided by the County MRF & recycling program, and through private enterprise. However, this does not preclude other entities -- such as environmental organizations, private non-profit groups, and others -- from becoming involved in recycling activities. The plan encourages the involvement of such groups in materials recovery efforts.

- 4. Composting. Collection of yard wastes from residents for composting will be continued by the private sector. Currently, curbside collection of yard waste is limited to the Village of Carsonville. However, residents may drop of yard waste for composting at the Tri-City RDF and at the Cove Landfill in Hiron County. "Backyard" composting by residents will also continue to be encouraged. Municipalities are encouraged to provide composting opportunities for their residents as needs dictate, either through curbside collection of yard wastes or through local drop-off sites. Again, it expected that composting services will continue to be furnished by the private sector. The plan, however, does not intend to limit the ability of any local government unit to establish a composting site and program.
- 5. Separation of Household Hazardous Wastes. There is presently collection of used motor oil and household batteries at the MRF. The County should work in partnership with the private solid waste industry to explore ways to provide expanded opportunities for separation and collection of potentially hazardous wastes from residents and from agriculture.
- 6. Resource Conservation and Waste Reduction. Resource conservation and waste reduction will be encouraged through the voluntary efforts of residents, businesses, and industries. The County should investigate ways to expand public information and education in this area.
- 7. Public Information and Education. Current educational efforts will be continued under the selected system, such as the programs that are conducted through MSU Extension. Current efforts are described in greater detail later in this section. The County should investigate ways to coordinate and enhance these efforts.

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
Sanilac	<u>Tuscola</u>	Tri-City RDF	DAILI	AININUAL	<u>P*</u>
Sanilac	<u>Huron</u>	Tri-City RDF			<u>P*</u>
Sanilac	Lapeer	Tri-City RDF			<u>P*</u>
Sanilac	Genesee	Tri-City RDF			<u>P*</u>
Sanilac	<u>Oakland</u>	Tri-City RDF			<u>P*</u>
Sanilac	Macomb	Tri-City RDF		•	<u>P*</u>
Sanilac	St. Clair	Tri-City RDF	,		<u>C*</u>
Sanilac	Oakland	Tri-City RDF			<u>P*</u>

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

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME ¹	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS ²
Sanilac	None	None planned			
All control of the co		· · · · · · · · · · · · · · · · · · ·		and the second s	
			<u></u>		
**************************************				V .	

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 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
Sanilac	<u>Huron</u>	Cove Landfill			
Sanilac	Macomb	Pine Tree Acres		80,000 cy	
Sanilac	Genesee		<u>1,166 TPD</u>		
Sanilac	St. Clair	Approximation (Additional	***************************************		<u>C*</u>
Sanilac	Oakland	-			*
Additional authorizations and the above information for those authorizations are listed on an attached page.					

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

EXPORTING COUNTY	IMPORTING COUNTY	FACILITY NAME ¹	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS ²			
Sanilac	Lapeer			***************************************	*			
	-							
				.				
	· · · · · · · · · · · · · · · · · · ·			***************************************				
		400000000000000000000000000000000000000	and the state of t					
Additional authorizations and the above information for those authorizations are listed on an attached page.								

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.

SOLID WASTE DISPOSAL AREAS

The following identifies the names of existing disposal areas which will be utilized to provide the required capacity and management needs for the solid waste generated within the County for the next five years and, if possible, the next ten years. Pages III-7-1 through III-7-5 contain descriptions of the solid waste disposal facilities which are located within the County and the disposal facilities located outside of the County which will be utilized by the County for the planning period. Additional facilities within the County with applicable permits and licenses may be utilized as they are sited by this Plan, or amended into this Plan, and become available for disposal. If this Plan update is amended to identify additional facilities in other counties outside the County, those facilities 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:

Type A Transfer Facility.

Tri-City RDF (Sanilac Co.)
Cove Landfill (Huron Co.)
Pine Tree Acres (Macomb Co.)
Brent Run (Genesee Co.)
Citizen's Disposal (Genesee Co.)
Eagle Valley (Oakland Co.)

None

Type B Transfer Facility:
None

Type III Landfill:

None

Processing Plant:

None

Incinerator:

Waste Piles:

None

None

Waste-to-Energy Incinerator.

None

Other:

None

Additional facilities are listed on an attached page. Letters from or agreements with the listed disposal areas owners/operators stating their facility capacity and willingness to accept the County's solid waste are in the AttachmentsSection.

Facility Name: Tri-City Recycling & Di	icaccal Escili	· · · · · · · · · · · · · · · · · · ·
County: Sanilac Location: Town: 12N	_	
County. Samual Location. Town. 1214	(Milgo. <u>1313</u> _t	500 LLOXI(3). <u>52</u>
Map identifying location included in At	tachment Sec	ction: X Yes No
If facility is an Incinerator or a Transfer	Station, list	the final disposal site and location for Incinerator ash or
Transfer Station wastes		•
☐ Public ☑ Private Owner: Wa	ste Managen	nent
Operating Status (check)	Waste Tur	pes Received (check all that apply)
	E-31	residential
open closed licensed unlicensed construction permit open, but closure		commercial
□ licensed	X	industrial
unlicensed	Ħ	construction & demolition
X construction permit	$\overline{\boxtimes}$	contaminated soils
open, but closure	\boxtimes	special wastes *
pending		other:
* Explanation of special wastes, including	ng a specific	list and/or conditions:
Paper pulp, shredded foam, food produc		
Site Size:		
Total area of facility property:		195.4 acres
Total area sited for use:		195.4 acres
Total area permitted:		<u>125</u> acres
Operating:		<u>31.6</u> acres
Not excavated:		<u>93.4</u> acres
Current capacity:		$10.780.000$ tons or \boxtimes yds ³
Estimated lifetime:		22 years
Estimated days open per year:		<u>272</u> days
Estimated yearly disposal volume:		330.000 \square tons or \square yds ³
(if applicable)		
Annual energy production:		
Landfill gas recovery projects:		NA megawatts
Waste-to-energy incinerators		NA megawatts

Facility Type: Type II Landfill Facility Name: Cove Landfill	
County: <u>Huron</u> Location: Town: <u>15N</u>	Range: 12E_Section(s): 22
Map identifying location included in Attach	ment Section: X Yes No
If facility is an Incinerator or a Transfer State Transfer Station wastes Public Private Owner Cove Land	tion, list the final disposal site and location for Incinerator ash or Ifill of Bad Axe Inc.
Operating Status (check) W	aste Types Received (check all that apply)
X open	X residential
	X commercial
X licensed	X industrial
	X construction & demolition
X construction permit	X contaminated soils
open, but closure	special wastes *
pending	other:_
* Explanation of special wastes, including a	
Site Size:	
Total area of facility property:	<u>53.4</u> acres
Total area sited for use:	41.8 acres
Total area permitted	acres
Operating:	<u>6.84</u> acres
Not excavated:	0 acres
Current capacity:	1.150.000 tons or X yds ³
Estimated lifetime:	10 years
Estimated days open per year:	<u>290</u> days
Estimated yearly disposal volume:	$100,000$ \square tons or X yds ³
(if applicable)	
Annual energy production:	
Landfill gas recovery projects:	N/A megawatts
Waste-to-energy incinerators	<u>N/A</u> megawatts

Facility Type: Type II Landfill Facility Name: Pine Tree Acres Landfill	
County: Macomb Location: Town: 41	N_Range: 14E_Section(s): 23.24
Map identifying location included in Att	achment Section: Yes X No
If facility is an Incinerator or a Transfer Transfer Station wastes:	Station, list the final disposal site and location for Incinerator ash or
Public X Private Owner: Waste Ma	anagement
Operating Status (check) X open Closed X licensed Unlicensed Construction permit Open, but closure pending * Explanation of special wastes, including Sludge, Auto Fluff	Waste Types Received (check all that apply) X residential X commercial X industrial X construction & demolition X contaminated soils X special wastes * Other: g a specific list and/or conditions:
Site Size: Total area of facility property: Total area sited for use: Total area permitted: Operating: Not excavated:	568 acres 460 acres 161.2 acres 86.1 acres 75.1 acres
Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume:	7,200,000
With current expansion, future capacity ((if applicable) Annual energy production: Landfill gas recovery projects: Waste-to-energy incinerators:	will be 59,000,000 cyds and a lifetime of 27 years 4 megawatts megawatts

Facility Type: Type II Landfill	
Facility Name: Brent Run Landfill	
County: Genesee Location: Town: 9N	Range: <u>5E</u> Section(s): <u>23</u>
Map identifying location included in Attac	chment Section. Yes X No
If facility is an Incinerator or a Transfer Station wastes	station, list the final disposal site and location for Incinerator ash of
Public X Private Owner: Republic Se	ervices
Operating Status (check) X open closed X licensed unlicensed construction permit open, but closure pending * Explanation of special wastes, including	Waste Types Received (check all that apply) X residential X commercial X industrial X construction & demolition X contaminated soils Special wastes * other: g a specific list and/or conditions:
Site Size: Total area of facility property: Total area sited for use Total area permitted: Operating: Not excavated: Current capacity: Estimated lifetime: Estimated days open per year:	160 acres 90 acres 30 acres 15 acres 45 acres 10.247.000 ☐ tons or X yds³ 18 years 312 days
Estimated days open per year. Estimated yearly disposal volume:	$\frac{720,000}{\text{Tons or X yds}^3}$
(if applicable) Annual energy production: Landfill gas recovery projects: Waste-to-energy incinerators:	NA megawatts NA megawatts

Facility Type: Type II Landfill		
Facility Name: Citizen's Disposal		
County: Genesee Location: Town	n: <u>6N</u> Range: <u>6</u>	E Section(s): 23
Map identifying location included in	Attachment Se	ction: Yes X No
If facility is an Incinerator or a Transf	fer Station, list	the final disposal site and location for Incinerator ash or
Transfer Station wastes		
Public X Private Owner: Allied	Waste Industri	es
Operating Status (check)	Waste Ty	pes Received (check all that apply)
X open	X	residential
closed	. X	commercial
X licensed	X	industrial
unlicensed	X	construction & demolition
construction permit	X	contaminated soils
X licensed unlicensed construction permit open, but closure	X	special wastes *
pending	X	other: asbestos _
* Explanation of special wastes, included All special waste requires review & approximate approximate approximate approximately		list and/or conditions: acceptance, including analytical data & waste profile.
Site Size:		
Total area of facility property:		<u>300</u> acres
Total area sited for use		<u>300</u> acres
Total area permitted:		$\underline{52}$ acres
Operating:		$\underline{52}$ acres
Not excavated:		80 acres
Current capacity:		$5.300,000 \Box \text{tons or } X \text{yds}^3$
Estimated lifetime		25 years
Estimated days open per year:		300 days
Estimated yearly disposal volume:		
(if applicable)		
Annual energy production:		
Landfill gas recovery projects:		2.4 megawatts
Waste-to-energy incinerators:		NA megawatts
T		

Facility Type: Type II Landfill		
Facility Name: Eagle Valley Recycling	g & Disposal 1	Facility
County: Oakland Location: Town	: <u>4N</u> Range: <u>J</u>	<u>10E</u> Section(s): 26, 27, 35
Map identifying location included in A	Attachment Se	ection: Yes X No
If facility is an Incinerator or a Transf	er Station, list	t the final disposal site and location for Incinerator ash or
Transfer Station wastes:		
Public X Private Owner: Waste I	Management	•
Operating Status (check)	Waste Ty	pes Received (check all that apply)
X open	X	residential
closed	X	commercial
X licensed unlicensed construction permit open, but closure	X	industrial
unlicensed	X	construction & demolition
construction permit	X	contaminated soils
open, but closure	X	special wastes *
pending		other: _
treated medical waste, contaminated d	e, process was	clist and/or conditions: stes, coal ash, chemical containing equipment, used containers ris, street sweepings, sediment trap materials.
Site Size:		
Total area of facility property:		330 acres
Total area sited for use		330 acres
Total area permitted:		89 acres
Operating: Not excavated:		<u>75.7</u> acres <u>7.8</u> acres
Current capacity:		4,800,000 tons or X yds ³
Estimated lifetime:		<u>5.5</u> years
Estimated days open per year:		286 days
Estimated yearly disposal volume:		tons or X yds ³
(if applicable)		
Annual energy production:		
Landfill gas recovery projects:		233,000 MMBTU/year
Waste-to-energy incinerators:		NA megawatts

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 existing collection and transportation system, as previously described, will remain in place. The various solid waste collection and transportation firms doing business in the county may change due to municipal contracts, mergers, and other factors.

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		
Waste reduction education efforts aimed at businesses & industries					
Waste reduction education efforts aimed at general public					
Projected waste reduction through combined efforts (all the above)	0	3%	6%		
		. ,			
		<u> </u>			
		٠.			
		·			

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 utilized 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 <u>Current</u> 5th yr 10th yr				
Efforts mainly limited to techniques practiced by private solid	Unknown				
waste industry & recycling program operators: compacting, baling,					
shredding, and so forth			-		

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 that may be available for recycling or composting programs. How conditions in the County affect or may affect a recycling or composting program and potential benefits derived from these programs is also discussed. Impediments to recycling or composting programs which exist or which may exist in the future are listed, followed by a discussion regarding reducing or eliminating such impediments.

Sanilac County has operated a Materials Recovery Facility (MRF) since 1992 that provides recycling opportunities to all county residents. Private solid waste haulers that furnish collection of recyclables also deliver materials to the MRF. Materials accepted are newspapers, office paper, corrugated, magazines, aluminum, steel cans, #1 and #2 plastic, glass, polystyrene, and household batteries. Approximately 1,117 tons of material were recycled in 1997. The program's goal is to achieve recycling of 25% of the county's solid waste stream. The County MRF operation will be continued under the updated Solid Waste Plan.

Curbside recycling is provided in the following communities: Sandusky, Port Sanilac, Marlette, Deckerville, and Carsonville. Recycling drop-off sites are also furnished in Carsonville, Croswell, Marlette, Peck, Sandusky (at the MRF), Snover, and at the Tri-City RDF.

Composting in the county is largely practiced voluntarily by residents at their homes. Yard waste collection is provided by some private haulers and municipalities. Also, yard waste may be dropped off at the Tri-City RDF and at the Cove Landfill in Huron County. Under the updated plan, home composting by residents will continue to be encouraged through education efforts. Also, municipalities will be encouraged to establish composting programs where they are best suited to the needs of residents. These may include municipality-sponsored programs, services furnished by the private sector, or some combination. However, experience indicates that there is a low demand for yard waste collection services or large-scale composting operations due to the rural nature of the County.

Current programs for separation of potentially hazardous materials include collection of used motor oil and household batteries at the MRF. Also, some local scrap dealers accept automotive batteries, appliances, and white goods.

\boxtimes	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:
	See the preceding discussion

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:
See the preceding discussion
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 hat been determined that it is not feasible to conduct any separation programs because of the following:

See the preceding discussion.

RECYCLING AND COMPOSTING

The following is a brief analysis of the recycling and composting programs selected for the County in this 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, Tables III-1, III-2, & III-3 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. Tables III-4, III-5, & III-6 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.

As previously indicated, Sanilac County has an established and successful MRF and recycling program in place. This program will be continued under the updated plan. Composting is currently practiced as home composting by residents and through collection of yard wastes by private haulers and some municipalities, as well as yard waste drop-off sites at area landfills. These practices will continue and will be encouraged through educations efforts under the updated plan. Also, municipalities will be encouraged to establish local composting sites according to needs and interest levels.

RECYCLING:

Program Name	Service Area	Public or Private	Collection Point ³		Materials Collected ⁵	Program Mana Development	gement Responsi Operation	sibilities ² Evaluation
Sanilac County MRF	Sanilac County	Public	MRF	₫	ABCDEF	2	2	2
Carsonville Drop-Off Site	Sanilac County	Public	<u>d</u>	<u>d</u>	ABCDEF	<u>2</u>	2	2
Croswell Drop-Off Site	Sanilac County	Public	<u>d</u>	<u>d</u>	ABCDEF	<u>2</u>	2	<u>2</u>
Marlette Drop-Off Site	Sanilac County	Public	₫	<u>d</u>	ABCDEF	<u>2</u>	<u>2</u>	<u>2</u>
Peck Drop-Off Site	Sanilac County	Public	<u>d</u>	<u>d</u>	ABCDEF	<u>2</u>	<u>2</u>	<u>2</u>
Snover Drop-Off Site	Sanilac County	<u>Public</u>	<u>d</u>	<u>d</u>	ABCDEF	<u>2</u>	<u>2</u>	<u>2</u>
Tri-City RDF	Sanilac County	Private	<u>d</u>	Wed only	ABCDEF	<u>5</u>	<u>5</u>	<u>5</u>
Sandusky Curbside	Sandusky City	Private	<u>c</u>	<u>w</u>	ABCDEF	City	<u>5</u>	<u>City</u>
Port Sanilac Curbside	Port Sanilac Village	Private	<u>c</u>	<u>w</u>	ABCDEF	Village	<u>5</u>	Village
Marlette Curbside	Marlette City	Private	<u>c</u>	$\underline{\mathbf{w}}$	ABCDEF	City	<u>5</u>	City
Deckerville Curbside	Deckerville Village	Private	<u>c</u>	<u>w</u>	ABCDEF	Village	<u>5</u>	Village
Carsonville Curbside	Carsonville Village	Private	<u>c</u>	<u>w</u>	ABCDEF	Village	<u>5</u>	Village

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 26); 5 = Private Owner/Operator; 6 = Other (Identified on page 26).

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.

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 27.



RECYCLING:

Program Name	Service Area	Public or Private	Collection Point ³	Collection Frequency	Materials Collected ⁵	Program Mana Development	gement Respons Operation	ibilities ² Evaluation
				١				
Deckerville Curbside	Deckerville Village	Private	<u>c</u>	<u>w</u>	ABCDEF	Village	<u>5</u>	Village
Carsonville Curbside	Carsonville Village	<u>Private</u>	<u>c</u>	<u>w</u>	ABCDEF	Village	<u>5</u>	Village

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 27); 5 = Private Owner/Operator; 6 = Other (Identified on page 27).

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 28.

COMPOSTING:

Program Name		Service Area	Public or Private	Collection Point ³	Collection Frequency ⁴	Materials Collected ⁵	Program Mana Development	gement Respons Operation	sibilities ² Evaluation
Tri-City RDF Compost Site		Sanilac County	Private	<u>d</u>	w	GL	<u>5</u>	<u>5</u>	<u>5</u>
Also, home composting &	z some				` <u> </u>	***************************************			
municipal yard waste					***********	***************************************			
collection.					4,				
					was and the same of the same o				warenda and delivery
					***********	·	49,48	de Alexandro Production de la Constitución de la Co	
			***************************************			************		and the second second	

				-		***************************************			

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 26); 5 = Private Owner/Operator; 6 = Other (Identified on page 26).

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 27.



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	Public or Private	Collection Point ³	Collection Frequency	Materials Collected ⁵	Program Mana Development	gement Responsi Operation	sibilities ² Evaluation
						-		
Sanilac County Recycling	Sanilac County	<u>Public</u>	MRF	<u>d</u>	<u>B2. U</u>	<u>2</u>	2	2
				*				
							-	

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 26); 5 = Private Owner/Operator; 6 = Other (Identified on page 26).

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

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.

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.

PROPOSED RECYCLING:

Program Name	Service Area	Public or	Collection	Collection	Materials	Program Mana Development	igement Respor	nsibilities ²
(if known)		Private	Point ³	Frequency ⁴	Collected ⁵	Development	Operation	Evaluation

Continuation	Sanilac County	***************************************				-		
of current program.		**************************************			Printed Company of the St.		***************************************	
		************						***************************************
		interior de la constitu					-	-
			description of the same				Adaption and a state of the sta	
				-				
		*************	***************************************			agraphic metalograph	and the second	

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 26); 5 = Private Owner/Operator; 6 = Other (Identified on page 26).

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 27.



PROPOSED COMPOSTING:

Program Name,	Service Area	Public or	Collection	Collection	Materials	Program Mana Development	gement Respons	
(if known)		<u>Private</u>	Point ³	Frequency	Collected	Development	Operation	Evaluation
					***************	***********		***************************************
Promotion of home composting	Sanilac County							
& municipal composting sites					***************************************		******	
as desired.						· · ·		The second second
	•		***************************************					***********
		***		***************************************				Approximately and specimens
					-			***************************************

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 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 26); 5 = Private Owner/Operator; 6 = Other (Identified on page 26).

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.

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 27.

PROPOSED SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS:

Program Name,	Service Area					Program Mana		sibilities ²
(if known)		<u>Private</u>	Point ³	Frequency	Collected ⁵	Development	Operation	Evaluation
				·				
								
None								and a second
Additional programs and the a	above information for those programs	are listed or	n an attached	page.				

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 26); 5 = Private Owner/Operator; 6 = Other (Identified on page 26).

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.

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.

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.

Environmental Groups:

None with program management responsibilities

Other.

Sanilac County has the management responsibility for its MRF and countywide recycling program, as described elsewhere in this document. Day-to-day operations of the MRF are managed by the County MRF Director.

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	l Annual T	ons Diverted:	Collected Material:	Projected	Annual Tor	s Diverted.
	Current	5th Yr	10th Yr		Current	5th Yr	10th Yr
A. TOTAL PLASTICS:	<u>52</u>	<u>55</u>	<u>57</u>	G. GRASS AND LEAVES:	**********	·	
B. NEWSPAPER:	<u>541</u>	<u>568</u>	<u>595</u>	H. TOTAL WOOD WASTE:			
C. CORRUGATED CONTAINERS: D. TOTAL OTHER PAPER: E. TOTAL GLASS:	200 124 90	210 130 95	220 136 99	I. CONSTRUCTION AND DEMOLITION: J. FOOD AND FOOD PROCESSING: K. TIRES:			
F. OTHER MATERIALS:				L. TOTAL METALS:	<u>47</u>	<u>49</u>	<u>52</u>
F1		·		F3			
F2				F4			ĺ

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 <u>Markets</u>	Out-of-State <u>Markets</u>	Collected Material	In-State <u>Markets</u>	Out-of-State Markets
A. TOTAL PLASTICS	<u>100%</u>		G. GRASS AND LEAVES:		
B. NEWSPAPER:	<u>100%</u>		H. TOTAL WOOD WASTE:		
C. CORRUGATED CONTAINERS:	<u>100%</u>		I. CONSTRUCTION AND DEMOLITION:		
D. TOTAL OTHER PAPER:	100%		J. FOOD AND FOOD PROCESSING		
E. TOTAL GLASS: F. OTHER MATERIALS:	100%		K. TIRES: L. TOTAL METALS:	100%	
F1			F3	-	
F2			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	w, r, n, o, f, e (fair)	s 1-6, p, b	<u>Ex</u>
2	o, f, e (fair)	<u>s K-12, p</u>	<u>Ex</u>
3,4	<u>w,f</u>	<u>s 1-3, p</u>	<u>Ex</u>
4	w, f, e (fair, classrooms)	<u>s 1-12</u>	Conservation District
4	w, n, f, e (fair)	<u>p.b</u>	Conservation District
	Tours	<u>s K-12</u>	MRF
1	Teacher workbooks	<u>s 2</u>	ISD
<u>4</u>	Teacher workbooks	<u>s 4</u>	ISD

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

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

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.

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.

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.

TIMETABLE FOR SELECTED SYSTEM IMPLEMENTATION

This timetable is a guideline to implement components of the Selected System. The <u>Timeline</u> gives a range of time in which the component will be implemented such as "1995-1999" or "On-going." Timelines may be adjusted later, if necessary.

TABLE III-7

Management Components	Timeline
Resource Conservation Efforts	Ongoing
Volume Reduction Techniques	Ongoing
Resource Recovery Programs	Ongoing
Collection & Transportation	Ongoing
Disposal Areas	Ongoing
Management Arrangements	Ongoing
Educational & Informational Programs	Ongoing
,	

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.

No new solid waste facilities may be sited in Sanilac County under this plan.

SITING CRITERIA AND PROCESS

The following process describes the criteria and procedures to be used to site solid waste disposal facilities and determine consistency with this Plan. (attach additional pages if necessary)

Sanilac County has access to over 10 years of disposal capacity. Therefore, a siting process is not required. Please refer to the capacity information on page IV-1.

SOLID WASTE MANAGEMENT COMPONENTS¹

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

SEE ATTACHED PAGES

¹ Components or subcomponents may be added to this table.

Existing Management Capabilities

A. Ongoing Planning, Coordination, and Plan Implementation

Countywide solid waste management planning and coordination is an ongoing process. Act 451 requires that the Solid Waste Plan is updated every five years and that plan implementation must be ensured through the assignment of management responsibilities.

The East Central Michigan Planning and Development Regional Commission (ECMPDR) has been assigned the responsibility of overseeing the plan update. ECMPDR, as the designated solid waste management planning agency, has coordinated the plan update process with the Solid Waste Management Planning Committee.

Coordination and cooperation among the municipalities in Sanilac County, and between the public and private sectors are major elements of successful plan implementation. The Solid Waste Management Planning Committee has outlined a way to achieve this coordination. However, the duties of this committee are officially completed once the updated plan receives final approval. No other existing organization is available to serve this function.

B. Collection and Transportation of Solid Waste

The private solid waste management industry currently provides solid waste collection and transportation services to all parts of Sanilac County, either through municipal contracts or individual subscriptions with homes and businesses. No public agency in the county presently operates a solid waste collection and transportation system. The private sector can continue to provide these services economically and efficiently as long as disposal facilities are available within a reasonable distance.

C. Construction, Operation, and Maintenance of Solid Waste Facilities

With the exception of Type B transfer facilities, the construction and operation of solid waste facilities in compliance with Act 451 is a costly undertaking that cannot typically be accomplished by a single rural municipality. Rural municipalities, such as townships, have the financial capabilities to develop Type B transfer facilities. However, the operation and maintenance of these facilities is most typically performed by the private solid waste industry.

There is currently no county agency with the administrative and technical capabilities to operate a solid waste disposal facility. The County Board of Public Works has the legal authority to own and operate a solid waste facility in accordance with this plan and applicable laws. However, the County Board of Public Works is not currently authorized to take on this responsibility.

The private sector has constructed the Tri-City Recycling and Disposal Facility, and it has the capabilities to operate the facility in accordance with Act 451. These arrangements will continue under this updated plan.

Sanilac County has the administrative and technical capabilities to operate a Materials Recovery Facility (MRF) and recycling program. The County will continue to operate the MRF and recycling program under this updated plan.

D. Financial Capabilities

The municipalities and residents of Sanilac County have the capability to finance the collection and transportation of solid waste by entering into contracts with private haulers. Sanilac County is the only public agency with the capability to construct and operate a solid waste disposal facility, such as a sanitary landfill. The construction of a disposal facility is a costly undertaking that cannot typically be financed by an individual rural municipality. The private solid waste industry has constructed the present disposal facility in the County, and it has the financial capabilities to continue to operate the facility. Sanilac County also has the financial capabilities to operate the MRF and recycling program.

E. Regulation and Enforcement

Regulations for construction and operation of solid waste facilities are defined by state legislation, particularly Act 451. The Michigan Department of Environmental Quality is the enforcement body for compliance with Act 451 within the county. For specific enforcement of the various provisions of the County Solid Waste Management Plan, the Sanilac County Board of Commissioners is empowered to identify violations of this plan and to bring suit against violators as required.

Recommended Management System

The updated plan recommends the establishment of a single advisory body at the county level to oversee plan implementation. This body would address various tasks and make recommendations within the areas specified in the plan. The advisory body will represent the same groups as specified for planning committees in Act 451. However, to distinguish the role of the advisory board from that of the planning committee, the body will be called the Sanilac County Solid Waste Management Advisory Board (SWMAB). The Advisory Board may require staff assistance to carry out its duties, and the county may assign staff for this purpose. Alternatively, the County may contract with qualified personnel to assist the SWMAB as needed.

Other entities with management responsibilities for carrying out the plan's various provisions are identified on the following pages.

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 - All citizens, businesses, and industries. Educational & promotional efforts by Solid Waste Management Advisory Board (SWMAB) & MSU Extension.

Product Reuse - All citizens, businesses, and industries. Educational & promotional efforts by Solid Waste Management Advisory Board (SWMAB) & MSU Extension.

Reduced Material Volume - All citizens, businesses, and industries. Educational & promotional efforts by Solid Waste Management Advisory Board (SWMAB) & MSU Extension.

Increased Product Lifetime - All citizens, businesses, and industries. Educational & promotional efforts by Solid Waste Management Advisory Board (SWMAB) & MSU Extension.

Decreased Consumption - All citizens, businesses, and industries. Educational & promotional efforts by Solid Waste Management Advisory Board (SWMAB) & MSU Extension.

Resource Recovery Programs:

Composting - Residents, municipalities, private solid waste industry.

Recycling - County MRF Director, MSU Extension, SWMAB, municipalities, residents, businesses, industries, private solid waste industry.

Energy Production – Not included in plan.

<u>Volume Reduction Techniques</u>: Private solid waste industry (collection & disposal operations), County MRF. Also residents, businesses, and industries through voluntary efforts.

Collection Processes: Private solid waste industry & municipalities.

Collection Processes: Private solid waste industry & municipalities.

Transportation: Private solid waste industry.

Disposal Areas:

Processing Plants – None included in plan.

Incineration – Not included in plan.

Transfer Stations – Type B. Private solid waste industry & municipalities.

Sanitary Landfills – Private solid waste industry.

<u>Ultimate Disposal Area Uses:</u> Private solid waste industry with input from host municipality.

<u>Local Responsibility for Plan Update Monitoring & Enforcement:</u> SWMAB (plan implementation monitoring), County Board of Commissioners (plan enforcement), Michigan DEQ (Act 451 enforcement)

Educational and Informational Programs: SWMAB and MSU Extension

Documentation of acceptance of responsibilities is contained in Appendix D.

LOCAL ORDINANCES AND REGULATIONS AFFECTING SOLID WASTE DISPOSAL

		tion(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:
В.		Geographic area/Unit of government
		Type of disposal area affected:
	u.	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:

\boxtimes	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.

___ Additional listings are on attached pages.

Local regulations governing the following subjects may be adopted by Sanilac County and all local government units within the County:

- 1. The following facility design elements: greenbelts, landscaping, screening, and fencing.
- 2. Hours of facility operation.
- 3. Control of noise, litter, dust, odors, and pest species at a solid waste facility.
- 4. Operating records and reports for solid waste facilities.
- 5. Site security at solid waste facilities.
- 6. Monitoring of wastes accepted and prohibited at solid waste facilities.
- 7. Prohibition of open burning of yard wastes.

CAPACITY CERTIFICATIONS

Every County with less than ten years of capacity identified in their Plan is required to annually prepare and submit to the DEQ an analysis and certification of solid waste disposal capacity validly available to the County. This certification is required to be prepared and approved by the County Board of Commissioners.

\boxtimes	This County has more than ten years capacity identified in this Plan and an annual certification process is not included in this Plan
	Ten years of disposal capacity has not been identified in this Plan. The County will annually submit capacity certifications to the DEQ by June 30 of each year on the form provided by DEQ. The County's process for determination of annual capacity and submission of the County's capacity certification is as follows:

Facility	Capacity (cubic yards	Life Expectancy
Tri-City RDF (Sanilac County)	10,780,100	22 years
Cove (Huron County)	1,150,000	10 years
Pine Tree Acres (Macomb County)	7,200,000*	8 years
Brent Run (Genesee County)	10,247,000**	18 years
Citizens Disposal (Genesee County)	5,300,000**	25 years
Eagle Valley RDF (Oakland County)	4,800,000	5.5 years
GRAND TOTAL	39,477,100	

^{*} Sanilac County authorized to export 80,000 cubic yards annually to Pine Tree Acres.

Over the next ten years (2000 – 2009), Sanilac County is projected to generate a total volume of 1,412,375 cubic yards of solid waste. This figure is based on current disposal volumes and projected county growth. The figure has not been adjusted for any additional diversion that may occur due to increases in materials recovery volumes. For final disposal volumes, a compaction ratio of 2.1 has been assumed. On this basis, Sanilac County will require about 706,188 cubic yards of landfill capacity for the next 10 years. This represents about two percent (2 %) of the total capacity shown above. All of the listed landfills have included Sanilac County's solid waste generation in their projected disposal volumes and life expectancies. The volume limits imposed by Macomb and Genesee Counties, as indicated above, have also been considered in calculating the disposal volume that will be available to Sanilac County.

Also, the Oakland County Plan authorizes the acceptance of solid waste from Sanilac County, and Sanilac's Plan contains a similar provision for acceptance of waste from Oakland County at the Tri-City facility. In actual practice, however, it appears unlikely that much movement of solid

^{**} Sanilac County authorized to export 1,166 tons (3,498 cubic yards) per day to Genesee County.

waste between Sanilac and Oakland Counties will take place. Therefore, capacity at Oakland County facilities has not been included in this determination of disposal capacity that is available to Sanilac County.

The aggregate capacity that is available to Sanilac County is shown below.

Facility

Available Capacity (cubic yards)

Tri-City RDF (Sanilac County) 10,780,100 Cove (Huron County) 1,150,000

Pine Tree Acres (Macomb County) 800,000 (10 years @ 80,000 cyds per year)

Genesee County sites (2) 10,494,000

(10 years @ 3,498 cyds/day & approx. 300 operating days per year)

TOTAL AVAILABLE TO SANILAC

23,224,100 cubic yards

Based on the preceding volume calculations, it is estimated that Sanilac County has accesss to sufficient disposal capacity for over 32 years. However, the facilities with the longest life expectancies are Citizens Disposal (25 years) and Tri-City RDF (22 years). With this in mind, a more conservative estimate is 20 to 25 years of disposal capacity.

Sanilac County Solid Waste Management Plan Update

APPENDIX

ADDITIONAL INFORMATION

REGARDING THE

SELECTED

SYSTEM

EVALUATION OF RECYCLING

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

An overview of current recycling programs in Sanilac County has been presented in the "Overview of Resource Recovery Programs" section in the main body of the plan document on page III-16.

Sanilac County has operated a Materials Recovery Facility (MRF) since 1992 that provides recycling opportunities to all county residents. Private solid waste haulers that furnish collection of recyclables also deliver materials to the MRF. Materials accepted are newspapers, office paper, corrugated, magazines, aluminum, steel cans, #1 and #2 plastic, glass, polystyrene, and household batteries. Approximately 1,117 tons of material were recycled in 1997. The program's goal is to achieve recycling of 25% of the county's solid waste stream. The County MRF operation will be continued under the updated Solid Waste Plan.

Curbside recycling is provided in the following communities: Sandusky, Port Sanilac, Marlette, Deckerville, Carsonville, Croswell, and Lexington. Recycling drop-off sites are also furnished in Carsonville, Croswell, Marlette, Peck, Sandusky (at the MRF), Snover, and at the Tri-City RDF.

Composting in the county is largely practiced voluntarily by residents at their homes. Yard waste collection is provided by some private haulers and municipalities. Also, yard waste may be dropped off at the Tri-City RDF and at the Cove Landfill in Huron County. Under the updated plan, home composting by residents will continue to be encouraged through education efforts. Also, municipalities will be encouraged to establish composting programs where they are best suited to the needs of residents. These may include municipality-sponsored programs, services furnished by the private sector, or some combination. However, experience indicates that there is a low demand for yard waste collection services or large-scale composting operations due to the rural nature of the County.

Current programs for separation of potentially hazardous materials include collection of used motor oil and household batteries at the MRF. Also, some local scrap dealers accept automotive batteries, appliances, and white goods

DETAILED FEATURES OF RECYCLING AND COMPOSTING PROGRAMS:

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

A detailed waste stream assessment has never been conducted for Sanilac County. The quantities of various materials that are available for recovery have been estimated based on the solid waste components identified for similar rural areas and current solid waste generation estimates for the County. The following estimates are based on total annual solid waste generation of about 43,794 tons.

Material	% of Waste Stream	Annual Quantity (Tons)
Paper (all types)	15%	6,569
Plastics	9%	3,941
Glass	5%	2,190
Ferrous metals	7%	3,066
Aluminum	0.8%	350
Yard waste	4%	1,752

The following briefly describes the processes used or to be 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 also summarized along with how those problems were addressed:

Equipment Selection

Existing Programs:

RECYCLING: Equipment is currently selected by private the solid waste industry and the County MRF as their needs dictate. No major problems have been encountered in the selection of this equipment.

COMPOSTING: Current equipment selection is addressed by the private solid waste industry in providing yard waste collection services in various communities. Municipalities that provide some form of yard waste collection generally utilize normal public works equipment such as portable chippers for brush. No specific problems with equipment selection have been reported and no major new equipment needs have been identified.

Proposed Programs:

No new programs or equipment needs have been identified.

Site Availability & Selection

Existing Programs

RECYCLING: Programs will continue to operate at their existing sites, mainly at the County MRF in Sandusky and at various municipal drop-off sites. No specific site needs have been identified. However, any municipality that wishes to establish a recycling drop-off site for use by residents is encouraged to do so.

COMPOSTING: No specific site needs have been identified. The private solid waste industry that collects yard waste has made adquate arrangements for compositing areas, usually adjacent to the existing landfill sites. Municipalities that collect yard waste & brush generally utilize vacant publicly-owned sites for placement of material.

Proposed Programs:

No new programs or siting needs have been identifed.

Composting Operating Parameters:

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

Not applicable to Sanilac County. There are no commercial composting programs in operation in the County.

Existing Programs:				
Program Name	pH Range	Heat Range	Other Parameter	Measuremen
<u>Unit</u>		4		
		-		
·				
				
				
	·			
Proposed Programs:				
<u>Program Name</u> <u>Unit</u>	pH Range	Heat Range	Other Parameter	Measurement

COORDINATION EFFORTS:

Solid Waste Management Plans need to 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 are described below which are considered necessary to successfully implement this system within the County. In addition, proposed arrangements are recommended which 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. Additionally, 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.

- 1. The municipalities within Sanilac County may enter into agreements (i.e., contracts) with other entities, both public and private, for solid waste management services, including the collection and transportation of solid waste, recyclable materials, and yard waste.
- 2. The Sanilac County Board of Commissioners may negotiate written inter-county agreements with specified counties for acceptance of solid waste generated in Sanilac County for disposal at landfills located in other counties.
- 3. This updated plan calls for the creation of a Solid Waste Management Advisory Board (SWMAB) to oversee and generally coordinate the implementation of the plan. As such, the SWMAB will work in cooperation with County government, local government units, the private solid waste industry, businesses, industries, institutions, and the general public to facilitate the various actions required to carry out the updated Solid Waste Management Plan.
- 4. The County Board of Commissioners has entered into a Host Community Agreement with Waste Management concerning the operation of the Tri-City Recycling & Disposal Facility. In general, this Plan Update is consistent with the Host Agreement. However, some of the topics covered by the agreement are beyond the scope of this plan.

COSTS & FUNDING:

The following estimates the necessary management, capital, and 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 ¹	Estimated Costs	Potential Funding Sources
Resource Conservation Efforts	None	Private enterprise voluntary efforts by businesses, industries & institutions
Resource Recovery Programs	Current operating: \$70,000 annually	Sanilac County Board of Commissioners, material sales, municipalities, private enterprise.
Volume Reduction Techniques	Unknown	Private enterprise
Collection Processes	Unknown	Private enterprise & customer fees.
Transportation	Unknown	Private enterprise
Disposal Areas	Unknown	Private enterprise & customer fees.
Future Disposal Area Uses	None	Private enterprise & host counties:
Management Arrangements	Unknown	Sanilac County Board of Commissioners
Educational & Informational Programs	\$30,000 annually	Sanilac County Board of Commissioners, private enterprise, municipalities.

¹ These components and their subcomponents may vary with each system.

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 which would occur as a result of implementing this Selected System. 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. Impacts to the resource recovery programs created by the solid waste collection system, local support groups, institutional arrangements, and the population in the County in addition to market availability for the collected materials and the transportation network were also considered. Impediments to implementing the solid waste management system are identified and proposed activities which will help overcome those problems are also addressed to assure successful programs. The Selected System was also evaluated as to how it relates to the Michigan Solid Waste Policy's goals. The following summarizes the findings of this evaluation and the basis for selecting this system:

The selected system is technically and economically feasible. All of the major components, including collection, transportation, disposal, recycling, and composting are proven technologies that are currently in place and have been accepted by the public. The selected plan is essentially a continuation of the current management system.

The following discussion describes the anticipated positive and negative impacts on public health, economics, environmental conditions, siting considerations, existing disposal areas, and energy consumption and production.

PUBLIC HEALTH

The selected plan relies mainly on the available landfills located in Sanilac and other counties for final disposal of solid waste. Landfills that are properly sited, constructed, and operated will have minimal effects on groundwater and the environment.

Recycling and composting may reduce public health impacts by removing materials from the waste stream that would otherwise go to a disposal facility.

The proper collection and transportation of solid waste reduces the potential for negative health impacts.

ECONOMICS

Landfilling is stll the most economical method of solid waste disposal. However, landfilling could be costly if a landfill is improperly designed or operated, resulting in surface or groundwater pollution. The selected plan relies on landfills located in Sanilac and surrounding counties that are in full compliance with Act 451 and other applicable laws. Properly designed and operated landfills will minimize the risk of pollution. However, landfilling will also result in the disposal of materials that could be recycled or reused at a lower cost than the

manufacture of new materials.

It is this plan's intent that the County may explore and implement all feasible options in the future for financing resource recovery programs, including educational programs. This includes the authority to impose waste disposal surcharges, as recently (October 1998) determined by the Michigan Court of Appeals.

The recycling component of the selected system also has positive economic impacts by generating revenues from the sale of materials. However, these revenues are typically subject to wide market fluctuations, and they are not expected to entirely offset the costs of operation.

Solid waste collection through an open market system provides competive pricing and economies of scale. Transfer stations can provide cost savings by making collection routes more efficient and reducing the transportation costs incurred by collection vehicles.

ENVIRONMENTAL CONDITIONS

The selected system will have minimal environmental impacts because it does not call for the siting of any major new solid waste facilities

Recycling and composting facilities help to reduce reliance on landfills and, consequently, they also help to reduce the environmental consequences of landfills. However, recycling and composting facilities can also cause nuisance conditions if they are not properly designed and maintained. Also, composting facilities can have odor problems if they are not properly operated.

SITING CONSIDERATIONS

The selected system will have minimal impacts on siting because no new facilities are proposed. Landfills are extremely difficult to site because of public opposition and the need to identify an environmentally sound location that will meet all Act 451 requirements. Sanilac County has access to sufficient capacity for the next 10 years and beyond. There is no need to site a new landfill or any other disposal facilities.

EXISTING DISPOSAL AREAS

The selected plan relies on the existing landfills in Sanilac, Huron, Macomb, and Lapeer Counties to provide disposal capacity for the next 10 years. No new landfills will be required.

ENERGY CONSUMPTION AND PRODUCTION

The selected plan relies on a landfill located in Sanilac County for the disposal of most of the County's solid waste. The current system results in less energy consumption than if all solid waste had to be transported to disposal facilities located outside Sanilac County.

The transportation of recyclable materials and yard waste also consumes energy. However, materials recovery can also save energy by reusing certain items, or substituting recycled materials for newly manufactured components.

Sanitary landfills represent a loss of energy resources due to the burial of materials that could

be otherwise recovered and utilized. However, methane gas can be recovered from landfills which is then used as an energy source. Methane recovery currently takes place at the Pine Tree Acres Landfill in Macomb County that is identified in this plan.

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. Major components already in place
- 2. System is accepted by the public
- 3. Minimal costs
- 4. No new sites or facilities required
- 5. No major institutional changes required

DISADVANTAGES:

1 No strong incentive to increase materials recovery much beyond current levels

NON-SELECTED

SYSTEMS

Before selecting the solid waste management system contained within this Plan update, the County developed and considered other alternative systems. The details of the non-selected systems are available for review in the County's repository. The following section provides a brief description of these non-selected systems and an explanation why they were not selected. Complete one evaluation summary for each non-selected alternative system.

ALTERNATIVE B: ENHANCED MATERIALS RECOVERY

Under this option, use of the present landfill as the primary means of disposal would continue. However, attention would focus on the expansion of recycling and composting opportunities within the County.

ALTERNATIVE C: REGIONAL SOLID WASTE MANAGEMENT SYSTEM
This alternative called for the creation of a regional solid waste management system in
cooperation with several surrounding counties. This option would involve the creation of a
formal solid waste management authority or similar entity.

Alternative B SYSTEM COMPONENTS:

The following briefly describes the various components of the non-selected system.

RESOURCE CONSERVATION EFFORTS:

Voluntary measures by consumers, businesses, and industries.

VOLUME REDUCTION TECHNIQUES:

Use of volume reduction equipment by private solid waste industry & materials recovery programs: compactors, balers, shredders.

RESOURCE RECOVERY PROGRAMS:

- 1. Expanded curbside recycling in municipalities
- 2. Yard waste collection by private industry & municipalities.
- 3. Home composting by residents.

COLLECTION PROCESSES:

Collection mainly by private solid waste industry under municipal contracts & individual subscriptions.

TRANSPORTATION:

Transportation mainly by private solid waste industry.

DISPOSAL AREAS:

Tri-City RDF in Sanilac County and available landfills located in Huron, Macomb, and possibly Lapeer, Genesee, and St. Clair Counties.

INSTITUTIONAL ARRANGEMENTS:

- 1 Arrangements for solid waste collection & transportation under municipal contracts and individual subscriptions with residents & businesses
- 2. Inter-county agreements between Sanilac County and counties where available landfills are located, if required by the importing counties

EDUCATIONAL AND INFORMATIONAL PROGRAMS:

Countywide education programs conducted by MSU Extension, or other entity.

CAPITAL, OPERATIONAL, AND MAINTENANCE COSTS:

Specific costs are unknown. Operating costs would be greater than the existing system due to cost for increased collection and transportation of recyclable materials.

EVALUATION SUMMARY OF NON-SELECTED SYSTEM:

The non-selected system was evaluated to determine its potential of impacting human health, economics, 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 why this system was not chosen to be implemented.

The technical and economic feasibility of implementing this alternative (enhanced materials recovery) were judged to be less desirable than the selected system. Also, this alternative would consume more energy due to expanded collection and transportation of recyclable materials.

Also, opportunities for materials recovery are widely available under the selected system. There is no documented demand for additional services in this regard. Under the selected system, local governments are free to establish resource recovery programs in any manner they feel best suits the needs of their residents. This arrangement was judged to be preferable to mandating recovery programs under Alternative B.

ADVANTAGES AND DISADVANTAGES OF THE NON-SELECTED SYSTEM:

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 this non-selected system.

ADVANTAGES:

- 1. 1. Increased levels of materials recovery
- 2. Greater conservation of landfill space through diversion.
- 3. Low capital costs due to minimal facility requirements.

DISADVANTAGES:

- 1. 1. Higher operating costs for expanded collection & transportation of recyclable materials
- 2. Municipalities would need to accept expanded responsibilities for contracting for solid waste services.
- 3. Municipalities & residents would need to accept higher costs for expanded recycling collection, either curbside or through establishment of additional drop-off sites.

Alternative C

SYSTEM COMPONENTS:

The following briefly describes the various components of the non-selected system.

RESOURCE CONSERVATION EFFORTS:

Voluntary measures by consumers, businesses, and industries

VOLUME REDUCTION TECHNIQUES:

Use of volume reduction equipment by private solid waste industry & materials recovery programs: compactors, balers, shredders

RESOURCE RECOVERY PROGRAMS:

- 1. Potential development of regional MRF and composting facility.
- 2 Regional marketing of recyclable materials and compost

COLLECTION PROCESSES:

Collection mainly by private solid waste industry under contracts with regional solid waste authority or similar entity.

TRANSPORTATION:

Transportation mainly by private solid waste industry

DISPOSAL AREAS:

Landfills located in other counties

INSTITUTIONAL ARRANGEMENTS:

1. Establishment of formal multi-county solid waste management authority or similar entity.

- 2. Agreements between authority & counties for solid waste services.
- 3. Agreements between municipalities and counties and/or directly with authority for solid waste services.
- 4. Agreements between authority and private solid waste industry for collection, transportation, and other solid waste services.

EDUCATIONAL AND INFORMATIONAL PROGRAMS:

Programs carried out by multi-county authority

CAPITAL, OPERATIONAL, AND MAINTENANCE COSTS:

- 1. High initial start-up costs for establishment of authority, administration & staffing.
- 2. Potential high capital costs for regional materials recovery & composting facilities.

EVALUATION SUMMARY OF NON-SELECTED SYSTEM:

The non-selected system was evaluated to determine its potential of impacting human health, economics, 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 why this system was not chosen to be implemented.

ALTERNATIVE C

Again, the evaluation of this alternative was similar to the selected system in many respects. However, there were also some significant differences. The following discussion describes the positive and negative impacts on public health, economics, environmental conditions, siting considerations, existing disposal areas, and energy consumption and production, as they differ from the selected system:

- 1. This alternative would be expected to have somewhat greater public health benefits than the selected system by further reducing reliance on landfills through a higher level of materials recovery. Proper collection of solid waste would be better served by contracting for collection services on a regional basis.
- 2. This option would generate greater revenues from recycled materials by collecting a larger quantity of materials. Also, it may be possible to achieve cost savings on solid waste services by obtaining competitive bids on a regional basis. However, higher costs would be associated with the initial formation of an authority, and with the development of regional resource recovery facilities. Feasibility studies would need to be conducted for such facilities, and their proposed capital and operating costs are not presently known.
- 3. Like the selected system, no new disposal areas would need to be sited under this alternative

The existing landfills that presently serve the counties participating in the authority would continue to be used. However, as previously noted, large-scale regional materials recovery and waste processing facilities are considered to be part of this alternative. Such facilities would face public opposition and would be difficult to site.

4. Energy would also be consumed under this alternative to collect and transport solid waste, recyclable materials, and yard waste. However, there would presumably be greater energy savings through a greater level of materials recovery. Depending on the locations of materials recovery and processing facilities, there may be greater fuel consumption to transport materials than under the selected system.

Alternative C was not selected for the following major reasons:

- 1. A major problem associated with the alternative is the complexity of creating a regional solid waste authority. In particular, there does not presently appear to be any strong support for this concept. Local governments are likely to perceive the creation of a solid waste authority as a loss of home rule authority. Also, the formation of an authority would likely be perceived as creating another level of government ("bureaucracy") and would meet with public opposition. The private solid waste industry would probably also oppose the formation of an authority as excessively restrictive or unfairly competitive. Without strong support by elected officials, the public, and private industry, a proposed solid waste authority would not succeed.
- 2. There are simply too many technical, economic, and political uncertainties to make a regional system feasible at this time. However, the concept does hold potential, and it should be reevaluated in the future as the solid waste management systems in the region continue to evolve.

ADVANTAGES AND DISADVANTAGES OF THE NON-SELECTED SYSTEM:

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 this non-selected system

ADVANTAGES:

- 1 Regional collection & marketing of recyclable materials
- 2. Regional purchasing of recycled products
- 3. Potential cost savings through regional contracts for solid waste services.

DISADVANTAGES:

1. Political barriers to establishing multi-county authority.

- 2. Higher costs for regional processing facilities.
- 3. Opposition to siting any new solid waste facilities.

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, and a description of the appointment of the solid waste management planning committee along with the members of that committee.

Several mechanisms were used to encourage involvement by local governments and the public in the Solid Waste Management Plan update process. These are summarized below:

- 1. Time for public comment was reserved on the agenda for each meeting of the Planning Committee.
- 2. Notices of each Planning Committee meeting were distributed to all municipalities in the County in advance of each meeting
- 3. A general notice was published as required that announced the general availability of the draft plan when it was released for public review for a three-month period.
- 4. The draft plan was distributed to all municipalities in the County and adjacent counties for review.
- 5 A general notice announcing the public hearing on the draft plan was published at least 30 days prior to the hearing.
- 6. A public hearing was held on the draft plan to provide all interested persons an opportunity to voice questions or concerns regarding the updated plan.

PUBLIC PARTICIPATION

<u>PUBLIC INVOLVEMENT PROCESS</u>: A description of the process used, including dates of public meetings, copies of public notices, documentation of approval from solid waste planning committee, County board of commissioners, and municipalities.

The public involvement process is described on the preceding page. The Solid Waste Management Planning Committee met on the following dates:

January 14, 1998 March 11, 1998 April 8, 1998 May 13, 1998 October 29, 1998 May 26, 1999 August 18, 1999 (Public Hearing) November 10, 1999

PLAN APPROVALS:

The updated County Solid Waste Management Plan was approved by the County Solid Waste Management Planning Committee on November 10, 1999.

The updated Solid Waste Management Plan was approved by the Sanilac County Board of Commissioners on May 2, 2000.

The updated Solid V	Vaste Management	Plan was submitted to the municipalities within Sanilac
County on	, 2000.	
The updated Solid V	Waste Management	Plan was approved by 67% of the municipalities in the
County on	, 2000.	
The updated Solid V	Vaste Management	Plan was submitted to the Michigan Department of
Environmental Qual	ity on	, 2000.
The updated Solid V	Vaste Management	Plan was approved by the Michigan Department of
Environmental Qual	ity on	2000

PLANNING COMMITTEE APPOINTMENT PROCEDURE:

The County Board of Commissioners developed a list of potential candidates for the Planning Committee, including several individuals who had been involved in the preparation of the County's previous Solid Waste Plan under Act 641, and a proposed plan amendment that had been started before the current update process. After reviewing the list of candidates, the County Board appointed the 14 member Planning Committee in January 1998. Additional appointments were made as necessary over the course of the plan update to fill vacancies.

PLANNING COMMITTEE

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

Four representatives of the solid waste management industry:

- 1. Gordon Wills, Waste Management (Tri-City RDF)
- 2. Richard Everts, Cove Sanitation
- 3 Joe Osterhout, Automotive Manufacturing
- 4. Christina (Borg) Miller, County Recycling Coordinator, Vice-Chair

One representative from an industrial waste generator:

1 Karl Stacer, Paramount Industries

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

- 1 Darlene Doerr, Citizens Against Rural Exploitation ("CARE")
- 2. Harold Schlichting, Citizens Against Rural Exploitation ("CARE")

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

1. Richard Gonnering, County Health Department (County Board Designee)

One representative from township government:

1 Robert Tanton, Bridgehampton Township Supervisor, Committee Chair

One representative from city government

1 Ken Babich, Mayor, City of Marlette

One representative from the regional solid waste planning agency

1. Sue Fortune, Executive Director, East Central Michigan Planning & Development Regional Commission.

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

- 1 Theresa Glaza, Snover resident
- Art Garlick, Marlette resident
- 3 Milt Disser, Lexington resident

13:25

East Central Michigan Planning & Development Regional Commission Designated Solid Waste Management Planning Agency 3535 State Street Saginaw MI 48602 Telephone 517-797-0800

Notice of Public Meeting

Sanilac County Solid Waste Management Planning Committee

Date: Wednesday, March 10, 1999

Time: 7:00 p.m.

Place:

Board of Commissioners Meeting Room Sanilac County Court House, 2nd Floor 60 West Sanilac Street Sandusky Michigan 48471

Agenda

- CALL TO ORDER
- 2. APPROVAL OF AGENDA
- 3. COMMUNICATIONS
 - a. Inter-County Communications
- 4. COMMITTEE ORGANIZATION
 - Committee vacancies/appointments
 - b. Election of Officers: Chair, Vice-Chair, Secretary
- 5. SOLID WASTE MANAGEMENT PLAN UPDATE
 - a. Review of Draft Plan Update Document
 - b. Attachments: Appendix and Executive Summary
- 6. PUBLIC REVIEW PERIOD FOR DRAFT PLAN
 - a. Establish release date for draft plan
 - b. Establish public review period for draft plan
 - c. Set public hearing date for draft plan
- 7. SET DATE OF NEXT MEETING
- 8. PUBLIC COMMENT
- ADJOURNMENT

East Central Michigan Planning & Development Regional Commission Designated Solid Waste Management Planning Agency Telephone 517-797-0800 3535 State Street Saginaw MI 48602

Notice of Public Meeting

Sanilac County Solid Waste Management Planning Committee

Date: Wednesday, August 18, 1999

Time: 7:00 p.m.

Place:

Board of Commissioners Meeting Room Sanilac County Court House, 2nd Floor 60 West Sanilac Street Sandusky Michigan 48471

Agenda

- 1. CALL TO ORDER
- APPROVAL OF MINUTES
- APPROVAL OF AGENDA
- 4. PUBLIC HEARING ON THE DRAFT COUNTY SOLID WASTE MANAGEMENT PLAN UPDATE
 - A. Overview of the Solid Waste Plan Update (Doug Bell, ECMPDR)
 - B. Open Public Hearing
 - C. Review written comments received on the draft plan.
 - D. Accept verbal comments on the draft plan from those in attendance.
 - E. Close public hearing.
- 5. SET DATE OF NEXT MEETING
- 6. ADJOURNMENT

13:25

Sanilac County Solid Waste Management Planning Committee Sanilac County Court House 60 West Sanilac Sandusky. Michigan

May 26, 1999

Minutes

(Draft - Not Approved)

- 1. Call to Order. The meeting was called to order at 7:10 p.m. by Vice-Chair Tanton. Present: Doerr, Gonnering, Wills, Schlichting, Stacer, Tanton., Everts, Borg, Glaza. A quorum was present.
- Committee Organization/Election of Officers. Due to the resignation of several members, it was necessary to elect a Chair and Vice Chair for the remainder of the plan update process.

Election of Chair: Motion by Gonnering, support by Wills to elect Bob Tanton as Chair. Yes: All. No: None. Motion carried.

Election of Vice-Chair: Motion by Tanton, support by Gonnering to elect Christina Borg as Vice-Chair, Yes: All. No: None. Motion carried,

- Solid Waste Management Plan Update. The committee reviewed the draft plan that had been previously mailed and noted various changes. These are summarized below:
 - a. The plan should clarify that additional disposal sites in the county (other than Tri-City) will not be permitted.
 - b. References to the volume limitation at Tri-City should be expressed as an annual volume cap instead of a daily maximum.
 - c. Christina Borg provided updated information on curbside recycling programs and recycling dropoff sites that are available in the county.
 - d. A facility description for the Pine Tree Acres Landfill in Macomb County should be added.
- 4. Public Review Period for Draft Solid Waste Plan.
 - a. Motion by Schlichting, support by Gonnering to release the draft plan for public review, with the changes noted above. Yes: All. No: None. Motion carried.
 - Motion by Borg, support by Gonnering to establish the public review period as June 16 through September 13, 1999. Yes: All, No: None. Motion carried.
 - c. Motion by Schlichting, suppport by Gonnering to set the public heating on the draft plan for August 18, with August 11 as an alternate date if necessary. Yes: All. No: None. Motion carried.
- Date of Next Meeting. The next committee meeting will be the public hearing on August 18 at 7:00 p.m.
- 6. Adjournment. The meeting was adjourned at 8:30 p.m.

Respectfully submitted,

Douglas A. Bell Recording Secretary

Public Notice of Availability Proposed Update of the Sanilac County Solid Waste Management Plan

The Sanilac County Solid Waste Management Planning Committee (SWMPC) has prepared an update of the Sanilac County Solid Waste Management Plan. The updated County Solid Waste Management Plan has been prepared in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

The proposed Solid Waste Management Plan will be available for public review and comment through the close of business on September 13, 1999. The draft plan is available for inspection at the Sanilac County Board of Commissioners Office, Sanilac County Court House, 60 West Sanilac Street, Sandusky, MI 48471 during regular business hours. The plan is also available for inspection at the East Central Michigan Planning and Development Regional Commission, the designated solid waste planning agency for Sanilac County, at the address given below. The draft plan is also being sent to each township, village, and city in Sanilac County.

Written comments on the draft plan should be sent to the East Central Michigan Planning and Development Regional Commission, 3535 State Street, Saginaw, MI 48602; telephone 517-797-0800; fax 517-797-0896.

Please also note that a public hearing has tentatively been scheduled on August 18, 1999 to receive written and verbal comments on the draft plan. A separate notice of the public hearing will be published and circulated at a later date.

Your views on the updated Sanilac County Solid Waste Management Plan are welcomed and encouraged

Notice of Public Hearing Sanilac County Solid Waste Management Plan Update

The Sanilac County Solid Waste Management Planning Committee will hold a public hearing on the proposed update of the Sanilac County Solid Waste Management Plan. The public hearing will be held as follows:

> Date: Wednesday, August 18, 1999 Time: 7:00 p.m. Place: County Board of Commissioners Meeting Room Sanilac County Court House, 2nd Floor 60 West Sanilac Street Sandusky Michigan 48471

SAG CO PLANNING

The purpose of the hearing is to accept public comments on the proposed Solid Waste Management Plan update. Both written and verbal comments will be accepted at the hearing.

The proposed Solid Waste Management Plan is available for public review and comment through the close of business on September 13, 1999. The draft plan is available for inspection at the Sanilac County Board of Commissioners Office, Sanilac County Court House, 60 West Sanilac Street, Sandusky, MI 48471 during regular business hours. The plan is also available for inspection at the East Central Michigan Planning and Development Regional Commission, the designated solid waste planning agency for Sanilac County, at the address given below. The draft plan has also been sent to each township, village, and city in Sanilac County.

Written comments on the draft plan should be sent to the East Central Michigan Planning and Development Regional Commission, 3535 State Street, Saginaw, MI 48602; telephone 517-797-0800; fax 517-797-0896.

Your views on the updated Sanilac County Solid Waste Management Plan are welcomed and encouraged.



Sanilac County

MAKTIN NAGELKIRK Director Crops Agent

KATHERINE E. HALE Extension Educator

CRAIG THOMAS Dairy Agent

CHRISTINA BORG Natural Resources Agent

MICHELLE L. COLLINS 4-H Youth Agent

MSU Exension 37 Austin Street Sandusky, MI 48471 (810) 648-7515 FAX: (810) 648-3087 sanilac@msue.msu.edu web: http://www.canr.msti edw/msue_thumb

Memo

235177976809

November 11, 1999

TO: Sanilac County Solid Waste Management Planning Committee Members

FROM: Christina Miller

RE: November 10, 1999 Meeting

I have enclosed a current member list as well as the meeting minutes. Please review both of these documents, if any errors are found please contact me as soon as possible.

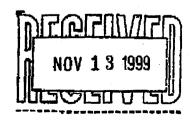
I have spoken with Doug Bell and informed him of the meeting. However, I had forgotten to ask him about the procedure of the plan. I will let Bob Tanton know as soon as I find out and if anyone else would like to know, please contact me. Sorry for any inconvenience.

Christina Miller

Natural Resources Agent

MSU Extension - Sanilac County

Enclosures



Sanilac County Solid Waste Management Planning Committee Sanilac County Court House 60 West Sanilac Sandusky, Michigan

November 10, 1999

Minutes

(Draft - Not Approved)

- 1. Call to order. The meeting was called to order at 7:15 p.m. by Chair Tanton. Present: Doerr, Gonnering, Wills, Tanton, Miller, Glaza, Osterhout, Everts, Garlick. A quorum was present. Introduction of new members.
- Approval of minutes. Minutes were not approved due to none presented.

25177976809

- 3. Approval of Agenda. Motion by Gonnering, supported by Wills to approve agenda. Yes: All. No: None. Motion carried.
- 4. Communications. None added.
- 5. Recommendations Concerning County MRF & Recycling Program. Motion by Doctr, supported by Gonnering to open recycling facility and have recycling options available to county residents for duration of plan. As well as to establish an Advisory Committee, to make recommendations to Sanilac County Board of Commissioners in regards to Resource Recovery in Sanilac County. Yes: All. No: None. Motion carried.
- 6. Review Comments Received on the Draft Solid Waste Plan Update & Proposed Responses.
 - a. Item #1: Motion by Garlick, supported by Gonnering to include the definition of contingency disposal in the Sanilac Plan under "Special Conditions" on page D-9.

 Yes: All. No: None. Motion carried.
 - b. Item #2: Motion by Everts, supported by Garlick to remove Lapeer from Table 2-A and should be added to Table 2-B. Yes: All. No: None. Motion carried.
 - c. Item #3: No change was needed. Just clarification.
 - d. Item #4: Motion by Miller, supported by Garlick to change III-31-2 E last line to, The Michigan Department of Environmental Quality and the Sanilac Board of Commissioners are the enforcement bodies for compliance with Act 451 within the county.

 Yes: All. No: None. Motion carried.
 - e. Item #5: List should reflect new members and both Schlichting and Doorr are affiliated with C.A.R.E. (Citizens Against Rural Exploitation) Please see attached member page.
 - f. Item #6: Skipped, this subject was already previously discussed under recommendations concerning county MRF and Recycling Program.
 - g. Item #7: Item was discussed, no action taken.
 - h. Item #8: Motion by Gonnering, supported by Miller to include the following items in the plan (a) average cost of household trash collection service; (b) cost of County MRF & Recycling Program; and (c) cost of resource recovery education programs.

 Yes: All. No: None. Motion carried.
 - i. Item #9: This information should be added to the Sanilac Plan, however the question regarding the specific amount of yards per day arose. Do we need to determine a specific amount?
- 7. Consider approval of the Solid Waste Plan Update with Changes as Specified by the Committee. Motion by Gonnering, supported by Everts to approve the Sanilac Plan, contingent on final copy being reviewed by members prior to submitting to Board of Commissioners. Yes: 7. No: 2. Motion carried.
- 8. Date of Next Meeting. The next meeting will be January 12 at 7:00 p.m.
- 9. Adjournment. The meeting was adjourned at 10:15 p.m.

Respectfully submitted,

Christiva Miller Vice-Chair

278

THE PERSON OF TH

Tuesday, May 2, 2000

WHEREAS, the Ordinance revision process is cumbersome and expensive; and

WHEREAS, the State of Michigan statutes provide for enforcement; and

WHEREAS, Sanilac County will comply with State law.

WHEREAS, on May 2, 2000 the Sanilac County Board of Commissioners held a public hearing for the purpose of taking public testimony on this subject;

NOW THEREFORE, BE IT RESOLVED that the Sanilac County Board of Commissioners hereby repeals the Sanilac County Animal Control Ordinance.

FURTHER, authorizes and directs the Sanilac County Animal Control Officer and the Board of Commissioners Secretary to implement and the Administrator/Controller to make the adjustments necessary to do so.

Yeas: Fabian, Wood, Merriman, Grout, Booms, Teeple and Young. Nays: None. Resolution declared adopted.

Committee Reports:

Commissioner Teeple reported on the items discussed at the April 27th meeting of the Human Services Committee. Commissioner Fabian reported Maggie Ewalt, who is the Director of the Connection, will act as the interim director of the Health Department at a rate of \$25.00 per hour for 10 hrs. per week.

Commissioner Grout reported on the April 25th meeting of the Physical & Economic Development Committee and acknowledged a thank you letter for the copier from Adult Probation.

Commissioner Fabian reported on the Public Safety & Courts Committee meeting of April 26.

NEW BUSINESS:

MS-005-00(A) MOVED BY COMMISSIONER GROUT AND SECONDED BY/COMMISSIONER TEEPLE THAT THE SANILAC COUNTY BOARD OF COMMISSIONERS HEREBY ADOPTS THE BOARD OF HEALTH BY-LAWS AND RULES OF ORDER AS REVISED APRIL 26, 2000. FURTHER, DIRECTS THE HEALTH DEPARTMENT TO IMPLEMENT. Discussion held. Yeas: Wood, Booms, Merriman, Teeple, Grout, Fabian and Young. Nays: None. Motion carried.

HS-008-00 MOVED BY COMMISSIONER GROUT AND SECONDED BY COMMISSIONER WOOD THAT THE SANILAC COUNTY BOARD OF COMMISSIONERS HEREBY ADOPTS THE SANILAC COUNTY SOLID WASTE MANAGEMENT PLAN AS PRESENTED. FURTHER, AUTHORIZES AND

Tuesday, May 2, 2000

PLAN TO THE TOWNSHIPS, VILLAGES AND CITIES FOR THEIR CONSIDERATION. Discussion held on the plan being contingent upon the continued operation of the Material Recovery Facility, when public hearings were held and meeting with Doug Bell to explain the plan. Commissioner Merriman suggested a listing of changes made by the state be sent to the local units. Discussion held on a county commissioner attending the Solid Waste Planning meetings. Yeas: Teeple, Booms, Wood, Fabian, Merriman and Young. Nays: Grout. Motion carried.

FA-051-00 MOVED BY COMMISSIONER GROUT AND SECONDED BY COMMISSIONER TEEPLE THAT THE SANILAC COUNTY BOARD OF COMMISSIONERS HEREBY AUTHORIZES THE INFORMATION SYSTEMS DIRECTOR TO PURCHASE TEN (10) PERSONAL COMPUTERS, ADDITIONAL CABLING. DATA CONVERSION AND LEIN, SOS ACCESS FROM VARIOUS VENDORS AT A COST NOT TO EXCEED \$24,000,00. FURTHER, FUNDING IS TO BE DRAWN FROM THE DATA PROCESSING FUND. FURTHER. AUTHORIZES DISTRICT COURT, THE CLERK'S OFFICE AND THE INFORMATION SYSTEMS DIRECTOR TO IMPLEMENT AND MAKE THE ADJUSTMENTS ADMINISTRATOR/CONTROLLER TO NECESSARY TO DO SO. Discussion held on funding for the software for District Court. Yeas: Fabian, Teeple, Wood, Booms, Merriman, Grout and Young. Nays: None. Motion carried.

FA-064-00 MOVED BY COMMISSIONER FABIAN AND SECONDED BY COMMISSIONER GROUT THAT THE SANILAC COUNTY BOARD OF COMMISSIONERS HEREBY AUTHORIZES AND DIRECTS A 2% INCREASE IN WAGE IMPROVEMENTS FOR APPOINTED OFFICIALS, EFFECTIVE RETROACTIVELY TO 1/01/00. FURTHER, AUTHORIZES AND DIRECTS THE ADMINISTRATOR/CONTROLLER TO IMPLEMENT AND MAKE THE ADJUSTMENTS NECESSARY TO DO SO.

NAME	DEPARTMENT	CURRENT CLASS/	CURRENT SALARY
		STEP	
DAVID MYERS	FRIEND OF THE COURT	S/M 10 - 1YR	\$43,64 7.50
GAYLA EAGLE	INFORMATION SYSTEMS	S/M 09 - 1YR	\$42,620.50
JUDY DECKER	ADMIN/CONTROLLER	S/M 09	\$37,742.90
CINDY BOSTWICK	JUVENILE COURT	S/M 09 - 1YR	\$42,627.00
JOYCE PAGEL	DISTRICT COURT	SAM OB - 3YR	\$41,080.00
GREG FERRIBY	UNDERSHERIFF	S/M 97 -3YR	\$40,053.00
WENDI WILLING	ADMIN/CONTROLLER	S/M 07	\$33,248.28
CAROLE STIELER	CIRCUIT COURT	S/M 06 - 3YR	\$37,999.00
JAMES MATSON	animal Control	S/M 04 - 3YR	\$30,810.00
SANDRA SCHLAUD	PROBATE COURT	S/M 03 - 3YR	\$30,797.78
ANN LODING	FRIEND OF THE COURT	S/M 03 - 3YR	\$27,729.00
CLAUDIA MAEDEL	PUBLIC GUARDIAN	S/M 01 -3YR	524,648 .00
VACANT	VETERANS	S/M 01 -3YR	\$24,648.00
BRENDA SANFORD	PROSECUTOR	PTC 07 - 1YR	\$43,804,25



East Central Michigan Planning & Development Regional Commission Designated Solid Waste Management Planning Agency for Sanilac County 3144 Davenport Avenue, Suire 200 Saginaw MI 48602 Telephone 517-797-0800

June 2000

TO:

All Local Government Units in Sanilac County

FROM:

Sanilac County Solid Waste Management Planning Committee

East Central Michigan Planning & Development Regional Commission

RE:

Sanilac County Solid Waste Management Plan Update

Please find enclosed a copy of the updated Sanilac County Solid Waste Management Plan. The plan has been prepared in accordance with Part 115 of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

The Sanilac County Board of Commissioners has approved the updated plan that was prepared by the County Solid Waste Management Planning Committee. The draft plan was sent to each township, village, and city in the County in June 1999. A public hearing was held on the draft plan on August 18, 1999.

State law requires that the Solid Waste Plan must now be approved by at least 67% of all municipalities in the County. Therefore, we are requesting that you take formal action on the plan as soon as possible. A suggested resolution for this purpose is enclosed for your use.

Please send a copy of your completed resolution to the series, MSU Extension, 37 Austin Street, Sandusky MI 48471. Please send in your resolution as soon as possible, but no later than September 1, 2000.

Following local approval, the updated Solid Waste Plan will be submitted to the Michigan Department of Environmental Quality for final approval.

Thank you for giving this important matter your attention. Please contact Christina Miller at the MSU Extension Office (810-648-2515) if you have any questions.

Enclosure

XC:

Solid Waste Planning Committee County Board of Commissioners

2001 Solid Waste Management Plan

cipalities	Response	Comments
Argyle	approved	with unacceptable changes
Austin	approved	
Bridgehampton	approved	
Buel	approved	
City of Brown City	approved	
City of Croswell	no response	
City of Marlette	approved	
City of Sandusky	approved	
Custer	approved	
Delaware	approved	•
Elk	approved	
Elmer	approved	
Evergreen	approved	
Flynn	approved	
Forester	approved	
Fremont	approved	
Greenleaf	approved	
Lamotte	approved	
Lexington	approved	
Maple Valley	approved	
Marion	approved	
/ 'ette	approved	
ien	did not approve	
Moore	did not approve	
Sanilac	no response	
Speaker	approved	
Village of Applegate	no response	
Village of Carsonville	approved	
Village of Deckerville	approved	
Village of Forestville	no response	
Village of Lexington	approved	
Village of Melvin	approved	
Village of Minden City	approved	
Village of Peck	approved	
Village of Pt. Sanilac	waiting for response	
Washington	approved	
Watertown	waiting for response	
Wheatland	approved	
Worth	approved	

Resolution for Action on the Sanilac County Solid Waste Management Plan Update by Local Units of Government

WHEREAS,	Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and
WHEREAS,	The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee, and
WHEREAS,	The Township of Organia (Name of Local Unit)
	has reviewed the updated Solid Waste Plan and its recommendations,
NOW, THER	EFORE, BE IT RESOLVED that the Board/Council) of this
	municipality hereby <u>Approves/Disapproves</u>)
	the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended.
Resolution de	clared adopted at a regular meeting of the Board/Council)
of Organie of L	clared adopted at a regular meeting of the Board/Council) (Board/Council) (Coundle held on Sept 11, 2000. (Bate)
Jeny	Hillaker Elavael Gaff
Chief Elected	Official Clerk

ARGYLE TOWNSHIP ARGYLE, MI. 48410 A ZONED COMMUNITY

SUPERVISOR Jerry Hillaker 810-672-9370

TREASURER Linda Krumenacker

517-658-2280

CLERK Edward Pfaff 810-672-9370 TRUSTEES
Sally Henry
Bert Sutherland

John Merriman

Sept. 20,2000

At the regular meeting of the Argyle Township Borard on Sept. 11, 2000 the board did approve the county solid waste plan if two changes were made to the wording. See the attached page for desirered changes.

Edward Pfaff

Argyle Township Clerk

Attachment to page 111-30

Solid Waste Agreement

1

We need to change the wording of this agreement. No new or preexisting solid waste facilities may be sited in sanilac county under this plan.

We reserve the right to restrict any out of state out of county or out of country waste.

WHEREAS,	Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and	
WHEREAS,	The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and	
WHEREAS,	The Austin The of San ac County (Township/Village/City) (Name of Local Unit)	
	has reviewed the updated Solid Waste Plan and its recommendations;	
NOW, THEREFORE, BE IT RESOLVED that the Board Council) of this		
	municipality hereby 5 yars / Omay). (approved) (Approved Disapproved)	
the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended.		
Resolution declared adopted at a regular meeting of the North Brash Mtg., (Board/Council) of Ustin Dusy held on 8-10, 2000. (Name of Local Unit) (Date)		
1010	7-1	

Clerk

Chief Elected Official

WHEREAS,	Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and		
WHEREAS,	The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee, and		
WHEREAS,	The Township of Bridgehampton (Township/Village/City) (Name of Local Unit)		
	has reviewed the updated Solid Waste Plan and its recommendations,		
NOW, THEREFORE, BE IT RESOLVED that theBoard of this (Board/Council)			
	municipality hereby Approves (Approves/Disapproves)		
the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended.			
Resolution de	clared adopted at a regular meeting of the Board		
6	(Board/Council)		
of Bridgehampton Township held on August 3, 2000. (Name of Local Unit) (Date)			
(Trume of 12			
Teel &	Panlon Alana Wisienski		
Chief Elected	Official Clerk		

645-3515

WHEREAS,	Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and
WHEREAS,	The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee, and
WHEREAS,	The Township of Buel (Township/Village/City) (Name of Local Unit)
	has reviewed the updated Solid Waste Plan and its recommendations;
NOW, THEŔI	EFORE, BE IT RESOLVED that the Board of this (Board/Council)
	municipality hereby approves (Approves/Disapproves)
	the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended.
Resolution dec	clared adopted at a regular meeting of the Board (Board/Council)
of Buel - Name of L	Township held on July 23, 2001.
Momes	Source Dera M. Burns
Chief Elected (Official Clerk

WHEREAS,		dated Solid Waste Management Plan in atural Resources and Environmental mended, and
WHEREAS,		missioners has approved the plan as inty Solid Waste Management Planning
WHEREAS,	The Sownship of of of of of of of	(Name of Local Unit)
	has reviewed the updated Solid Wa	aste Plan and its recommendations;
NOW, THERI	EFORE, BE IT RESOLVED that th	
	municipality hereby Proves/Dis	sapproves)
	the Sanilac County Solid Waste Ma with Act 451, as amended	anagement Plan Update in accordance
		p 1
Resolution dec	clared adopted at a regular meeting of	of the Jownship
of $(1/\sqrt{3})$	ter held on &	(Board/Council)
(Name of L		Date)
otherins E	+moerr	Daniel S. Graves
Chief Elected	Official	Clerk

WHEREAS,	Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and	
WHEREAS,	The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee, and	
WHEREAS,	The TOWNSHIP of DELAWARE (Township/Village/City) (Name of Local Unit)	
	(Township/Village/City) (Name of Local Unit)	
has reviewed the updated Solid Waste Plan and its recommendations,		
NOW THER	EFORE BE IT RESOLVED that the BCARD of this	
	EFORE, BE IT RESOLVED that the BCARD of this (Board/Council)	
	municipality hereby APPROVES (Approves/Disapproves)	
	(Approves/Disapproves)	
	the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended.	
Resolution declared adopted at a regular meeting of the		
of DE	LAWARE held on September 12, 2000. ocal Unit) (Date)	
(Name of Local Unit) (Date)		
lemite	Klan James Bruseruck	
Chief Elected	Official (derk	

WHEREAS,	Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and		
WHEREAS,	The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and		
WHEREAS,	The ETT Two of EIK (Township/Village/City) (Name of Local Unit)		
	has reviewed the updated Solid Waste Plan and its recommendations,		
NOW, THEREFORE, BE IT RESOLVED that the Board of this (Board/Council)			
	municipality hereby Approves/Disapproves) (Approves/Disapproves)		
	the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended		
Resolution declared adopted at a regular meeting of the Board (Board/Council)			
of <u>EIK</u> (Name of Lo	held on August 30, 2000. (Date)		
Hoyd	Wast Cynthia & Play		
Chief Elected (Official Clerk		

* - - *

Attni Jin KnEesone

Resolution for Action on the Sanilac County Solid Waste Management Plan Update by Local Units of Government

WHEREAS,	Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and
WHEREAS,	prepared and submitted by the County Solid Waste Management Planning Committee, and
WHEREAS,	The frunckip of Chur (Township/Village/City) (Name of Local Unit)
	has reviewed the updated Solid Waste Plan and its recommendations;
NOW, THER	EFORE, BE IT RESOLVED that the of this of this
	municipality hereby (Approves/Disapproves)
	the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended
Resolution decorated of Name of L	clared adopted at a regular meeting of the foundly (Board/Council) (Board/Council) (Date) Clerk Clerk
	(100)-100

810-449-3087 FAX

WHEREAS,	Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and		
WHEREAS,	The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and		
WHEREAS,	The Lownship of Ever green (Name of Local Unit)		
	has reviewed the updated Solid Waste Plan and its recommendations;		
NOW, THEREFORE, BE IT RESOLVED that the Tup Booto of this (Board/Council)			
	municipality hereby <u>Cyproved</u> (Approves/Disapproves)		
the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended			
Resolution declared adopted at a regular meeting of the Lip. Board (Board Council) of Every Log, held on 9-14, 2000. (Name of Local Unit) (Date)			
\bigcirc \bigcirc	1201		

Chief Elected Official

Clerk

WHEREAS,	Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and		
WHEREAS,	The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and		
WHEREAS,	The Township of Flynn (Township/Village/City) of CName of Local Unit)		
	has reviewed the updated Solid Waste Plan and its recommendations,		
NOW, THEREFORE, BE IT RESOLVED that the Board Council) of this			
	municipality hereby Approves/Disapproves) (Approves/Disapproves)		
	the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended.		
Resolution dec	clared adopted at a regular meeting of the BOArd		
of Flynn (Name of L	clared adopted at a regular meeting of the BOArd (Board/Council) held on September 12, 2000. ocal Unit) (Date)		
Jose Bu	reges Robert Conely		
Chief Elected (Official Clerk		

WHEREAS,	Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and	
WHEREAS,	The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee, and	
WHEREAS,	The TOWNSHIP of FORESTER (Township/Village/City) (Name of Local Unit)	
	has reviewed the updated Solid Waste Plan and its recommendations;	
NOW, THEREFORE, BE IT RESOLVED that the BOARD (Board/Council) of this		
	municipality hereby APPROVES (Approves/Disapproves)	
the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended		
Resolution dec	clared adopted at a regular meeting of the <u>FORESTER_TOWNSHIP_BOARD</u> (Board/Council)	
of FORE (Name of L		
Claros	noe Raid Mayone & Hoenicke	
Chief Elected	·	

JUL 1 8 2001

Resolution for Action on the Sanilac County Solid Waste Management Plan Update by Local Units of Government

WHEREAS, Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and

WHEREAS, The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and

WHEREAS, The Township of Green fat (Township Village City) of (Name of Local Unit)

has reviewed the updated Solid Waste Plan and its recommendations;

NOW, THEREFORE, BE IT RESOLVED that the Board Council) of this

municipality hereby Approves/Disapproves)

the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended.

Resolution declared adopted at a regular meeting of the _

(Board/Council)
held on March 15, 2006.

(Name of Local Unit)

(Date)

12,445)

Chief Elected Official

Clerk

WHEREAS,	Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and		
WHEREAS,	The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee, and		
WHEREAS,	The Township of LAMOTTE (Township/Village/City) (Name of Local Unit)		
	has reviewed the updated Solid Waste Plan and its recommendations,		
NOW, THEREFORE, BE IT RESOLVED that the BOARD (Board/Council) of this			
	municipality hereby Approves/Disapproves) (Approves/Disapproves)		
	the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended		
Resolution decoration of Landon (Name of Landon)	clared adopted at a regular meeting of the BOARD (Board/Council) (Board/Council) (Date)		
James L.	Official Clerk		



WHEREAS,	Sanilac County has prepared an updaccordance with Part 115 of the Nat Protection Act, 1994 PA 451, as am	tural Resources and Environmental	
WHEREAS,	•	nissioners has approved the plan as ty Solid Waste Management Planning	
WHEREAS,	The Township of Le	exington (Name of Local Unit)	
	has reviewed the updated Solid Was	te Plan and its recommendations;	
NOW, THEREFORE, BE IT RESOLVED that the Board (Board/Council) of this			
	municipality hereby <u>Approves</u> (Approves/Disap	oproves)	
the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended			
Resolution dec	clared adopted at a regular meeting of		
		(Board/Council)	
(Name of Le		<u>Maý 17</u> , 2000 . 2001 ute)	
Wayne) Clackson	Carolyn J. Missiek	
Wayne Clark		Carolyn F. Misiak	
Chief Elected (Official	Clerk	

- WHEREAS, Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and
- WHEREAS, The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Connittee; and
- WHEREAS, The Township of Maple Valley has reviewed the updated Solid Waste Plan and its recommendations;
- NOW, THEREFORE, BE IT RESOLVED that the Board of this municipality hereby Approves

the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended.

Resolution declared adopted at the regular meeting of the Board of Maple Valley Township held on Aprit 10, 2001.

Chief Elected Official

Clerk



WHEREAS,	Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and
WHEREAS,	The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee, and
WHEREAS,	The of of
	has reviewed the updated Solid Waste Plan and its recommendations;
NOW, THERI	EFORE, BE IT RESOLVED that the of this of this
	municipality hereby (Approves/Disapproves)
	the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended.
Resolution dec	clared adopted at a regular meeting of the (Board/Council)
	(Board/Council)
(Name of L	held on, 200\$. ocal Unit) (Date)
andy;	Matella Beginte Bullance
Chief Elected	Official Clerk

WHEREAS,	~ ^ ^ ^	pdated Solid Waste Management Plan in latural Resources and Environmental mended; and
WHEREAS,	-	nmissioners has approved the plan as unty Solid Waste Management Planning
WHEREAS,	The TOWNSHIP of (Township/Village/City)	MARLETTE
	(Township/Village/City)	(Name of Local Unit)
	has reviewed the updated Solid W	aste Plan and its recommendations,
NOW, THER	EFORE, BE IT RESOLVED that the	ne BOARD of this (Board/Council)
	municipality hereby APPROVES (Approves/Di	S
	(Approves/Di	sapproves)
	the Sanilac County Solid Waste M with Act 451, as amended.	Sanagement Plan Update in accordance
Resolution de	clared adopted at a regular meeting	of the BOARD
of MARLETTE	TOWNSHIP held on	AUGUST 28 2000
(Name of L	ocal Unit)	(Date)
/	W. Wood	Marge Heussner
Chief Elected	Official	Clerk

WHEREAS,		pdated Solid Waste Management Plan in Vatural Resources and Environmental amended; and
WHEREAS,		mmissioners has approved the plan as bunty Solid Waste Management Planning
WHEREAS,	The Minden of a Township/Village/City)	(Name of Local Unit)
	has reviewed the updated Solid V	Vaste Plan and its recommendations;
NOW, THER	EFORE, BE IT RESOLVED that the	
	municipality hereby (Approves/1)	opraval isapproves)
	the Sanilac County Solid Waste I with Act 451, as amended.	Management Plan Update in accordance
Resolution de	clared adopted at a regular meeting	g of the Duard
of <u>Munic</u> (Name of L	Line Jaunskyheld on Cocal Unit)	g of the <u>Deard</u> (Board/Council) O1-02,2000,2001 (Date)
	Harfas	Maus Graff
Chief Elected	Official	Clerk

WHEREAS,	Sanilac County has prepared an upda accordance with Part 115 of the Natu Protection Act, 1994 PA 451, as ame	
WHEREAS,	The Sanilac County Board of Committee prepared and submitted by the Count Committee; and	issioners has approved the plan as y Solid Waste Management Planning
WHEREAS,	The Township of (Township/Village/City)	Moore (Name of Local Unit)
	has reviewed the updated Solid Wast	e Plan and its recommendations,
NOW, THER	EFORE, BE IT RESOLVED that the	Board of this (Board/Council)
	municipality hereby <u>Disapproves</u> (Approves/Disap	
	the Sanilac County Solid Waste Manwith Act 451, as amended.	agement Plan Update in accordance
Pacalutian de	clared adopted at a regular meeting of	the Board
		(Board/Council)
of Moor	e Township held on A (Do	ugust 2 , 2000. ute)
Grey D	, Supervisor	Annette Bradley Clerk

WHEREAS,	Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and
WHEREAS,	The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee, and
WHEREAS,	The Lownship of Speaker (Township/Village/City) (Name of Local Unit)
	has reviewed the updated Solid Waste Plan and its recommendations,
NOW, THER	EFORE, BE IT RESOLVED that the Board Council) of this
municipality hereby <u>Opproves/Disapproves</u> (Approves/Disapproves)	
	the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended.
	^

Resolution declared adopted at a regular meeting of the Board (Board Council)

of Speaker Journship held on (Board Council)

(Name of Local Unit) held on (Date)

Chief Elected Official Clerk

WHEREAS,	Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and
WHEREAS,	The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and
WHEREAS,	The TOWNSHIP of WASHINGTON (Township/Village/City) (Name of Local Unit)
	has reviewed the updated Solid Waste Plan and its recommendations,
NOW, THERI	EFORE, BE IT RESOLVED that the BOARD of this (Board/Council)
	municipality hereby APPROVES (Approves/Disapproves)
	the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended.
Resolution dec	clared adopted at a regular meeting of the BOARD (Board/Council)
of WASHIM (Name of L	(Board/Council) JGTON TWP held on SEPT 5, 2000. ocal Unit) (Date)
4	ntein ælpedjohn Palen

Clerk

Chief Elected Official

WHEREAS,	Sanilac County has prepared an updaccordance with Part 115 of the Nat Protection Act, 1994 PA 451, as am	
WHEREAS,	•	nissioners has approved the plan as nty Solid Waste Management Planning
WHEREAS,	The Township of of	Wheatland (Name of Local Unit)
	has reviewed the updated Solid Was	ste Plan and its recommendations;
NOW, THER	EFORE, BE IT RESOLVED that the	·
	municipality hereby Approves/Disc.	s approves)
	the Sanilac County Solid Waste Ma with Act 451, as amended.	nagement Plan Update in accordance
Resolution dec	clared adopted at a regular meeting o	f the Board (Rogrd/Council)
of Whea	clared adopted at a regular meeting of the notation of the not	2000.
(Name of L	ocal Unit) (1	Tate)
Charles w	Raddul	Sheri Donishon
Chief Elected	Official	Clerk

WORTH TOWNSHIP SANILAC COUNTY, STATE OF MICHIGAN

RESOLUTION # 2001 - 02

Resolution for Action on the Sanilac County Solid Waste Management Plan Update by Local Units of Government

WHEREAS, Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act,1994 PA 451, as amended; and

WHEREAS, The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and

WHEREAS, The Township of Worth

has reviewed the updated Solid Waste Plan and its recommendations;

NOW, THEREFORE, BE IT RESOLVED that the Board of Trustees of this

municipality hereby APPROVE

the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended.

Resolution declared adopted at a regular meeting of the Board of Trustees of Worth Township held February 21, 2001.

Janice L. Putz, Supervisor

Patricia E. Schade, Clerk



CITY OF BROWN CITY

A Progressive Industrial and Agricultural Community

4205 Main Street, Post Office Box 99, Brown City, Michigan 48416-0099 Phone (810) 346-2325 Fax (810) 346-3802

Resolution 00-16

Councilmembers:

Laura Carpenter Mike Lents Frank Lukacs Julie Miller Judy Murray Kelly Pavel

City Clerk: Barbara Seidel

City Treasurer: Bill Walters

Manager: Holmes

Police Chief: Ron Smith

DPW Supervisor: Dave Kinney

Administrative Assistant: David Van Cura

City Assessor: Mark Cunningham A RESOLUTION FOR ACTION ON THE SANILAC COUNTY SOLID WASTE MANAGEMENT PLAN UPDATE BY LOCAL UNITS OF GOVERNMENT.

WHEREAS, Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the National Resources and Environmental Protection Act, 1994 PA 451, as amended, and,

WHEREAS, The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee, and,

WHEREAS, The City of Brown City has reviewed the updated Solid Waste Plan and its recommendations,

NOW, THEREFORE BE IT RESOLVED THAT the City Council of the City of Brown City hereby approves the Sanilac County Solid Waste Management Plan in accordance with Act 451, as amended.

The foregoing Resolution was offered on October 9, 2000, by Councilmember Kelly Pavel, and supported by Councilmember Laura Carpenter. There followed a Roll Call Vote of the City Council:

Yeas: 5Nays: 0

Abstaining: $\frac{0}{1}$

A QUORUM BEING PRESENT - MOTION DECLARED YES CARRIED

I, Barbara J. Seidel, City Clerk of the City of Brown City, hereby certify that the above resolution is a true and accurate copy of a resolution passed by the City Council of the City of Brown City on October 9, 2000.

City Clerk
City of Brown City
Sanilac County
Michigan

WHEREAS, Sanilac County has prepared an updated Solid Waste Management Plan in

	accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and	
WHEREAS,	The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee, and	
WHEREAS,	The Village of Deckerville (Township/Village/City) (Name of Local Unit)	
	(Township/Village/City) (Name of Local Unit)	
	has reviewed the updated Solid Waste Plan and its recommendations,	
NOW, THEREFORE, BE IT RESOLVED that the Council of this (Board/Council)		
	municipality hereby Approves (Approves/Disapproves)	
	the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended	
Resolution declared adopted at a regular meeting of the Council (Board/Council)		
	held on Sept. 18th 2000.	
In II	July (Date) Audrey Stolicker	
Donald N Chief Elected	101 000%	



GENERAL LAW VILLAGE RESOLUTION #2001-56 FOR ACTION ON THE SANILAC COUNTY SOLID WASTE MANAGEMENT PLAN UPDATE

WHEREAS, Sanilac County has prepared an updated Solid Waste Management Plan in

accordance with Part 115 of the Natural Resources and Environmental

Protection Act, 1994 PA 451, as amended; and

WHEREAS, The Sanilac County Board of Commissioners has approved the plan as prepared

and submitted by the County Solid Waste Management Planning Committee; and

WHEREAS, The Village of Lexington has reviewed the updated Solid Waste Plan and its

recommendations:

NOW, THEREFORE, BE IT RESOLVED that the Council of the Village of Lexington hereby

approves the Sanilac County Solid Waste Management Plan Update in

accordance with Act 451, as amended.

Moved by:

Falsone

Seconded by:

Stewart

Yeas:

All

Navs:

None

MOTION CARRIED

I hereby certify that the above is a true copy of the resolution passed at a regular meeting of the Lexington Village Council, County of Sanilac, Michigan on the 16th day of July, 2001.

Karolyn McEntee, Village Clerk



CITY OF MARLET Resolution, as approximately sanitac county, michigan at last nights Council RESOLUTION #009- muting. If you have resolution for action on the SA any questions, ful solid waste management plan tocal units of governi fuets Call.

[FRFAC -

WHEREAS.

Sanilac County has preparéd updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and

The Sanilac County Board Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and

WHEREAS.

The City of Marlette has reviewed the updated Solid Waste Plan and its recommendations;

NOW, THEREFORE, BE IT RESOLVED that the Council of this municipality hereby Approves the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended.

Resolution declared adopted at a regular meeting of the Council of the City of Marlette held on the 2nd day of October, 2000.

Kenneth L. Babich, Mayor

WHEREAS,	Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and
WHEREAS,	The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee, and
WHEREAS,	The Uslage of Melven (Name of Local Unit)
	has reviewed the updated Solid Waste Plan and its recommendations;
NOW, THEREFORE, BE IT RESOLVED that the Council of this (Board/Council)	
	municipality hereby <u>(Approves/Disapproves)</u>
•	the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended
Resolution dec	clared adopted at a regular meeting of the
of //U (Name of L	ocal Unit) held on ///alf /7, 2004.
John W	Selector Mary and Sugg
, Chief Elected	

WHEREAS,	Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and
WHEREAS,	prepared and submitted by the County Solid Waste Management Planning Committee, and
WHEREAS,	The Village of Minden City (Name of Local Unit)
	has reviewed the updated Solid Waste Plan and its recommendations,
NOW, THER	EFORE, BE IT RESOLVED that the Council of this (Board/Council)
	municipality hereby Approves/Disapproves) (Approves/Disapproves)
	the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended.
Resolution de	clared adopted at a regular meeting of the
of ///	clared adopted at a regular meeting of the Council (Board/Council) (Acouncil) (Date)
	T. Laufman Michael F. Mulletto
Chief Elected	Official Clerk

WHEREAS,	Sanifac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and
WHEREAS,	The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee, and
WHEREAS,	The Village of Peck of Village of Peck (Township/Village/City) (Name of Local Unit)
	has reviewed the updated Solid Waste Plan and its recommendations;
NOW, THER	EFORE, BE IT RESOLVED that the Council of this (Board/Council)
	municipality hereby Approves (Approves/Disapproves)
	the Sanilac County Solid Waste Management Plan Update in accordance with Act 451, as amended.
Resolution de	clared adopted at a regular meeting of the Council (Board/Council)
of Village	e of Peck <u>held on April 18</u> ,X2000. 2001
(Name of L	local Unit) (Date)
John	Cook Kara Conffit
Chief Elected	Official Clerk - Deputy
Pres	

WHEREAS,	Sanilac County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and
WHEREAS,	The Sanilac County Board of Commissioners has approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and
WHEREAS,	The City of Sandusky (Township/Village/City) (Name of Local Unit)
	has reviewed the updated Solid Waste Plan and its recommendations;
NOW, THERE	EFORE, BE IT RESOLVED that the Council of this (Board/Council)
	(Board/Council)
	municipality hereby Approves
	(Approves/Disapproves)
	the Sanilac County Solid Waste Management Plan Update in accordance
	with Act 451, as amended.
Resolution dec	clared adopted at a regular meeting of the Council
of City of	(Board/Council) Sandusky held on August 7, , 2000.
(Name of Le	
made make	Quebarathedge
Chief Elected (Official Clerk

TO Christian

APPENDIX D

Plan Implementation Strategy

The following discusses how the County intends to implement the plan and provides documentation of acceptance of responsibilities from all entities that will be performing a role in the Plan.

ACTION #1: Establish the Solid Waste Management Advisory Board (SWMAB) as the body responsible for overseeing and coordinating plan implementation.

Lead Responsibilities: County Board of Commissioners

Timeline: 2000; within 3 months after DEQ approval of plan update.

ACTION #2. Continue to develop and distribute materials recovery education materials.

Lead Responsibilities: MSU Extension, SWMAB

Timeline: Ongoing

ACTION #3: Continue to promote establishment of additional municipal composting operations

Lead Responsibilities: MSU Extension, SWMAB

Timeline: Ongoing

ACTION #4: Continue to promote recycling efforts on a countywide basis.

Lead Responsibilities: MSU Extension, SWMAB, MRF Director

Timeline: Ongoing

ACTION #5: Investigate ways to expand and promote opportunities for separation & collection of household hazardous wastes.

Lead Responsibilities: SWMAB, MSU Extension, private solid waste industry.

Timeline: Initiate investigations & discussions in early 2000.

ACTION #6: Continue to work with the Multi-County Task Force (Sanilac, Huron, Tuscola, and Lapeer Counties) on regional solid waste issues, especially resource recovery education activities.

Lead Responsibilities: SWMAB, MSU Extension.

Timeline: Ongoing.

ACTION #7: Review implementation progress and recommend adjustments as necessary.

Lead Responsibilities: SWMAB, County Board of Commissioners.

Timeline: Initiate 6 months after DEQ approval; at 6-month intervals thereafter.

Resolutions

The following are resolutions from County Board of Commissioners approving municipality's request to be included in an adjacent County's Plan.

None

Listed Capacity

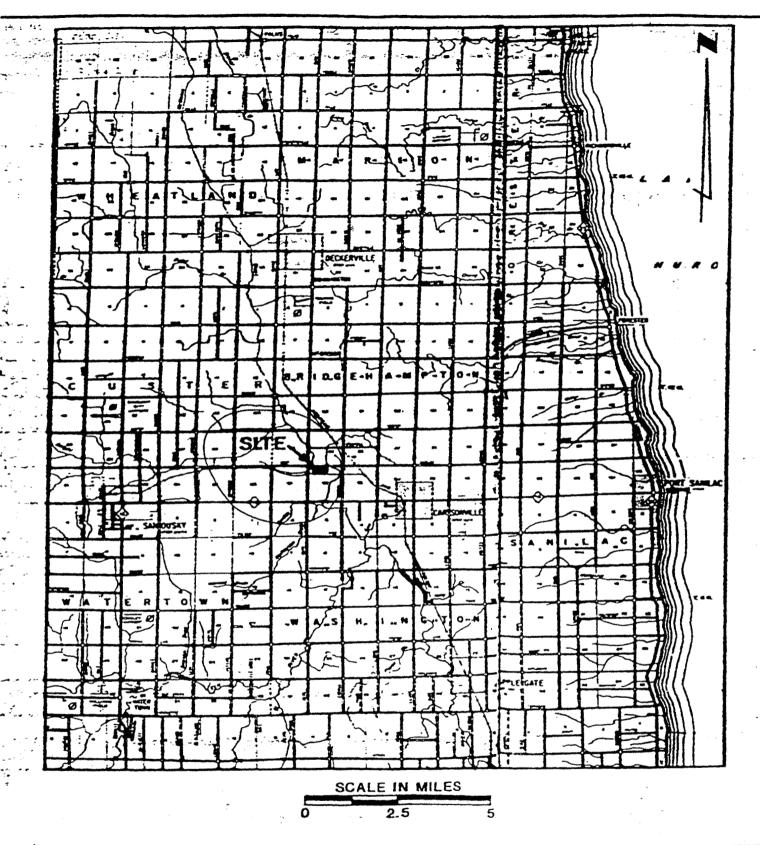
Documentation from landfills that the County has access to their listed capacity.

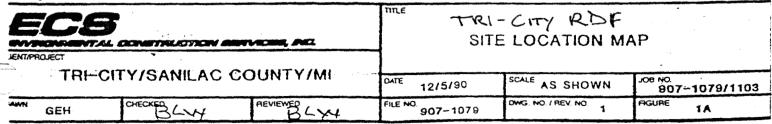
Letters from various landfill operators will be attached as they are received

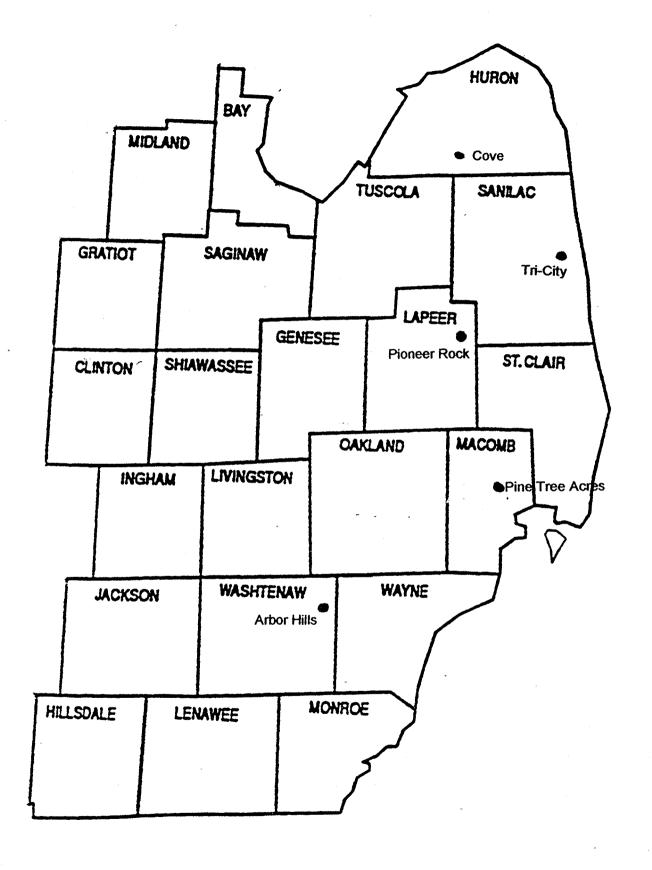
Maps

Maps showing locations of solid waste disposal facilities used by the County.

See the maps attached following this page.







Inter-County Agreements

Copies of Inter-County agreements with other Counties (if any).

To date, no inter-county agreements have been required by any importing counties.

Special Conditions

Special conditions affecting import or export of solid waste.

- 1. Under Sanilac County's Host Agreement, the maximum volume of solid waste that may be accepted at the Tri-City RDF from all sources is 1,092,000 gate cubic yards per year. This was determined based on a daily maximum of 3,500 gate cubic yards over a 312-day calendar year.
- 2 Macomb County's plan authorizes the acceptance of 80,000 cubic yards annually from Sanilac County for disposal at the Pine Tree Acres Landfill
- 3. Genesee County's plan authorizes the acceptance of 1,166 tons per day of solid waste from Sanilac County.
- 4. Lapeer County has been identified in Table 2-B for future acceptance of solid waste exports from Sanilac County. The acceptance of waste by Lapeer County is contingent on the availability of a licensed and operating disposal facility in that county. After the closure of the Pioneer Rock Landfill, there is no landfill presently available in Lapeer County.
- 5. This plan uses the terms "primary" and "contingency" disposal in reference to authorized waste imports and exports. "Primary" disposal is defined as disposal that may take place at an authorized disposal facility on a regular, ongoing basis. "Contingency" disposal means that an emergency situation exists that leaves no operating Type II landfills in the exporting county. This includes closure of landfills by MDEQ, closure due to natural disaster, or voluntary closure by the landfill operator. The exporting county must document to the receiving county that a contingency situation exists. The contingency disposal may continue for a maximum of six months, unless a time extension is agreed to by both the exporting and importing counties, subject to verification that the emergency situation still exists.