



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](http://www.deq.state.mi.us)

RUSSELL J. HARDING, Director

June 18, 2001

Mr. John Todd, Chairman  
Mecosta County Board of Commissioners  
400 Elm Street  
Big Rapids, Michigan 49307

Dear Mr. Todd:

In accordance with Section 11533(6) of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, the Department of Environmental Quality (DEQ) prepared the Mecosta County (County) Solid Waste Management Plan Update (Plan).

The Plan, as written by the DEQ, adequately meets the solid waste disposal needs of the County for the next five-year period. Further, by your letter dated April 10, 2001, the Mecosta County Board of Commissioners has been identified as the responsible entity to take legal action to guarantee compliance with the Plan, as required by Part 115. Therefore, the Plan is hereby approved and issued to the County.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Russell J. Harding".

Russell J. Harding  
Director  
517-373-7917

cc: Senator Joanne G. Emmons  
Representative Mike Pumford  
Mr. Arthur R. Nash Jr., Deputy Director, DEQ  
Mr. Timothy R. Sowton, Legislative Liaison, DEQ  
Mr. Jim Sygo, DEQ  
Ms. Joan Peck, DEQ  
Ms. Amy Lachance, DEQ – Grand Rapids  
Ms. Rhonda Oyer Zimmerman, DEQ  
Ms. Lynn Dumroese, DEQ  
Mecosta County File

**Michigan Department of Environmental Quality  
Waste Management Division**

**Public Responsiveness Summary for the Mecosta County Solid  
Waste Management Plan Update**

[Public comment period March 26, 2001 through April 24, 2001]

In June of 1997, the Department of Environmental Quality (DEQ) sent a Notice of Intent to Prepare a Solid Waste Management Plan Update (Notice of Intent) under Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), to all the counties in Michigan.

Mecosta County (County) declined to prepare a Solid Waste Management Plan Update (Plan). The municipalities of the County and the regional solid waste management planning agency, the West Michigan Regional Planning Commission, also declined to prepare a Plan for the County. As outlined in Section 11533(6) of the NREPA, the DEQ is required to prepare the Plan because the entities mentioned above declined to do so.

As part of the process of preparing the Plan for final approval, the DEQ made copies of the draft Plan available to the public, industry, and representatives of local government bodies in the County for review. A thirty-day period in which written, e-mailed, faxed, and/or telephoned comments on the Plan could be presented to the DEQ was instituted from March 26, 2001 through April 24, 2001. This included a public meeting held on Tuesday April 10, 2001, at 7:00 p.m., in the Mecosta County Court House, Meeting Rooms B and C, 400 Elm Street, Big Rapids, Michigan 49307. The public comment period and the public meeting were announced in the DEQ Calendar and the Big Rapids Pioneer. In addition, letters were sent to the County and municipal governments notifying them of the comment period and the public meeting.

This document summarizes the comments and questions submitted to the DEQ by citizens, representatives of local governments and industry living and/or working in the County concerning the Plan as well as the DEQ's response to these concerns.

The following people were present at the meeting:

Joan Peck, DEQ  
Lynn Dumroese, DEQ  
Christina Miller, DEQ

Jerrilynn Strong, Mecosta County Commissioner-District 2  
Bud Strong, Citizen  
Randy Maxwell, Mecosta County Commissioner  
Sandy Maxwell, Colfax Township Clerk  
John Todd, Chairman of the Mecosta County Board of Commissioners  
Paul Bullock, Mecosta County Controller/Administrator  
Gerald Lintemuth, Township Trustee

Comment: The major concern voiced by those making comments revolved around the Planning process. Concerns were expressed that the County spent a great deal of money preparing the 1990 Plan and 67 percent of the local municipality approvals could not be obtained. The DEQ then became responsible for preparing the Plan and as part of the DEQ's preparation, local approval was not required.

DEQ Response: Section 11536(6) of Part 115 states if not less than 67 percent of the municipalities have not approved the Plan, the DEQ shall prepare a Plan for the County. A Plan prepared by the DEQ shall be final.

Comment: A written comment was received from Colfax Township addressing concerns about the status of the landfill located in Colfax Township.

DEQ Response: The landfill located in Colfax Township is monitored by the Environmental Response Division. The questions were forwarded to the District Supervisor of the Environmental Response Division in the Grand Rapids District Office.

Comment: A question was raised about how to encourage recycling within the local community.

DEQ Response: The Waste Management Division has hired a new staff person to address local concerns regarding recycling and composting questions. The recycling and composting coordinator's contact information was given so further follow up on this issue can be addressed.

# Mecosta County Solid Waste Management Plan



Prepared by  
Michigan Department of Environmental Quality  
Waste Management Division

**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.

DATE SUBMITTED TO THE DEQ:

DESIGNATED PLANNING AGENCY PREPARING THIS PLAN UPDATE:

Michigan Department of Environmental Quality

CONTACT PERSON: Lynn Dumroese

ADDRESS:

Department of Environmental Quality

Waste Management Division

P.O. Box 30241, Lansing, MI 48909-7741

PHONE:

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DumroesL@state.mi.us

CENTRAL REPOSITORY LOCATION(S):

Michigan Department of Environmental Quality  
Waste Management Division  
608 W. Allegan Street  
Lansing, Michigan 48909

Mecosta County Courthouse  
County Clerks Office  
400 Elm Street  
Big Rapids, Michigan 49307

City of Big Rapids  
226 North Michigan Avenue  
Big Rapids, Michigan 49307

Morton Township Hall  
290 West Main  
Mecosta, Michigan 49332

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## EXECUTIVE SUMMARY

The following summarizes the solid waste management system selected to manage solid waste within the Mecosta County (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.

It is the intention of this Plan to provide the County with the mechanism to dispose of its solid waste within the rules and regulations outlined in Part 115 the and Part 115 Administrative Rules of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).

## OVERALL VIEW OF THE COUNTY

The County contains 560 square miles and is the 55<sup>th</sup> largest county in the state. The Manistee National Forest covers a large part of the County and, along with Pere Marquette State Forest, offers numerous outdoor recreation activities. Today, the County has grown to a population of 38,000 people. Approximately 30 percent of the population is located in Big Rapids, the largest city and largest employer in the County. The overall population of the County has grown slowly from 37,308 people in 1990 to 38,704 people in 1996, an increase of only 5.2 percent in six years. This trend will most likely continue in the foreseeable future.

Township or Municipality Name	Population	Land Use		Economic Base*			
		Rural	Urban	Ag	Ind	Com	Other
City of Big Rapids	10,471	0%	100%	2%	15%	79%	4%
Morley Village	592	100%	0%	2%	43%	55%	0%
Balance of Aetna Twp.	1,472	100%	0%	5%	48%	46%	1%
Austin	1,253	100%	0%	11%	37%	51%	1%
Big Rapids	3,529	100%	0%	2%	19%	78%	1%
Chippewa	1,177	100%	0%	11%	40%	48%	1%
Colfax	2,180	100%	0%	4%	23%	72%	1%
Balance of Deerfield Twp.	1,174	100%	0%	11%	41%	48%	0%
Barryton Village	432	100%	0%	0%	27%	71%	2%
Balance of Fork Twp.	1,141	100%	0%	8%	33%	57%	2%
Grant	733	100%	0%	10%	27%	62%	1%
Green	3,226	100%	0%	2%	31%	66%	1%
Hinton	1,035	100%	0%	10%	47%	43%	0%
Martiny	1,535	100%	0%	4%	41%	52%	3%
Stanwood Village	195	100%	0%	0%	36%	64%	0%
Balance of Mecosta Twp.	2,037	100%	0%	5%	33%	62%	0%
Millbrook	1,150	100%	0%	7%	39%	52%	2%
Mecosta Village	449	100%	0%	1%	41%	52%	6%

Balance of Morton Twp.	2,208	100%	0%	4%	28%	66%	2%
Sheridan	1,161	100%	0%	4%	45%	50%	1%
Wheatland	1,554	100%	0%	7%	38%	54%	1%
<b>Total Population</b>	<b>38,704**</b>	<b>66.2%</b>	<b>33.8%***</b>	<b>4%</b>	<b>27%</b>	<b>67%</b>	<b>2%</b>

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

\*\*Total Population (1996 estimate) from US Census Bureau Population Projections prepared by the West Michigan Regional Planning Commission

\*\*\*Urban/Rural data and % of Economic Base data taken from 1990 census information

## CONCLUSIONS

The Plan was written by the Department of Environmental Quality under Section 11533(6) of Part 115 of the NREPA.

The current solid waste management system includes private waste haulers collecting and transporting the solid waste generated in the County to landfills in neighboring counties. Some of the private haulers also provide curbside collection of recyclables, in addition to having a drop off location in Big Rapids known as Recycle! Mecosta. Curbside collection of compost materials is also offered in the city of Big Rapids during early spring through late fall; however, the majority of the residents in the County are responsible for their own composting. The combination of these programs seems to be functioning well and provides an effective means for managing the solid waste that is generated in the County.

In order to decrease the County's dependency on landfills, the County will continue to encourage recycling, composting and resource conservation efforts through education, participation in recycling programs, and/or the establishment of additional local programs.

## SELECTED ALTERNATIVES

Alternative 1: This alternative maintains the current solid waste management system. This system relies on out-of-county waste disposal, solid waste collection through private or municipal agreements, and volunteer recycling and composting programs.

Alternative 2: This alternative involves establishing a County-owned landfill. Collection of solid waste would continue to be provided by private haulers and emphasis would be placed on reducing the amount of waste needing to be landfilled.

# 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 Plan works toward the following goals through actions designed to meet the objectives described under the respective goals, which they support:

Goal 1: Establish and maintain a solid waste management system which provides for the protection of public health and the environment.

Objective 1a: Encourage reduced reliance on sanitary landfills as a means for waste disposal.

Objective 1b: Encourage source reduction methods.

Objective 1c: Encourage composting practices.

Goal 2: Promote involvement by the public for better solid waste management.

Objective 2a: Notify citizens about opportunities for solid waste management such as recycling, household hazardous waste collections, and special concerns through radio, television, flyers, and newspaper announcements.

Objective 2b: Support educational programs by providing information regarding solid waste management to children in K-12 grades.

Goal 3: Reduce the volume of waste being disposed of in landfills by promoting increased recycling.

Objective 3a: Encourage participation in existing recycling programs.

Objective 3b: Encourage expansion of existing programs in order to provide more source reduction, source separation, and recycling opportunities.

## DATA BASE

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

The quantities of solid waste generated were calculated by using the following table of generation rates.

**TABLE I: GENERATION RATES USED FOR CALCULATIONS**

Waste Type	Generation Rates (pounds/person/day)
Municipal Solid Waste <sup>1</sup>	3.72
Industrial Solid Waste <sup>2</sup>	1.9
Municipal Sludge <sup>3</sup>	.16
Construction Demolition <sup>4</sup>	.6
<b>Total</b>	<b>6.38</b>

The following table estimates the quantity of solid waste generated in Mecosta County.

**TABLE II: ESTIMATED SOLID WASTE GENERATION**

Waste Type	Current Annual Volume Tons	Five-Year Annual Volume Tons	Ten-Year Annual Volume Tons
Municipal Solid Waste	26,276	26,070	27,156
Industrial Solid Waste	13,421	13,315	13,870
Municipal Sludge	1,130	1,121	1,168
Construction/Demolition	4,309	4,309	4,453
<b>Total</b>	<b>45,701</b>	<b>45,375</b>	<b>47,231</b>

**TOTAL QUANTITY OF SOLID WASTE GENERATED:**

45,701  Tons or  Cubic Yards in 365 (days)

**TOTAL QUANTITY OF SOLID WASTE NEEDING DISPOSAL:**

43,370  Tons or  Cubic Yards in 365 (days)

1-Source: Characterization of MSW in the US: 1996 Update, US EPA. Washington, D.C. Deducts 14.3 percent for yard waste from 1995 waste generation rate of 4.34 pounds/day per person.

2-Generation rates are based on Solid Waste Association of North America (SWANA) assumption of 1.9 pounds per person per day.

3-Assumes 0.16 lbs./day for persons in households serviced by municipal sewer systems (Recommended Standards for Wastewater Facilities, 1990), Great Lakes-Upper Mississippi River Board of State Public Health and Environmental Managers.

4-Generation rates are based on SWANA assumption of 0.6 lbs./person per day.

## **DATA BASE**

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

The following are solid waste disposal areas the County will use to meet its disposal needs for the planning period.

### Landfills:

Northern Oaks Recycling and Disposal Facility (Clare County)  
Pitsch Sanitary Landfill (Ionia County)  
Central Sanitary Landfill (Montcalm County)  
Ottawa County Farms Landfill (Ottawa County)  
Autumn Hills Recycling & Disposal Facility (Ottawa County)  
South Kent County Landfill (Kent County)  
Venice Park Recycling & Disposal Facility (Shiawassee County)  
Osceola County Waste Systems, Inc. (Osceola County-currently closed)

### Transfer Stations:

North Kent County Transfer Station (Kent County)  
Kent County Waste To Energy Facility Transfer Station (Kent County)

### Waste To Energy Facilities:

Kent County Waste To Energy Facility (Kent County)

**DATA BASE**

FACILITY DESCRIPTIONS

Facility Type: Landfill Type II

Facility Name: Pitsch Sanitary Landfill

County: Ionis Location: Town: 8N Range: 7W Section(s): N 1/2 of the NE 1/4 of 7

Map identifying location included in Attachment Section:  Yes  No

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

Public  Private Owner: Pitsch Companies

Operating Status (check)

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

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

\* Explanation of special wastes, including a specific list and/or conditions:  
street sweepings and asbestos

**Site Size:**

**Proposed Expansion\* 1998**

Total area of facility property:	<u>143.5</u>	acres	
Total area sited for use:	<u>28.36</u>	acres	<u>41.28</u> acres
Total area permitted:	<u>78.44</u>	acres	
Operating:	<u>9.87</u>	acres	
Not excavated:	<u>70</u>	acres	
Current capacity:	<u>415,000</u>	<input checked="" type="checkbox"/> tons or <input type="checkbox"/> yds <sup>3</sup>	<u>4,500,000</u> cyds
Estimated lifetime:	<u>5</u>	years	<u>22</u> years
Estimated days open per year:	<u>307</u>	days	* Year of planned
Estimated yearly disposal volume:	<u>83,000</u>	<input checked="" type="checkbox"/> tons or <input type="checkbox"/> yds <sup>3</sup>	expansion

(if applicable)

Annual energy production:  
 Landfill gas recovery projects: \_\_\_\_\_ megawatts  
 Waste-to-energy incinerators: \_\_\_\_\_ megawatts

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Osceola County Waste Systems, Inc.

County: Osceola Location: Town: 17N Range: 10W Section(s): 30

Map identifying location included in Attachment Section:  Yes  No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: N/A

Public  Private Owner: Osceola County Waste Systems, Inc.

Operating Status (check)

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

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

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

\*\*This landfill has been closed since September 2, 1994, due to non-compliance.

Site Size:

Total area of facility property:	<u>80</u>	acres
Total area sited for use:	<u>80</u>	acres
Total area permitted:	<u>40</u>	acres
Operating:	<u>0</u>	acres
Not excavated:	<u>20</u>	acres

Current capacity:	<u>1,500,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds <sup>3</sup>
Estimated lifetime:	<u>15</u>	years
Estimated days open per year:	<u>**</u>	days
Estimated yearly disposal volume:	<u>--</u>	<input type="checkbox"/> tons or <input type="checkbox"/> yds <sup>3</sup>

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Ottawa County Farms Landfill

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

Map identifying location included in Attachment Section:  Yes  No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: N/A

Public  Private Owner: Allied Waste Systems

Operating Status (check)

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

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

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

Site Size:

Total area of facility property:	<u>240</u>	acres
Total area sited for use:	<u>197</u>	acres
Total area permitted:	<u>197</u>	acres
Operating:	<u>37</u>	acres
Not excavated:	<u>125</u>	acres
Current capacity:	<u>16,500,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds <sup>3</sup>
Estimated lifetime:	<u>25-30</u>	years
Estimated days open per year:	<u>286</u>	days
Estimated yearly disposal volume:	<u>500,000</u>	<input checked="" type="checkbox"/> tons or <input type="checkbox"/> yds <sup>3</sup>

(if applicable)

Annual energy production:		
Landfill gas recovery projects:	<u>4,565</u>	megawatts
Waste-to-energy incinerators:	<u>          </u>	megawatts

**FACILITY DESCRIPTIONS**

Facility Type: Type II Landfill

Facility Name: South Kent County Landfill

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

Map identifying location included in Attachment Section:  Yes  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: Kent County

**Operating Status (check)**

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

**Waste Types Received (check all that apply)**

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

\* Explanation of special wastes, including a specific list and/or conditions:  
 Foundry sands, street sweepings, sludges, contaminated soils, etc.

**Site Size:**

Total area of facility property:	<u>250</u>	acres	
Total area sited for use:	<u>112</u>	acres	
Total area permitted:	<u>112</u>	acres	
Operating:	<u>31</u>	acres	
Not excavated:	<u>81</u>	acres	
Current capacity:	<u>7,600,000</u>	<input checked="" type="checkbox"/> tons or <input type="checkbox"/> yds <sup>3</sup>	1.5 million tons ash
Estimated lifetime:	<u>38</u>	years	
Estimated days open per year:	<u>310</u>	days	
Estimated yearly disposal volume:	<u>155,000</u>	<input checked="" type="checkbox"/> tons or <input type="checkbox"/> yds <sup>3</sup>	

(if applicable)

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

**FACILITY DESCRIPTIONS**

Facility Type: Type II Landfill

Facility Name: Autumn Hills Recycling and Disposal Facility

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

Map identifying location included in Attachment Section:  Yes  No

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

Public  Private Owner: Waste Management of Michigan, Inc.

**Operating Status (check)**

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

**Waste Types Received (check all that apply)**

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other: solidification/yard waste

\* Explanation of special wastes, including a specific list and/or conditions:  
 Foundary sands, sludges, fly ash, etc.

**Site Size:**

Total area of facility property:	<u>314</u>	acres
Total area sited for use:	<u>197</u>	acres
Total area permitted:	<u>99.3</u>	acres
Operating:	<u>35.1</u>	acres
Not excavated:	<u>64.2</u>	acres
Current capacity:	<u>20.75 mil</u>	<input checked="" type="checkbox"/> tons or <input type="checkbox"/> yds <sup>3</sup>
Estimated lifetime:	<u>30.2</u>	years
Estimated days open per year:	<u>286</u>	days
Estimated yearly disposal volume:	<u>500,000</u>	<input checked="" type="checkbox"/> tons or <input type="checkbox"/> yds <sup>3</sup>

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Central Sanitary Landfill

County: Montcalm Location: Town: 11 Range: 10 Section(s): 21

Map identifying location included in Attachment Section:  Yes  No

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

Public  Private Owner: Allied Waste

Operating Status (check)

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

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

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

Site Size:

Total area of facility property:	<u>315</u>	acres
Total area sited for use:	<u>40.32</u>	acres
Total area permitted:	<u>18.45</u>	acres
Operating:	<u>5.76</u>	acres
Current capacity:	<u>373,428</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds <sup>3</sup>
Estimated lifetime:	<u>2</u>	years
Estimated days open per year:	<u>306</u>	days
Estimated yearly disposal volume:	<u>100,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds <sup>3</sup>

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Waste To Energy

Facility Name: Kent County Waste-To-Energy Facility

County: Kent Location: Town:    Range:    Section(s): City of Grand Rapids

Map identifying location included in Attachment Section:  Yes  No

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

Public  Private Owner: Kent County

Operating Status (check)

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

Waste Types Received-(check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

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

Site Size:

Total area of facility property:        acres  
 Total area sited for use:        acres  
 Total area permitted:        acres  
 Operating:        acres  
 Not excavated:        acres

Current capacity: 625/day  tons or  yds<sup>3</sup>  
 Estimated lifetime:        years  
 Estimated days open per year: 310 days  
 Estimated yearly disposal volume: 194,000  tons or  yds<sup>3</sup>

(if applicable)

Annual energy production:  
 Landfill gas recovery projects: N/A megawatts  
 Waste-to-energy incinerators: 72/day megawatts 116,000 lb. of steam/hr

**FACILITY DESCRIPTIONS**

Facility Type: Type A Transfer Station

Facility Name: Kent County Waste-To-Energy Facility Transfer Station

County: Kent Location: Town: \_\_ Range: \_\_ Section(s): City of Grand Rapids

Map identifying location included in Attachment Section:  Yes  No

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

Public  Private Owner: Kent County

**Operating Status (check)**

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

**Waste Types Received (check all that apply)**

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

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

**Site Size:**

Total area of facility property: \_\_\_\_\_ acres  
 Total area sited for use: \_\_\_\_\_ acres  
 Total area permitted: \_\_\_\_\_ acres  
   Operating: \_\_\_\_\_ acres  
   Not excavated: \_\_\_\_\_ acres  
 Current capacity: \_\_\_\_\_  tons or  yds<sup>3</sup>  
 Estimated lifetime: \_\_\_\_\_ years  
 Estimated days open per year: 310 days  
 Estimated yearly disposal volume: 80,000  tons or  yds<sup>3</sup>

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: North Kent County Transfer Station

County: Kent Location: Town: 8N Range: 1W Section(s): 2,3

Map identifying location included in Attachment Section:  Yes  No

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

Public  Private Owner: Kent County

Operating Status (check)

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

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

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

Site Size:

Total area of facility property: \_\_\_\_\_ acres  
Total area sited for use: \_\_\_\_\_ acres  
Total area permitted: \_\_\_\_\_ acres  
Operating: \_\_\_\_\_ acres  
Not excavated: \_\_\_\_\_ acres

Current capacity: \_\_\_\_\_  tons or  yds<sup>3</sup>  
Estimated lifetime: \_\_\_\_\_ years  
Estimated days open per year: 310 days  
Estimated yearly disposal volume: 22,000  tons or  yds<sup>3</sup>

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Venice Park Recycling and Disposal Facility

County: Shiawassee Location: Town: 7N Range: 4E Section(s): 27

Map identifying location included in Attachment Section:  Yes  No

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

Public  Private Owner: Waste Management of Michigan, Inc.

Operating Status (check)

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

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other: Non-hazardous liquids for solidification

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

Contaminated soils, sludges, filter cake, process wastes, coal ash, foundry sand, chemical containing equipment, used containers, treated medical waste, contaminated demolition debris, street sweeping, sediment trap materials, and asbestos.

Site Size:

Total area of facility property:	<u>331</u>	acres
Total area sited for use:	<u>80</u>	acres
Total area permitted:	<u>69</u>	acres
Operating:	<u>41</u>	acres
Not excavated:	<u>2.5</u>	acres
Current capacity:	<u>1,300,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds <sup>3</sup>
Estimated lifetime:	<u>2.5</u>	years
Estimated days open per year:	<u>286</u>	days
Estimated yearly disposal volume:	<u>526,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds <sup>3</sup>

(if applicable)

Annual energy production:		
Landfill gas recovery projects:	<u>12,500</u>	megawatts
Waste-to-energy incinerators:	<u>N/A</u>	megawatts

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Northern Oaks Recycling & Disposal Facility

County: Clare Location: Town: 19N Range: 4W Section(s): 32

Map identifying location included in Attachment Section:  Yes  No

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

Public  Private Owner: Waste Management of Michigan, Inc.

Operating Status (check)

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

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

Explanation of special wastes, including a specific list and/or conditions:  
WWTP filter cake, sludge.

Site Size:

Total area of facility property: 160 acres  
Total area sited for use: 76 acres  
Total area permitted: 76 acres  
Operating: 19 acres  
Not excavated: 57 acres

Current capacity: 8,755,100  tons or  yds<sup>3</sup>  
Estimated lifetime: 43 years  
Estimated days open per year: 260 days  
Estimated yearly disposal volume: 409,000  tons or  yds<sup>3</sup>

(if applicable)

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

**DATA BASE**

**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.

**TABLE III: SOLID WASTE HAULERS AND TRANSPORTATION INFRASTRUCTURE**

<b><u>Service Provider</u></b>	<b><u>Public/Private</u></b>	<b><u>Service Area</u></b>	<b><u>Final Disposal Facility</u></b>
<b>Waste Management, Inc.</b>	Private	Ferris State and other areas in Mecosta County	Northern Oaks
<b>Dent Disposal</b>	Private	Mecosta County	Central and Pitsch
<b>Meceola Waste Systems (Back Forty)</b>	Private	Mecosta County	Central and Northern Oaks
<b>Sunset Waste Services</b>	Private	Big Rapids and other areas in Mecosta County	Central
<b>Sam's Disposal</b>	Private	Mecosta County	Central

Solid waste is gathered and transported by the above solid waste haulers to the final disposal facilities.

## **DATA BASE**

### **EVALUATION OF DEFICIENCIES AND PROBLEMS**

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

Currently, the County has sufficient disposal capacity available from neighboring counties; however, this requires waste haulers to travel out of the County for final waste disposal and consequently affects the total cost of waste transportation.

Recycling is hindered by the cost of transporting the materials to distant markets, improper separation of the recycled items, the volunteer nature of the program, and the lack of participation.

Limited composting programs have been established in the County.

Limited household hazardous waste collection has been established in the County.

## DATA BASE

### DEMOGRAPHICS

The following presents the current and projected population densities and centers for five and ten-year periods and 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 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.

Population growth in the County has been modest, but steady. Nevertheless, the great influx of people into neighboring communities suggests that the County could soon experience a greater increase in population.

The largest city in the area is Big Rapids, with a population of approximately 12,000 full-time residents. Big Rapids is the home of Ferris State University, which has an enrollment of approximately 10,000 on-campus students. Much of the commercial and industrial development is located around this city; therefore, the majority of the County's solid waste is generated in Big Rapids and the surrounding area.

The following table includes the estimated changes in population for the various municipalities over the next five and ten-year periods and the estimated amounts of waste generated in each municipality. The estimated waste generation amounts were calculated by multiplying the generation rates from Table I and the corresponding population estimates. Calculations were based on 365 days per year; however, these figures do not take into consideration any other factors affecting solid waste fluctuations including seasonal population influxes.

**TABLE IV: ESTIMATED POPULATIONS\* AND SOLID WASTE GENERATED**

Municipality	2000 Population	2000 Waste Generation (tons/yr)	2005 Population	2005 Waste Generation (tons/yr)	2010 Population	2010 Waste Generation (tons/yr)
City of Big Rapids	10,182	11,855	9,831	11,447	9,479	11,037
Morley Village	615	716	646	752	677	788
Balance of Aetna Twp.	1,658	1,930	1,920	2,236	2,182	2,541
Austin	1,457	1,696	1,754	2,042	2,050	2,387
Big Rapids	3,976	4,629	4,606	5,363	5,235	6,095
Chippewa	1,267	1,475	1,388	1,616	1,509	1,757
Colfax	2,393	2,786	2,686	3,127	2,979	3,469
Balance of Deerfield Twp	1,297	1,510	1,467	1,708	1,636	1,905
Barryton Village	446	519	464	540	482	561

Balance of Fork Twp.	1,231	1,433	1,352	1,574	1,472	1,714
Grant	790	920	867	1,009	943	1,098
Green	3,571	4,158	4,048	4,713	4,524	5,268
Hinton	1,092	1,271	1,167	1,359	1,241	1,445
Martiny	1,729	2,013	2,002	2,331	2,274	2,648
Stanwood Village	192	224	188	219	184	214
Balance of Mecosta Twp.	2,225	2,591	2,482	2,890	2,738	3,188
Millbrook	1,218	1,418	1,309	1,524	1,399	1,629
Mecosta Village	463	539	482	561	500	582
Balance of Morton Twp.	2,795	3,254	3,723	4,335	4,651	5,415
Sheridan	1,297	1,510	1,487	1,731	1,677	1,953
Wheatland	1,629	1,897	1,728	2,012	1,826	2,126
<b>Total</b>	<b>41,523</b>	<b>48,347</b>	<b>45,597</b>	<b>53,091</b>	<b>49,657</b>	<b>57,819</b>

\*Population estimates based on 1970-1990 Population figures and 1996 Population estimates from US Census Bureau Population Projections and Population Projections prepared by the West Michigan Regional Planning Commission through 2020.

## **DATA BASE**

### **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.

Recent data was not available for land use in the County; therefore, 1983 data from the Michigan Resource Inventory System was used. (See the Mecosta County Land Use Map in the Attachments section). This map indicates the County is primarily rural in nature, containing mostly agricultural and forestland. Land use has changed since the 1983 data was collected, however, land use trends in the County suggest residential development will occur along lakes, rivers, and adjacent to major roads. Further, commercial and industrial development will be tied to major roads and population centers. As outlined on the map, the County contains many areas located by inland lakes and streams, which should become the fastest growing residential areas in the County. In addition, most of the commercial and industrial development should occur in the metropolitan area of Big Rapids because much of the County's population is located around this area.

## DATA BASE

### SOLID WASTE MANAGEMENT ALTERNATIVES

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

The following criteria were considered for each solid waste management alternative:

- Technical Feasibility
- Economic Feasibility
- Access to Land
- Access to Transportation
- Collection Processes
- Effects on Energy
- Environmental Impacts
- Public Acceptability
- Waste Volume Reduction
- Pollution Prevention
- Resource Conservation
- Resource Recovery
- Ultimate Disposal Area Uses
- Institutional Arrangements

**Alternative 1:** This alternative maintains the current management system in which solid waste will continue to be exported out of the County. Collection of solid waste will continue through private agreements between local haulers and individual homeowners, businesses, industries, or municipalities. Emphasis would be placed on reducing the amount of waste needing to be landfilled and increasing recycling and composting.

**Technical Feasibility:** Solid waste from the County will continue to be transported and disposed of in sanitary landfills. The technology for this system has existed for many years and will continue to be the primary disposal method for the five and ten-year planning period.

**Economic Feasibility:** Sanitary landfills are presently the most cost-effective way to dispose of solid waste. As markets for recycled materials develop and stabilize, alternatives for waste disposal should expand, but landfilling seems to be the most economically feasible method available for the planning period.

This system is essentially the same solid waste management system currently in place; therefore, the existing financial commitments for public and private entities will not change drastically.

**Access to Land:** Neighboring counties with existing landfills have sufficient capacity to satisfy the County's disposal needs through the five and ten-year planning period. Waste will primarily be exported to the Northern Oaks Landfill in Clare County, Central Sanitary Landfill in Montcalm County, and Pitsch Sanitary Landfill in Ionia County.

**Access to Transportation:** The County has state highways and county primary roads to facilitate the collection and hauling of solid waste to out of the County landfills. (See the Mecosta County road maps in the Attachments section.)

Collection Processes: Currently, private haulers provide collection service to the residents of the County. There are no disposal facilities located in the County; therefore, the haulers travel out of the County to dispose of waste. The city of Big Rapids contracts with one private hauler, Sunset Waste Services; however, a countywide collection system has not been established, which means there is an overlapping of service areas throughout the County.

Effects on Energy: As the population of the County increases, the use of energy is expected to increase. More energy will be required to collect, transport, compact, and dispose of the increased amount of solid waste being generated. No energy is expected to be produced through this alternative because all waste will be transported out of the County. As alternative disposal methods are developed and implemented, energy consumption may decrease; however, it will be difficult to measure.

Environmental Impacts: This alternative encourages recycling, composting, and resource conservation efforts. These efforts would benefit the environment by decreasing the amount of waste needing to be disposed of in landfills.

Public Acceptability: Public support for a solid waste management system rests on low cost, minimal effort, and familiarity with the process. Alternative 1 does not require drastic change on the effort of the public and is a system that is familiar to the community. Although recycling opportunities are available on a voluntary basis, greater emphasis needs to be placed on the benefits of reducing waste in order to motivate people to participate.

Waste Volume Reduction: Waste reduction is achieved in two ways: reducing the amount of waste being generated through recycling and resource recovery, and reducing the volume through compaction, shredding, baling, or incineration.

The County supports a volunteer recycling program known as Recycle! Mecosta, which is located in Big Rapids. This facility provides a drop off location for the public and provides pick up service to larger companies and organizations in the Big Rapids area. In addition, curbside recycling is offered by some of the private haulers in the County. Efforts to recycle are encouraged; however, it is still the public's responsibility to reduce the amount of waste being generated by purchasing recycled products and items with the least amount of packaging.

Because there are no disposal facilities in the County, the only volume reduction technique that is practiced is compaction during collection by the waste haulers.

Pollution Prevention: Waste haulers and disposal areas are mandated by state and federal regulations to institute pollution prevention measures and to take remedial action when pollution has occurred. Pollution from disposal areas is currently not an issue in the County because there are no facilities in the County. In general, the public making an effort to properly dispose of their waste can prevent a majority of the litter pollution caused by solid waste.

Resource Conservation: The DEQ is unaware of any programs currently in place or proposed by the County; however, the Plan does encourage future development of local resource conservation programs.

Resource Recovery: The County allocates \$15,000 per year to Recycle! Mecosta, a voluntary recycling drop-off location. Some private haulers also provide curbside recycling; however, recycling is voluntary and 100 percent participation is difficult to achieve.

Ultimate Disposal Area Uses: Ultimate uses of disposal areas will be the responsibility of the owner/operator of the facilities.

Effects on Public Health: This alternative consists of collection, transportation, and disposal of solid waste, which prevents the accumulation of solid waste and results in the elimination of risk to public health.

Institutional Arrangements: Solid waste will continue to be exported out of the County and the collection of solid waste will continue through private agreements between private haulers and individual homeowners, businesses, industries, or municipalities. In addition, the Recycle! Mecosta facility will continue to be used as a drop off location for residents to voluntarily bring their recyclables.

Alternative 2: This alternative involves siting a County owned landfill. Collection of solid waste would continue to be provided by private haulers and emphasis would be placed on reducing the amount of waste needing to be landfilled.

Technical Feasibility: Solid waste will continue to be disposed of in a sanitary landfill. This technology has occurred for many years and will continue to be the primary disposal method utilized by the County.

Economic Feasibility: Establishing a County-owned landfill would require a long-term financial commitment from the County. In addition, there are currently no disposal facilities located in the County; therefore, considerably large expenses would be initially incurred to site and begin operating a landfill.

Access to Land: The County contains many areas, which are suitable for siting a landfill. This alternative would also ensure the County has available capacity to satisfy their disposal needs for more than just the required time frame of the planning period. (See the Land Use Map for the County in the Attachments section.)

Access to Transportation: The County has enough state highways and county primary roads to facilitate the collection and hauling of solid waste in the County. (See the Mecosta County road maps in the Attachments section.)

Collection Processes: Private haulers would continue to provide collection service to the residents of the County; however, the haulers would not have to travel out of the County for final disposal of waste. This alternative does not include a mechanism for resolving the overlapping of service areas because the County does not have sufficient funds to cover the costs associated with establishing a countywide collection system.

Effects on Energy: As the population of the County increases, the use of energy is expected to increase. More energy will be required to collect, transport, compact, and dispose of the increased amount of solid waste being generated. Because compaction and disposal of waste would be performed within the County, more energy would be used under this alternative than what is expected to be used under the current system. As alternative disposal methods are developed and implemented, energy consumption may decrease; however, it is difficult to measure. There is a possibility that energy can be produced from the facility; however, knowing if income would cover costs of energy recovery, is difficult to estimate prior to constructing a facility.

Environmental Impacts: This alternative encourages recycling, composting, and resource conservation efforts. Expansion of the current programs may more easily be implemented

because the proposed landfill could provide an on site location for recycling and composting. Reducing and separating materials from the waste stream would benefit the environment by decreasing the amount of waste needing to be disposed of in landfills.

Public Acceptability: Siting a landfill is politically controversial and would require a significant change to the waste management system that is familiar to the community. Because neighboring counties have enough capacity available to the County for the planning period, consideration of a landfill is not needed and would not be supported.

Waste Volume Reduction: Waste reduction is achieved in two ways: (1) reducing the amount of waste being generated through recycling and resource recovery, and (2) reducing the volume through compaction, shredding, baling, or incineration.

The County would continue to support the Recycle! Mecosta facility and could feasibly operate another recycling facility on site at the proposed County owned landfill. However, it is still the public's responsibility to reduce the amount of waste being generated by purchasing recycled products and items with the least amount of packaging.

A County-operated disposal facility would result in the County being responsible for volume reduction techniques that occur at a landfill site. This would result in significant costs for the initial purchase of the machinery and on-going maintenance.

Pollution Prevention: A landfill would increase the chance of pollution occurring around the site. However, a properly constructed and maintained landfill should have minimal effect on the environment. The public making an effort to properly dispose of their waste can prevent a majority of the litter pollution.

Resource Conservation: The County does not intend to institute any resource conservation programs; however, the Plan does encourage future development of these programs.

Resource Recovery: The County would continue to allocate money to Recycle! Mecosta. However, if the County operated a landfill, establishing another drop-off location at the site would be feasible to implement. Local haulers, who currently offer curbside recycling, would continue to provide this service in hopes to achieve 100 percent participation.

Ultimate Disposal Area Uses: The County would own the landfill; therefore, the ultimate use of the disposal facility would be the responsibility of the County.

Effects on Public Health: This alternative consists of collection, transportation, and disposal of solid waste, which prevents the accumulation of solid waste and results in the elimination of risk to public health.

Institutional Arrangements: Solid waste would be disposed of in a County owned and operated landfill. Collection of solid waste will continue through private agreements between local haulers and individual homeowners, businesses, industries, or municipalities. In addition, the County would continue to allocate money to the Recycle! Mecosta facility and waste haulers, who provide curbside recycling, would continue to provide this service.

**TABLE V: RANKING OF ALTERNATIVES**

The following chart shows an informational ranking of the alternatives and indicates Alternative 1 best meets the needs of the County. (1-very low and 5-very high)

<b>Criteria</b>	<b>Alternative 1</b>	<b>Alternative 2</b>
Technical Feasibility	5	5
Economic Feasibility	4	1
Access to Land	4	3
Access to Transportation	4	4
Collection Processes	4	4
Effects on Energy	4	3
Environmental Impacts	4	3
Public Acceptability	4	1
Waste Volume Reduction	4	4
Pollution Prevention	4	3
Resource Conservation	3	3
Resource Recovery	3	4
Ultimate Disposal Area Uses	4	2
Effects on Public Health	4	4
Institutional Arrangements	4	2
<b>Total</b>	<b>59</b>	<b>46</b>

## SELECTED SYSTEM

# 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:

The selected system provides for proper collection and disposal of the waste generated in the County. It maintains the current management system in which solid waste will continue to be exported out of the County and an emphasis would be placed on reducing the amount of waste needing to be landfilled. Collection of solid waste will continue through private agreements between local haulers and individual homeowners, businesses, industries, or municipalities. The County will continue to support existing resource recovery, recycling and composting programs, and expansions of the existing programs and/or new programs may be implemented.

SELECTED SYSTEM

**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 <sup>1</sup>	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS <sup>2</sup>
<u>Mecosta</u>	<u>Clare</u>		<u>100%</u>	<u>100%</u>	<u>P</u>
<u>Mecosta</u>	<u>Montcalm</u>		<u>100%</u>	<u>100%</u>	<u>P</u>
<u>Mecosta</u>	<u>Ionia</u>		<u>100%</u>	<u>100%</u>	<u>P</u>
<u>Mecosta</u>	<u>Kent</u>		<u>100%</u>	<u>100%</u>	<u>P</u>
<u>Mecosta</u>	<u>Ottawa</u>		<u>100%</u>	<u>100%</u>	<u>P</u>
<u>Mecosta</u>	<u>Shiawassee</u>		<u>100%</u>	<u>100%</u>	<u>P</u>
<u>Mecosta</u>	<u>Osceola</u>		<u>100%</u>	<u>100%</u>	<u>P</u>
<u>Mecosta</u>	<u>Muskegon</u>		<u>100%</u>	<u>100%</u>	<u>P</u>

<sup>1</sup> Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.

<sup>2</sup> Authorization indicated by P = Primary Disposal; C = Contingency Disposal; \* = Other conditions exist and detailed explanation is included in the Attachment Section.

SELECTED SYSTEM

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 <sup>3</sup>	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS <sup>4</sup>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

<sup>3</sup> Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.

<sup>4</sup> Authorization indicated by P = Primary Disposal; C = Contingency Disposal; \* = Other conditions exist and detailed explanation is included in the Attachment Section.

SELECTED SYSTEM

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 <sup>5</sup>	AUTHORIZED QUANTITY/DAILY	AUTHORIZED QUANTITY/ANNUAL	AUTHORIZED CONDITIONS <sup>6</sup>
Mecosta	Clare	Northern Oaks			
Mecosta	Montcalm	Central Sanitary Landfill			
Mecosta	Ionia	Pitsch Landfill	65 tons/day		*
Mecosta	Kent	South Kent Landfill			*
Mecosta	Ottawa	Ottawa County Farms and Autumn Hills		1,500,000 tons/yr	
Mecosta	Shiawassee	Venice Park Recycling & Disposal Facility			
Mecosta	**Osceola	Osceola County Waste Systems, Inc.			*
Mecosta	Muskegon	Muskegon County Landfill			C

\*\* Osceola County Waste Systems, Inc. is currently closed

<sup>5</sup> Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.

<sup>6</sup> Authorization indicated by P = Primary Disposal; C = Contingency Disposal; \* = Other conditions exist and detailed explanation is included in the Attachment Section.

SELECTED SYSTEM

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 <sup>7</sup>	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS <sup>8</sup>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

<sup>7</sup> Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.

<sup>8</sup> 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 33 through 43 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:

Northern Oaks Recycling and Disposal Facility  
Pitsch Sanitary Landfill  
Central Sanitary Landfill  
Ottawa County Farms Landfill  
Autumn Hills Recycling and Disposal Facility  
South Kent County Landfill  
Venice Park Recycling and Disposal Facility  
Osceola County Waste Systems, Inc. (currently closed)

Type A Transfer Facility:

North Kent County Transfer Station  
Kent Waste-To-Energy Transfer Station

Type B Transfer Facility:

Type III Landfill:

Incinerator:

Waste-to-Energy Incinerator:

Kent County Waste-To-Energy Facility

Processing Plant:

Waste Piles:

Other:

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 Attachments Section.

**DATA BASE**

FACILITY DESCRIPTIONS

Facility Type: Landfill Type II

Facility Name: Pitsch Sanitary Landfill

County: Ionia Location: Town: 8N Range: 7W Section(s): N 1/2 of the NE 1/4 of 7

Map identifying location included in Attachment Section:  Yes  No

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

Public  Private Owner: Pitsch Companies

Operating Status (check)

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

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

\* Explanation of special wastes, including a specific list and/or conditions:  
 wet sweepings and asbestos.

**Site Size:**

			<b><u>Proposed Expansion* 1998</u></b>	
Total area of facility property:	<u>143.5</u>	acres		
Total area sited for use:	<u>28.36</u>	acres	<u>41.28</u>	acres
Total area permitted:	<u>78.44</u>	acres		
Operating:	<u>9.87</u>	acres		
Not excavated:	<u>70</u>	acres		
Current capacity:	<u>415,000</u>	<input checked="" type="checkbox"/> tons or <input type="checkbox"/> yds <sup>3</sup>	<u>4,500,000</u>	cyds
Estimated lifetime:	<u>5</u>	years	<u>22</u>	years
Estimated days open per year:	<u>307</u>	days		
Estimated yearly disposal volume:	<u>83,000</u>	<input checked="" type="checkbox"/> tons or <input type="checkbox"/> yds <sup>3</sup>		* Year of planned expansion

(if applicable)

Annual energy production:  
 Landfill gas recovery projects: \_\_\_\_\_ megawatts  
 Waste-to-energy incinerators: \_\_\_\_\_ megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Osceola County Waste Systems, Inc.

County: Osceola Location: Town: 17N Range: 10W Section(s): 30

Map identifying location included in Attachment Section:  Yes  No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: N/A

Public  Private Owner: Osceola County Waste Systems, Inc.

Operating Status (check)

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

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

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

\*\*This landfill has been closed since September 2, 1994, due to non-compliance.

Site Size:

Total area of facility property: 80 acres

Total area sited for use: 80 acres

Total area permitted: 40 acres

Operating: 0 acres

Not excavated: 20 acres

Current capacity: 1,500,000  tons or  yds<sup>3</sup>

Estimated lifetime: 15 years

Estimated days open per year: \*\* days

Estimated yearly disposal volume: \*\*  tons or  yds<sup>3</sup>

(if applicable)

Annual energy production:

Landfill gas recovery projects: N/A megawatts

Waste-to-energy incinerators: N/A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Ottawa County Farms Landfill

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

Map identifying location included in Attachment Section:  Yes  No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: N/A

Public  Private Owner: Allied Waste Systems

Operating Status (check)

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

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

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

Site Size:

Total area of facility property:	<u>240</u>	acres
Total area sited for use:	<u>197</u>	acres
Total area permitted:	<u>197</u>	acres
Operating:	<u>37</u>	acres
Not excavated:	<u>125</u>	acres
Current capacity:	<u>16,500,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds <sup>3</sup>
Estimated lifetime:	<u>25-30</u>	years
Estimated days open per year:	<u>286</u>	days
Estimated yearly disposal volume:	<u>500,000</u>	<input checked="" type="checkbox"/> tons or <input type="checkbox"/> yds <sup>3</sup>

(if applicable)

Annual energy production:		
Landfill gas recovery projects:	<u>4,565</u>	megawatts
Waste-to-energy incinerators:	<u>          </u>	megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: South Kent County Landfill

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

Map identifying location included in Attachment Section:  Yes  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: Kent County

Operating Status (check)

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

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

\* Explanation of special wastes, including a specific list and/or conditions:  
Foundry sands, street sweepings, sludges, contaminated soils, etc.

Site Size:

Total area of facility property:	<u>250</u>	acres	
Total area sited for use:	<u>112</u>	acres	
Total area permitted:	<u>112</u>	acres	
Operating:	<u>31</u>	acres	
Not excavated:	<u>81</u>	acres	
Current capacity:	<u>7,600,000</u>	<input checked="" type="checkbox"/> tons or <input type="checkbox"/> yds <sup>3</sup>	1.5 million tons ash
Estimated lifetime:	<u>38</u>	years	
Estimated days open per year:	<u>310</u>	days	
Estimated yearly disposal volume:	<u>155,000</u>	<input checked="" type="checkbox"/> tons or <input type="checkbox"/> yds <sup>3</sup>	

(if applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Autumn Hills Recycling and Disposal Facility

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

Map identifying location included in Attachment Section:  Yes  No

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

Public  Private Owner: Waste Management of Michigan, Inc.

Operating Status (check)

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

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other: solidification/yard waste

\* Explanation of special wastes, including a specific list and/or conditions:  
Foundary sands, sludges, fly ash, etc.

Site Size:

Total area of facility property:	<u>314</u>	acres
Total area sited for use:	<u>197</u>	acres
Total area permitted:	<u>99.3</u>	acres
Operating:	<u>35.1</u>	acres
Not excavated:	<u>64.2</u>	acres
Current capacity:	<u>20.75 mil</u>	<input checked="" type="checkbox"/> tons or <input type="checkbox"/> yds <sup>3</sup>
Estimated lifetime:	<u>30.2</u>	years
Estimated days open per year:	<u>286</u>	days
Estimated yearly disposal volume:	<u>500,000</u>	<input checked="" type="checkbox"/> tons or <input type="checkbox"/> yds <sup>3</sup>

(if applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Central Sanitary Landfill

County: Montcalm Location: Town: 11 Range: 10 Section(s): 21

Map identifying location included in Attachment Section:  Yes  No

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

Public  Private Owner: Allied Waste

Operating Status (check)

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

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

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

Site Size:

Total area of facility property:	<u>315</u>	acres
Total area sited for use:	<u>40.32</u>	acres
Total area permitted:	<u>18.45</u>	acres
Operating:	<u>5.76</u>	acres
Current capacity:	<u>373,428</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds <sup>3</sup>
Estimated lifetime:	<u>2</u>	years
Estimated days open per year:	<u>306</u>	days
Estimated yearly disposal volume:	<u>100,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds <sup>3</sup>

(if applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Waste To Energy

Facility Name: Kent County Waste-To-Energy Facility

County: Kent Location: Town:    Range:    Section(s): City of Grand Rapids

Map identifying location included in Attachment Section:  Yes  No

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

Public  Private Owner: Kent County

Operating Status (check)

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

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

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

Site Size:

Total area of facility property:        acres  
 Total area sited for use:        acres  
 Total area permitted:        acres  
 Operating:        acres  
 Not excavated:        acres

Current capacity: 625/day  tons or  yds<sup>3</sup>  
 Estimated lifetime:        years  
 Estimated days open per year: 310 days  
 Estimated yearly disposal volume: 194,000  tons or  yds<sup>3</sup>

(if applicable)

Annual energy production:         
 Landfill gas recovery projects: N/A megawatts  
 Waste-to-energy incinerators: 72/day megawatts 116,000 lb. of steam/hr

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Kent County Waste-To-Energy Facility Transfer Station

County: Kent Location: Town: \_\_ Range: \_\_ Section(s): City of Grand Rapids

Map identifying location included in Attachment Section:  Yes  No

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

Public  Private Owner: Kent County

Operating Status (check)

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

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

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

Site Size:

Total area of facility property: \_\_\_\_\_ acres

Total area sited for use: \_\_\_\_\_ acres

Total area permitted: \_\_\_\_\_ acres

Operating: \_\_\_\_\_ acres

Not excavated: \_\_\_\_\_ acres

Current capacity: \_\_\_\_\_  tons or  yds<sup>3</sup>

Estimated lifetime: \_\_\_\_\_ years

Estimated days open per year: 310 days

Estimated yearly disposal volume: 80,000  tons or  yds<sup>3</sup>

(if applicable)

Annual energy production:

Landfill gas recovery projects: N/A megawatts

Waste-to-energy incinerators: N/A megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: North Kent County Transfer Station

County: Kent Location: Town: 8N Range: 1W Section(s): 2,3

Map identifying location included in Attachment Section:  Yes  No

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

Public  Private Owner: Kent County

Operating Status (check)

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

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

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

Site Size:

Total area of facility property: \_\_\_\_\_ acres  
Total area sited for use: \_\_\_\_\_ acres  
Total area permitted: \_\_\_\_\_ acres  
Operating: \_\_\_\_\_ acres  
Not excavated: \_\_\_\_\_ acres  
Current capacity: \_\_\_\_\_  tons or  yds<sup>3</sup>  
Estimated lifetime: \_\_\_\_\_ years  
Estimated days open per year: 310 days  
Estimated yearly disposal volume: 22,000  tons or  yds<sup>3</sup>

(if applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Venice Park Recycling and Disposal Facility

County: Shiawassee Location: Town: 7N Range: 4E Section(s): 27

Map identifying location included in Attachment Section:  Yes  No

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

Public  Private Owner: Waste Management of Michigan, Inc.

Operating Status (check)

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

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other: Non-hazardous liquids for solidification

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

Contaminated soils, sludges, filter cake, process wastes, coal ash, foundry sand, chemical containing equipment, used containers, treated medical waste, contaminated demolition debris, street sweeping, sediment trap materials, and asbestos.

Site Size:

Total area of facility property: 331 acres

Total area sited for use: 80 acres

Total area permitted: 69 acres

Operating: 41 acres

Not excavated: 2.5 acres

Current capacity: 1,300,000  tons or  yds<sup>3</sup>

Estimated lifetime: 2.5 years

Estimated days open per year: 286 days

Estimated yearly disposal volume: 526,000  tons or  yds<sup>3</sup>

(if applicable)

Annual energy production:

Landfill gas recovery projects: 12,500 megawatts

Waste-to-energy incinerators: N/A megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Northern Oaks Recycling & Disposal Facility

County: Clare Location: Town: 19N Range: 4W Section(s): 32

Map identifying location included in Attachment Section:  Yes  No

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

Public  Private Owner: Waste Management of Michigan, Inc.

Operating Status (check)

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

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

Explanation of special wastes, including a specific list and/or conditions:  
WWTP filter cake and sludge.

Site Size:

Total area of facility property: 160 acres  
 Total area sited for use: 76 acres  
 Total area permitted: 76 acres  
 Operating: 19 acres  
 Not excavated: 57 acres

Current capacity: 8,755,100  tons or  yds<sup>3</sup>  
 Estimated lifetime: 43 years  
 Estimated days open per year: 260 days  
 Estimated yearly disposal volume: 409,000  tons or  yds<sup>3</sup>

(if applicable)

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

Solid waste is collected and transported by private waste haulers in the County. This system effectively serves the needs of the residents and is currently the most efficient means of waste collection. Some haulers offer curbside recycling as part of their service; however, only a few municipalities have this service included in their contract. Primarily, the haulers transport waste to the Central Sanitary Landfill in Montcalm County, Pitsch Landfill in Ionia County and Northern Oaks Landfill in Clare County. Other than the city of Big Rapids and Ferris State University, the majority of the residents have more than one waste hauler servicing their area. The following table illustrates the final disposal area for each particular hauler in the County:

**TABLE VI: HAULERS AND FINAL DISPOSAL AREAS**

<b>Service Provider</b>	<b>Public/Private</b>	<b>Service Area</b>	<b>Final Disposal Facility</b>
<b>Waste Management, Inc.</b>	Private	Ferris State and other areas in Mecosta County	Northern Oaks
<b>Dent Disposal</b>	Private	Mecosta County	Central and Pitsch
<b>Meceola Waste Systems (Back Forty)</b>	Private	Mecosta County	Central and Northern Oaks
<b>Sunset Waste Services</b>	Private	Big Rapids and other areas in Mecosta County	Central
<b>Sam's Disposal</b>	Private	Mecosta County	Central





**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.

Recycle! Mecosta is a voluntary recycling program located in Big Rapids. An average of 1,000 individuals per month drop off recyclables and at least 20 to 25 businesses and institutions use the center. They accept the following items for recycling:

- Newspaper-phone books
- Corrugated cardboard
- Magazines and catalogs
- White office paper-computer paper
- Colored office paper-fiberboard-junk mail
- Aluminum
- Plastic #1 and Plastic #2
- Polystyrene
- Glass-clear, brown and green
- Tin cans-small scrap metal
- Books-hard and soft cover

The average volume collected from this facility is indicated below:

- Cardboard 50,000 lbs. every 2-3 weeks
- Paper 46,000 lbs. per month
- Newspaper 45,000 lbs. per month
- Glass 20,000 lbs. every other month
- Tin 10,000 lbs. every 6 weeks
- Plastic 5,000 lbs. per month
- Aluminum 1,000 lbs. every 3 months

Some private haulers in the County also provide curbside collection of recyclables. Sunset Waste Services only offers curbside recycling in the city of Big Rapids and the village of Barryton is serviced by Waste Management, Inc. The following table lists the type and volume of material collected as provided by staff from each facility.

Hauler	Material Accepted for Recycling	Volume of Material
Sunset Waste Services	Paper Products, Plastics 1 and 2, Clear Glass and Tin Cans	Approximately 4 tons every other week
Waste Management, Inc.	Plastic, Tin, Clear and Colored Glass and Newspaper	Approximately 9.87 tons per year
Sam's Disposal	N/A	N/A
Meceola Waste Systems/Back Forty	N/A	N/A
Dent Disposal	Offers some collection of recyclables, but minimal	Not able to provide information

SELECTED SYSTEM

Expansion of the current voluntary recycling program in the County is hindered by the following factors:

- Several waste haulers service all areas of the County, which makes the coordination of a collection program difficult.  
Although opportunities are available for residents to recycle, 100 percent participation is still not achieved.
- The cost of expanding current programs is expensive.

Mecosta County encourages the composting of yard waste by its residents. The city of Big Rapids operates a composting site and during the fall season, curbside collection of leaves is offered. In addition, Sunset Waste Services, which is currently contracted to service the city of Big Rapids, provides curbside collection of yard waste from early spring to late fall. Staff from Sunset Waste Services estimated 20-25 yards of compost material is collected each week. In general, composting programs countywide are limited; therefore, the majority of the residents in the County are expected to take responsibility for their own composting.

SELECTED SYSTEM

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:

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:

Programs for source separation of potentially hazardous materials are feasible and details are included on the following pages. Big Rapids Township offers a yearly household hazardous waste collection day; however, further hazardous waste collection programs are hindered by funding availability and the willingness of an organization to take responsibility for organizing an event.

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

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 the tables on pages III-18, 19, and 20, list the existing recycling, composting, and source separation of hazardous materials programs that are currently active in the County and which will be continued as part of this Plan. The second group of three tables on pages III-21, 22, and 23, list the recycling, composting, and source separation of hazardous materials programs that are proposed in the future for the County. It is not this Plan update's intent to prohibit additional programs or expansions of current programs to be implemented beyond those listed.

The County supports a voluntary recycling program called Recycle! Mecosta. This facility enables residents to drop off their recyclables and offers pick up service to some of the larger businesses in the area. The major markets available for the recycled products from the Recycle! Mecosta facility are Louis Padnos Iron and Steel Co., Recycletech, NuWool Industries, Dart Containers, and RWG. Curbside recycling is also offered to the some of the residents in the County through private hauling companies. Sunset Waste Services takes the recycled material they collect to a facility in Kent County and Waste Management, Inc., takes their recyclables to the Isabella County recycling facility.

The County encourages the composting of yard waste by its residents. The city of Big Rapids operates a composting site and offers curbside collection of leaves in the fall season. In addition, Sunset Waste Services, which is currently contracted to service the city of Big Rapids, provides curbside collection of yard waste from early spring to late fall. In general, composting programs county-wide are limited; therefore, the majority of the residents in the County are expected to take responsibility for their own composting.

TABLE III-1

RECYCLING:

<u>Program Name</u>	<u>Service Area</u> <sup>9</sup>	<u>Public or Private</u>	<u>Collection Point</u> <sup>11</sup>	<u>Collection Frequency</u> <sup>12</sup>	<u>Materials Collected</u> <sup>13</sup>	<u>Program Development</u>	<u>Management Operation</u>	<u>Responsibilities Evaluation</u> <sup>10</sup>
Recycle! Mecosta	Mecosta County	Public	d,o	w	a,b,c,d,e,f	2,6	6	6
Curbside recycling provided by waste haulers	Mecosta County	Private	c	w	a,b,c,d,e,f	5	5	5

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

<sup>9</sup> 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.

<sup>10</sup> Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 57); 5 = Private Owner/Operator; 6 = Other (Identified on page 57).

<sup>11</sup> Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

<sup>12</sup> 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.

<sup>13</sup> 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 58.

TABLE III-2

COMPOSTING:

<u>Program Name</u>	<u>Service Area</u> <sup>14</sup>	<u>Public or Private</u>	<u>Collection Point</u> <sup>16</sup>	<u>Collection Frequency</u> <sup>17</sup>	<u>Materials Collected</u> <sup>18</sup>	<u>Program Development</u>	<u>Management Operation</u>	<u>Responsibilities Evaluation</u> <sup>15</sup>
City of Big Rapids provides leaf collection program	Big Rapids area	<u>Public</u>	<u>c</u>	<u>Fa</u>	<u>L</u>	<u>7</u>	<u>7</u>	<u>7</u>
Sunset Waste Services curbside composting service	Big Rapids area	<u>Private</u>	<u>c</u>	<u>Sp-Fa</u>	<u>G,L</u>	<u>5</u>	<u>5</u>	<u>5</u>

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

<sup>14</sup> 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.

<sup>15</sup> Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 57); 5 = Private Owner/Operator; 7 = Other (Identified on page 57).

<sup>16</sup> Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

<sup>17</sup> 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.

<sup>18</sup> 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 58.

TABLE III-3

SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS:

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

<u>Program Name</u>	<u>Service Area</u> <sup>19</sup>	<u>Public or Private</u>	<u>Collection Point</u> <sup>21</sup>	<u>Frequency</u> <sup>22</sup>	<u>Materials Collected</u> <sup>23</sup>	<u>Program Development</u>	<u>Management Operation</u>	<u>Responsibilities</u> <sup>20</sup>
		<u>public</u>	<u>d</u>	<u>y</u>	<u>B1,U</u>	<u>5.8</u>	<u>5.8</u>	<u>5.8</u>
Big Rapids Township yearly collection day	Mecosta County							

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

<sup>19</sup> 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.

<sup>20</sup> Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 57); 5 = Private Owner/Operator; 8 = Other (Identified on page 57).

<sup>21</sup> Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

<sup>22</sup> Identified by d = daily; w = weekly; m = monthly; y=yearly; and if seasonal service also indicated by Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter.

<sup>23</sup> Identified by the materials collected by listing of the letter located by that material type. AR = Aerosol Cans; A = Automotive Products except Used Oil, Oil Filters & Antifreeze; AN = Antifreeze; B1 = Lead Acid Batteries; B2 = Household Batteries; C = Cleaners and Polishers; H = Hobby and Art Supplies; OF = Used Oil Filters; P = Paints and Solvents; PS = Pesticides and Herbicides; PH = Personal and Health Care Products; U = Used Oil; OT = Other Materials and identified.

TABLE III-4

PROPOSED RECYCLING:

<u>Program Name</u> (if known)	<u>Service Area</u> <sup>24</sup>	<u>Public or Private</u>	<u>Collection Point</u> <sup>26</sup>	<u>Collection Frequency</u> <sup>27</sup>	<u>Materials Collected</u> <sup>28</sup>	<u>Program Development</u>	<u>Management Operation</u>	<u>Responsibilities Evaluation</u> <sup>25</sup>
No local program identified								

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

<sup>24</sup> 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.

<sup>25</sup> Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 57); 5 = Private Owner/Operator; 6,7,8 = Other (Identified on page 57).

<sup>26</sup> Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

<sup>27</sup> 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.

<sup>28</sup> 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 58.

TABLE III-5

PROPOSED COMPOSTING:

<u>Program Name</u> (if known)	<u>Service Area</u> <sup>29</sup>	<u>Public or Private</u>	<u>Collection Point</u> <sup>31</sup>	<u>Collection Frequency</u> <sup>32</sup>	<u>Materials Collected</u> <sup>33</sup>	<u>Program Development</u>	<u>Management Operation</u>	<u>Responsibilities Evaluation</u> <sup>30</sup>
No local program identified		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____

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

<sup>29</sup> 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.

<sup>30</sup> Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 57); 5 = Private Owner/Operator; 6,7,8 = Other (Identified on page 57).

<sup>31</sup> Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

<sup>32</sup> 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.

<sup>33</sup> 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 58.

TABLE III-6

PROPOSED SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS:

<u>Program Name</u> (if known)	<u>Service Area</u> <sup>34</sup>	<u>Public or Collection Materials Program</u>					<u>Management Responsibilities</u> <sup>35</sup>	
		<u>Private</u>	<u>Point</u> <sup>36</sup>	<u>Frequency</u> <sup>37</sup>	<u>Collected</u> <sup>38</sup>	<u>Development</u>	<u>Operation</u>	<u>Evaluation</u>
No local program identified		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____

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

<sup>34</sup> 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.

<sup>35</sup> Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 57); 5 = Private Owner/Operator; 6,7,8 = Other (Identified on page 57).

<sup>36</sup> Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

<sup>37</sup> 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.

<sup>38</sup> Identified by the materials collected by listing of the letter located by that material type. AR = Aerosol Cans; A = Automotive Products except Used Oil, Oil Filters & Antifreeze; AN = Antifreeze; B1 = Lead Acid Batteries; B2 = Household Batteries; C = Cleaners and Polishers; H = Hobby and Art Supplies; OF = Used Oil Filters; P = Paints and Solvents; PS = Pesticides and Herbicides; PH = Personal and Health Care Products; U = Used Oil; OT = Other Materials and identified.

SELECTED SYSTEM

IDENTIFICATION OF RESOURCE RECOVERY MANAGEMENT ENTITIES:

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

Environmental Groups:

Other:

<sup>6</sup>Staff and volunteers at Recycle! Mecosta facility

<sup>7</sup>City of Big Rapids

<sup>8</sup>Big Rapids Township

SELECTED SYSTEM

**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. Sunset Waste Services does collect recyclables in the city of Big Rapids; however, the data that was provided was not separated into the specific collected material as outlined in this chart. Staff estimated they collect approximately 104 tons/year of paper products, plastic, clear glass, and tin cans, and they collect approximately 30 cyds/week of commercially recycled cardboard.

<u>Collected Material:</u>	<u>Projected Annual Tons Diverted:</u>			<u>Collected Material:</u>	<u>Projected Annual Tons Diverted:</u>		
	Current	5th Yr	10th Yr		Current	5th Yr	10th Yr
A. TOTAL PLASTICS:	<u>32.31</u>	<u>35.48</u>	<u>38.64</u>	G. GRASS AND LEAVES:	<u>unk</u>	<u>unk</u>	<u>unk</u>
B. NEWSPAPER:	<u>276.56</u>	<u>303.66</u>	<u>330.69</u>	H. TOTAL WOOD WASTE:	<u>unk</u>	<u>unk</u>	<u>unk</u>
C. CORRUGATED CONTAINERS:	<u>434.33</u>	<u>476.89</u>	<u>519.33</u>	I. CONSTRUCTION AND DEMOLITION:	<u>unk</u>	<u>unk</u>	<u>unk</u>
D. TOTAL OTHER PAPER:	<u>unk</u>	<u>unk</u>	<u>unk</u>	J. FOOD AND FOOD PROCESSING:	<u>unk</u>	<u>unk</u>	<u>unk</u>
E. TOTAL GLASS:	<u>8.31</u>	<u>9.12</u>	<u>9.93</u>	K. TIRES:	<u>unk</u>	<u>unk</u>	<u>unk</u>
F. OTHER MATERIALS:				L. TOTAL METALS:	<u>47.64</u>	<u>52.31</u>	<u>56.97</u>
F1 _____	_____	_____	_____	F3 _____	_____	_____	_____
F2 _____	_____	_____	_____	F4 _____	_____	_____	_____

**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.

<u>Collected Material:</u>	<u>In-State Markets</u>	<u>Out-of-State Markets</u>	<u>Collected Material</u>	<u>In-State Markets</u>	<u>Out-of-State Markets</u>
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:	_____	_____	J. FOOD AND FOOD PROCESSING	_____	_____
E. TOTAL GLASS:	<u>100%</u>	_____	K. TIRES:	_____	_____
F. OTHER MATERIALS:	_____	_____	L. TOTAL METALS:	<u>100%</u>	_____
F1 _____	_____	_____	F3 _____	_____	_____

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**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.

<u>Program Topic</u> <sup>1</sup>	<u>Delivery Medium</u> <sup>2</sup>	<u>Targeted Audience</u> <sup>3</sup>	<u>Program Provider</u> <sup>4</sup>
<u>1,2,3</u>	<u>n,o,f</u>	<u>p,b,i,s K-12</u>	<u>O*</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

The County, municipalities, Recycle! Mecosta or any combination may take responsibility for preparation, implementation, and operation of these programs; however, these programs are most often hindered by available funding.

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

<sup>2</sup> 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.

<sup>3</sup> 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.

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

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

SELECTED SYSTEM

**TIMETABLE FOR SELECTED SYSTEM IMPLEMENTATION**

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

<b>Management Components</b>	<b>Timeline</b>
Recycling Program	Ongoing
Composting Program	Ongoing
Household Hazardous Waste Collection	Ongoing
Educational and Informational Programs*	Ongoing

\*Dependent upon funding

## SELECTED SYSTEM

## SITING REVIEW PROCEDURES

### AUTHORIZED DISPOSAL AREA TYPES

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

None are prohibited.

### 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.

1. Proposals for all new disposal areas must be found consistent with the criteria contained in this section before a determination of consistency may be issued. Proposals for a disposal area type not allowed by the Plan are automatically inconsistent with the Plan unless specifically added to the Plan through a properly approved Plan amendment.
2. To initiate the review under this Plan, the facility developer shall submit ten copies of the information required below to the Mecosta County Clerk.
3. Solid waste facility siting proposals will be reviewed for consistency based solely on the criteria identified in the Plan. The Mecosta County Board of Commissioners (BOC) may designate or appoint a Solid Waste Planning Committee or a Designated Planning Agency (DPA), as it deems appropriate to review proposals for consistency. If the BOC does not designate or appoint a Committee, the BOC shall have the responsibility for reviewing the proposal for consistency. The designated body shall make a recommendation of consistency to the BOC; however, it is the responsibility of the BOC to make the decision on whether the proposal is consistent with the County Plan. A proposal that is declared to be consistent with the Plan shall become part of the Plan upon issuance of a construction permit by the DEQ.
4. Upon receipt of the application, the DPA shall review the application for administrative completeness and make their determination in accordance with the requirements listed in subparts (i)-(vi) below. If the Designated Planning Agency has not been established, the BOC shall be responsible for determining if the application is administratively complete. If no determination is made within 30 working days, the application shall be considered administratively complete. If it is not complete, the developer shall be notified and given the opportunity to provide additional information to make the application complete. The developer shall have 15 days to provide the additional information. If the developer does not provide the additional material within 15 days, the application process will be terminated.
  - (i) The application shall include a name, address, and telephone number for: the applicant (including partners and other ownership interests), the property owner(s) of the site, any consulting engineers, and geologists that will be involved in the project, a designated contact person for the facility developer (if different than the applicant), and shall specify the type of facility being proposed.
  - (ii) The application shall contain information on the site location and orientation. This shall include a legal land description of the project area, a site map showing all roadways and principal land features within two miles of the site, a topographic map with contour intervals of no more than ten feet for the

## SELECTED SYSTEM

site, a map and description of all access roads showing their location, type of surface material, proposed access point to facility, haul route from access roads to nearest state trunkline, and a current map showing the proposed site and surrounding zoning, domiciles, and present usage of all property within one mile of the site.

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

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

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

(vi) If necessary to satisfy the requirements of criteria number xiii, a signed statement indicating the willingness of the developer to provide for road improvements and/or maintenance.

5. Within 45 days from the date the application is determined to be administratively complete, the DPA shall complete the consistency review and make their recommendations to the BOC, who shall send the County's written final determination of consistency for the proposal to the applicant. If the DPA does not make their determination of consistency within 45 days, the application will be considered consistent with the Plan and will be forwarded to the BOC for their concurrence. If the DPA has not been established to perform the siting review, the BOC shall be responsible for making a determination of consistency within 45 days from the date the application is determined to be administratively complete. Should the BOC fail to make their determination of consistency within 45 days, the application shall be considered consistent with the Plan.
6. Upon receiving the DPA's determination of consistency, the BOC shall have 30 days to concur or not concur with the DPA's recommendation. If the BOC fails to take action within 30 days, the application will be considered consistent with the Plan.

As provided in Section 11537a of Part 115, if the county has 66 months of disposal capacity available for all waste generated in the County, the BOC may, at its discretion, refuse to allow this siting procedure to be used.

To be found consistent with the plan, a proposed solid waste disposal area must comply with all the siting criteria and requirements described in subparts (i)-(xiii) below.

### Siting Criteria:

- (i) The active work area for a new facility or expansion of an existing facility shall not be located closer than 500 feet from adjacent property lines, road rights-of-way, lakes, and perennial streams.
- (ii) The active work area for a new facility or expansion of an existing facility shall not be located closer than 1,000 feet from domiciles or public schools existing at the time of submission of the application.

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- (iii) A sanitary landfill shall not be constructed within 10,000 feet of a licensed airport runway.
  - (iv) A facility shall not be located in a 100-year floodplain as defined by Rule 323.311 of the Administrative Rules of Part 31, Water Resources Protection, of Act 451.
  - (v) A facility shall not be located in a wetland regulated by Part 303, Wetlands Protection, of Act 451, unless a permit is issued.
  - (vi) A facility shall not be constructed in lands enrolled under Part 361, Farmland and Open Space Preservation, of Act 451.
  - (vii) A facility shall not be located in an environmental area as defined in Part 323, Shorelands Protection and Management, of Act 451, or in areas of unique habitat as defined by the Department of Natural Resources, Natural Features Inventory.
  - (viii) A facility shall not be located in an area of groundwater recharge as defined by the most currently available United States Geological Survey map or in a wellhead protection area approved by the DEQ.
  - (ix) A facility shall not be located in a designated historic or archaeological area defined by the state historical preservation officer.
  - (x) A facility shall not be located or permitted to expand on land owned by the United States of America or the state of Michigan. Disposal areas may be located on state land only if both of the following conditions are met:
    - a) Thorough investigation and evaluation of the proposed site by the facility developer indicates, to the satisfaction of the DEQ, that the site is suitable for such use.
    - b) The State determines that the land may be released for landfill purposes and the facility developer acquires the property in fee title from the state in accordance with state requirements for such acquisition.
  - (xi) Facilities may only be located on property zoned as agricultural, industrial, or commercial at the time the facility developer applies to the County for a determination of consistency under the Plan. Facilities may be located on unzoned property, but may not be located on property zoned residential.
  - (xii) The owner and operator of a facility shall submit a signed statement indicating a willingness to cooperate with the County on all current and future recycling and composting activities.
  - (xiii) A facility shall be located on a paved, all weather "class a" road. If a facility is not on such a road, the developer shall submit a signed statement agreeing to provide for upgrading and/or maintenance of the road serving the facility.
6. If the facility developer does not agree with the consistency decision of the BOC, the developer may request the DEQ to determine consistency of the proposal with the Plan as part of DEQ review of a construction permit application.
7. If the proposal is found to be inconsistent with the plan, the facility developer shall have 30 days to provide additional information to address the identified deficiencies. If the developer fails to submit

**SELECTED SYSTEM**

additional information within 30 days, the determination of inconsistency will represent the County's final determination. The DPA may only determine consistency and make its recommendation to the BOC on such a resubmittal in regards to the criteria originally found deficient.

8. After the developer submits the additional information addressing the deficiencies, the DPA shall have 30 days to make their determination of consistency and forward their recommendation to the BOC. If the DPA does not make their recommendation to the BOC within 30 days, the recommendation of the DPA will be that the proposal is consistent with the Plan and will be forwarded to the BOC for their determination. The BOC shall have 30 days to accept a recommendation from the DPA and determine whether the corrected proposal is consistent with the Plan. If the BOC fails to make their determination of consistency within 30 days, the application will be considered consistent with the Plan. If the facility developer does not agree with the consistency decision by the BOC, the developer may request the DEQ to determine consistency of the proposal with the Plan as part of the DEQ review of a construction permit application.
9. The final determination of consistency with the Plan shall be made by the DEQ upon submittal by the developer of an application for a construction permit. The DEQ shall review the determination made by the BOC to ensure that the County has properly adhered to the criteria and review procedures.

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**SOLID WASTE MANAGEMENT COMPONENTS<sup>39</sup>**

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, state, and federal agencies responsible for solid waste management including planning, implementation, and enforcement.

The BOC shall be responsible for the implementation and enforcement of the Plan update. The BOC may designate an agency or committee to provide for the review of the administrative completeness of siting applications and the consistency of solid waste siting proposals, but the ultimate decision making on behalf of the County rests with the BOC.

The BOC may take actions to provide funding support to solid waste management activities and shall be responsible for any legislative actions that may be necessary to accomplish the goals of the Plan that do not conflict with federal or state statutes.

**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 – Individual companies
- Product Reuse – Individual companies
- Reduced Material Volume – Individual companies
- Increased Product Lifetime – Individual companies
- Decreased Consumption – Voluntary by the consumer

**Resource Recovery Programs:**

- Composting - The city of Big Rapids, private haulers, and voluntary by the waste generator
- Recycling - Recycle! Mecosta, private haulers, and voluntary by the waste generator
- Energy Production - None

**Volume Reduction Techniques:**

- Private waste haulers during the collection of solid waste.

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<sup>39</sup> Components or subcomponents may be added to this table.

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**Collection Processes:**

Private waste haulers

**Transportation:**

Private waste haulers

**Disposal Areas:**

Processing Plants – None in Mecosta County

Incineration – None in Mecosta County

Transfer Stations – None in Mecosta County

Sanitary Landfills – None in Mecosta County

**Ultimate Disposal Area Uses:**

Owners of the disposal facilities

**Local Responsibility for Plan Update Monitoring & Enforcement:**

Mecosta County Board of Commissioners

**Educational and Informational Programs:**

Mecosta County Board of Commissioners, municipalities, and/or staff from Recycle! Mecosta

Documentation of acceptance of responsibilities is contained in Appendix D.

**LOCAL ORDINANCES AND REGULATIONS AFFECTING SOLID WASTE DISPOSAL**

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

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

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

A. Geographic area/Unit of government:

Type of disposal area affected:

Ordinance or other legal basis:

Requirement/restriction:

B. Geographic area/Unit of government:

Type of disposal area affected:

Ordinance or other legal basis:

Requirement/restriction:

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.

## 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.

- 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:

The estimated total solid waste needing disposal from the County for the ten year planning period is 507,190 tons based on the figures presented on pages 19-20 (5 years at 48,347 tons/year plus 5 years at 53,091 tons/year).

The following table identifies the landfills authorized to accept the County waste and current available capacity, as reported in the facility descriptions.

Landfill	Current Available Capacity (tons)
Ottawa County Farms Landfill	16,500,000
Autumn Hills Recycling and Disposal Facility	20,750,000
South Kent County Landfill	7,600,000
Venice Park Recycling and Disposal Facility	433,333
Northern Oaks	5,866,666
Central Sanitary Landfill	124,476
<b>Total</b>	<b>61,274,475</b>

As shown in the above calculations, the currently available capacity far exceeds the amount needed for the County.

APPENDIX A

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.

Information regarding implementation and evaluation of various components of the Selected System have previously been discussed in the body of the Plan.

## **DETAILED FEATURES OF RECYCLING AND COMPOSTING PROGRAMS:**

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

See Tables III-1 and III-2 on pages 51 and 52.

See page 58, Projected Diversion Rates.

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:** Recycle! Mecosta provides a drop off location for individuals to bring their recyclables and they offer pick up service to local businesses and organizations in the Big Rapids area. Some private haulers in the County also provide curbside recycling; however, they do not bring the recyclables to the Recycle! Mecosta facility.

The City of Big Rapids operates a composting site and during the fall season, they offer curbside collection of leaves. In addition, Sunset Waste Services, which is currently contracted to service Big Rapids, provides curbside collection of yard waste from early spring to late fall. Composting programs countywide are limited; therefore, the majority of the residents in the County are expected to take responsibility for their own composting.

**Proposed Programs:** Additional recycling and composting programs have not been proposed for Mecosta County; therefore, equipment selection has not been identified.

### **Site Availability & Selection**

**Existing Programs:** The Recycle! Mecosta facility is located in Big Rapids, which is the County's largest city. However, Big Rapids is not centrally located in the County; therefore, it may be difficult for some residents of the County to utilize this facility. Even though the Recycle! Mecosta facility may not be in close proximity to some of the County's residents, recycling opportunities are still available due to some private haulers offering curbside recycling.

The composting opportunities available to the County residents are primarily located in the Big Rapids area. The composting site is basic in design; however, it seems to adequately serve the needs of the County. Countywide programs are limited; therefore, most of the residents in the County are expected to take responsibility for their own composting.

**Proposed Programs:** Additional recycling and composting programs have not been proposed; therefore, site availability and selection have not been identified.

**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.

Staff from the city of Big Rapids indicated the composting site is basic in design and was not able to provide the operating parameters.

<u>Program Name:</u>	<u>pH Range</u>	<u>Heat Range</u>	<u>Other Parameter</u>	<u>Measurement Unit</u>
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	

**Proposed Programs:**

<u>Program Name</u>	<u>pH Range</u>	<u>Heat Range</u>	<u>Other Parameter</u>	<u>Measurement Unit</u>
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	

## **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.

The BOC will have the ultimate responsibility for the implementation, operation, and enforcement of the Plan. The BOC may coordinate various components of this Plan with federal, state, local municipalities, agencies, organizations, and commissions.

**COSTS & FUNDING:**

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

<b>System Component<sup>1</sup></b>	<b>Estimated Costs</b>	<b>Potential Funding Sources</b>
<u>Resource Conservation Efforts</u>	None	None
<u>Resource Recovery Programs</u>	\$15,000/year	County General Fund
<u>Volume Reduction Techniques</u>	Unknown	Fees
<u>Collection Processes</u>	Determined by market forces	Fees
<u>Transportation</u>	Determined by market forces	Fees
<u>Disposal Areas</u>	None	None
<u>Future Disposal Area Uses</u>	Determined by market forces	Fees
<u>Management Arrangements</u>	Unknown	Fees
<u>Educational &amp; Informational Programs</u>	Unknown	Unknown

<sup>1</sup> 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, 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, 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 County's selected solid waste management system was chosen because it effectively serves the disposal needs of the County for the five and ten-year planning period, and there are no major obstacles present that would hinder the selected system from continuing to effectively serve the County. The County will continue to work toward Michigan's Solid Waste Policy general goal of reducing the state's reliance on landfills as the primary means of solid waste disposal. Emphasis will be placed on recycling, educating residents, and potentially expanding or adding other programs. Individuals need to make an effort to utilize the programs currently available; although, composting and collection of household hazardous waste programs have much room for improvement.

The County chose not to prepare this Plan update; therefore, determination and evaluation of local needs, resources, and program alternatives were the responsibility of the DEQ. Few local program opportunities were identified to the DEQ for inclusion in this Plan. Given that the DEQ cannot mandate, establish, or finance local programs, the available scope of waste management alternatives is limited.

## **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. There are no major changes to the current solid waste system.
2. Sufficient disposal capacity has been identified.
3. A disposal facility will not need to be sited in the County.
4. A working recycling program.
5. Economically feasible.

### **DISADVANTAGES:**

1. Limited household hazardous waste collection program.
2. Limited composting programs.
3. Reliance on voluntary recycling programs.
4. All waste is transported out of the County; therefore, haulers need to travel greater distances for final waste disposal, which consequently affects the total cost of waste transportation.

# **APPENDIX B**

## **NON-SELECTED**

### **SYSTEMS**

Before selecting the solid waste management system contained within this Plan update, the County developed and considered another alternative system. The details of the non-selected system are available for review in the County's repository. The following section provides a brief description of this non-selected system and an explanation why it was not selected.

## **SYSTEM COMPONENTS:**

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

### **RESOURCE CONSERVATION EFFORTS:**

No programs have been identified.

### **VOLUME REDUCTION TECHNIQUES:**

Under the non-selected system, volume reduction techniques, such as compacting and shredding, would occur during both collection of waste by the hauling trucks and at the County operated landfill.

### **RESOURCE RECOVERY PROGRAMS:**

The County encourages recycling and composting. The Recycle! Mecosta facility would continue to be available to the residents of the County and another drop off location would be feasible to implement at the proposed County operated landfill.

### **COLLECTION PROCESSES:**

Collection of solid waste will continue through private agreements between local haulers and individual homeowners, businesses, industries, or municipalities.

### **TRANSPORTATION:**

Haulers would not need to transport the waste out of the County for final disposal; however, if neighboring counties were to utilize the landfill, more waste hauling vehicles would be traveling on Mecosta county roads.

### **DISPOSAL AREAS:**

A county-owned landfill would be established in order to guarantee long term disposal capacity for the County.

### **INSTITUTIONAL ARRANGEMENTS:**

Significant effort would be required on behalf of the County in order to establish a county-owned landfill. Permits would need to be obtained and both a funding mechanism and a system for maintaining the facility would need to be implemented.

### **EDUCATIONAL AND INFORMATIONAL PROGRAMS:**

The County would continue to encourage educational and informational programs. In order to inform the residents of the recycling opportunities available at the county-operated facility, initial advertisements, newspaper articles, and brochures would be developed.

### **CAPITAL, OPERATIONAL, AND MAINTENANCE COSTS:**

Establishing a county-owned landfill would require significant operational and maintenance costs. A funding mechanism would need to be developed in order to ensure the facility is being properly maintained.

## **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 2 was not chosen as the selected alternative system because it involves a dramatic change to the current system. In addition, significant costs are involved with establishing a County owned landfill and maintaining the facility. This facility would require an increased effort on behalf of the County, which is unnecessary at this time because sufficient capacity is available in neighboring counties. Because sufficient capacity is available, justifying the need for a potential politically controversial facility is difficult. In addition, the mechanism for funding this facility would be difficult to justify; therefore, it is determined the public would not be supportive of this alternative.

## **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. Assurance of available landfill space.
2. The County would have more direct control over waste disposal costs.
3. Additional recycling, composting, and recovery programs would be feasible to implement.
4. Haulers would not need to travel out of the County for final waste disposal.

### **DISADVANTAGES:**

1. Initial and operational costs would be expensive for the County.
2. Increased risk of pollution associated with the disposal facility.
3. Lack of public support.

## **APPENDIX C**

### **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.

ATTACHMENTS

**PUBLIC INVOLVEMENT PROCESS:** 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.

ATTACHMENTS

**PLANNING COMMITTEE APPOINTMENT PROCEDURE:**

The Plan was written by the DEQ under Section 11533(6) of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Therefore, the appointment of a planning committee was not required.

STATE OF MICHIGAN



JOHN ENGLER, Governor

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

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INTERNET: [www.deq.state.mi.us](http://www.deq.state.mi.us)

RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

March 6, 2001

Mr. Jody Birch  
Millbrook Township Supervisor  
3331 30<sup>th</sup> Avenue  
Blanchard, Michigan 49310

Dear Mr. Birch:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

The public meeting is scheduled for April 10, 2001, at 7:00 p.m., at the Mecosta County Court House, Conference Rooms B and C, 400 Elm Street, Big Rapids, Michigan 49307. Representatives from all the municipal units of government are asked to attend. In addition, an announcement of this meeting will be placed in the Big Rapids Pioneer newspaper inviting all concerned parties.

Copies of the Plan are available for review at the following locations:

Department of Environmental Quality  
Waste Management Division  
608 W. Allegan Street  
Lansing, Michigan 48909

Mecosta County Courthouse  
400 Elm Street  
Big Rapids, Michigan 49307

City of Big Rapids  
226 North Michigan Avenue  
Big Rapids, Michigan 49307

Morton Township Hall  
290 West Main  
Mecosta, Michigan 49332

We request that a spokesperson be selected to represent your municipality and to deliver comments on the proposed Plan. Once we have received comments from the municipalities, then the DEQ will open the meeting to receive comments from the general public. Visitors will be asked to register and are urged to submit comments in writing. Written comments to be addressed at the meeting may be submitted to the DEQ until April 5, 2001, and should be sent to the address above.

If you have any questions, please contact me at the telephone number listed below, or by e-mail, at [dumroesi@state.mi.us](mailto:dumroesi@state.mi.us).

Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: Ms. Joan Peck, DEQ  
Mecosta County File

STATE OF MICHIGAN



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RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

March 6, 2001

Ms. Roberta Cline, City Clerk  
City of Big Rapids  
226 North Michigan Avenue  
Big Rapids, Michigan 49307

Dear Ms. Cline:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

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If you have any questions, please contact me at the telephone number listed below, or by e-mail, at [dumroesl@state.mi.us](mailto:dumroesl@state.mi.us).

Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: Ms. Joan Peck, DEQ  
✓ Mecosta County File

STATE OF MICHIGAN



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LANSING MI 48909-7741

INTERNET: [www.deq.state.mi.us](http://www.deq.state.mi.us)

RUSSELL J. HARDING, Director

March 6, 2001

Mr. Dean Floria  
Sheridan Township Supervisor  
1163 Taft Road  
Barryton, Michigan 49305

Dear Mr. Floria:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

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If you have any questions, please contact me at the telephone number listed below, or by e-mail, at [dumroesl@state.mi.us](mailto:dumroesl@state.mi.us).

Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: Ms. Joan Peck, DEQ  
✓ Mecosta County File

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RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

March 6, 2001

Mr. Jack R. Edwards  
Morton Township Supervisor  
P.O. Box 2  
Mecosta, Michigan 49332

Dear Mr. Edwards:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

The public meeting is scheduled for April 10, 2001, at 7:00 p.m., at the Mecosta County Court House, Conference Rooms B and C, 400 Elm Street, Big Rapids, Michigan 49307. Representatives from all the municipal units of government are asked to attend. In addition, an announcement of this meeting will be placed in the Big Rapids Pioneer newspaper inviting all concerned parties.

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If you have any questions, please contact me at the telephone number listed below, or by e-mail, at [dumroesl@state.mi.us](mailto:dumroesl@state.mi.us).

Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: Ms. Joan Peck, DEQ  
✓ Mecosta County File

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RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

March 6, 2001

Mr. John Boyd  
Mecosta Township Supervisor  
P.O. Box 127  
Standwood, Michigan 49346

Dear Mr. Boyd:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

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Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: Ms. Joan Peck, DEQ  
~~Mecosta County File~~

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RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

March 6, 2001

Mr. Arnold Kempton  
Hinton Township Supervisor  
8128 5 Mile Road  
Mecosta, Michigan 49332

Dear Mr. Kempton:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

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Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
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INTERNET: [www.deq.state.mi.us](http://www.deq.state.mi.us)

RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

March 6, 2001

Mr. John M. Wellnitz  
Green Charter Township Supervisor  
20840 20 Mile Road  
Paris, Michigan 49338

Dear Mr. Wellnitz:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

The public meeting is scheduled for April 10, 2001, at 7:00 p.m., at the Mecosta County Court House, Conference Rooms B and C, 400 Elm Street, Big Rapids, Michigan 49307. Representatives from all the municipal units of government are asked to attend. In addition, an announcement of this meeting will be placed in the Big Rapids Pioneer newspaper inviting all concerned parties.

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608 W. Allegan Street  
Lansing, Michigan 48909

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400 Elm Street  
Big Rapids, Michigan 49307

City of Big Rapids  
226 North Michigan Avenue  
Big Rapids, Michigan 49307

Morton Township Hall  
290 West Main  
Mecosta, Michigan 49332

We request that a spokesperson be selected to represent your municipality and to deliver comments on the proposed Plan. Once we have received comments from the municipalities, then the DEQ will open the meeting to receive comments from the general public. Visitors will be asked to register and are urged to submit comments in writing. Written comments to be addressed at the meeting may be submitted to the DEQ until April 5, 2001, and should be sent to the address above.

If you have any questions, please contact me at the telephone number listed below, or by e-mail, at [dumroesi@state.mi.us](mailto:dumroesi@state.mi.us).

Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: Ms. Joan Peck, DEQ  
✓ Mecosta County File

STATE OF MICHIGAN



JOHN ENGLER, Governor

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RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

March 6, 2001

Mr. John Burger  
Chippewa Township Supervisor  
P.O. Box 192  
Chippewa Lake, Michigan 49320

Dear Mr. Burger:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

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If you have any questions, please contact me at the telephone number listed below, or by e-mail, at [dumroesl@state.mi.us](mailto:dumroesl@state.mi.us).

Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: Ms. Joan Peck, DEQ  
~~Mecosta County File~~



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RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

March 6, 2001

Ms. Marilyn Sherman, Village Clerk  
Village of Barryton  
P.O. Box 31  
Barryton, Michigan 49305

Dear Ms. Sherman:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

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Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: ~~Ms.~~ Joan Peck, DEQ  
✓ Mecosta County File

STATE OF MICHIGAN



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RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

March 6, 2001

Mr. Lawrence Richards  
Wheatland Township Supervisor  
2195 9 Mile Road  
Remus, Michigan 49340

Dear Mr. Richards:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

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If you have any questions, please contact me at the telephone number listed below, or by e-mail, at [dumroesl@state.mi.us](mailto:dumroesl@state.mi.us).

Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: ~~Ms. Joan Peck, DEQ~~  
✓ Mecosta County File

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RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

March 6, 2001

Ms. Jody Buiten, Village Clerk  
Village of Stanwood  
P.O. Box 22  
Stanwood, Michigan 49346

Dear Ms. Buiten:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

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Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: Ms. Joan Peck, DEQ  
✓ Mecosta County File

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RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

March 6, 2001

Ms. Margaret Carpenter, Village Clerk  
Village of Morley  
189 South Cass Avenue  
Morley, Michigan 49336

Dear Ms. Carpenter:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

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Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: Ms. Joan Peck, DEQ  
Mecosta County File

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RUSSELL J. HARDING, Director

March 6, 2001

Mr. Alan Fountain, Village Clerk  
Village of Mecosta  
P.O. Box 387  
Mecosta, Michigan 49332

Dear Mr. Fountain:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

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Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: Ms. Joan Peck, DEQ  
~~Mecosta County File~~

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RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

March 6, 2001

Mr. Gerald Loomis  
Martiny Township Supervisor  
12297 80<sup>th</sup> Avenue  
Mecosta, Michigan 49332

Dear Mr. Loomis:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

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Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

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Mecosta County File

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RUSSELL J. HARDING, Director

March 6, 2001

Ms. Trish Kelly  
Grant Township Supervisor  
22244 150<sup>th</sup> Avenue  
Big Rapids, Michigan 49307

Dear Ms. Kelly:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

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Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: Ms. Joan Peck, DEQ  
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RUSSELL J. HARDING, Director

March 6, 2001

Mr. Jack Bark, Sr.  
Fork Township Supervisor  
2513 19 Mile Road  
Barryton, Michigan 49305

Dear Mr. Bark:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

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Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: Ms. Joan Peck, DEQ  
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RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

March 6, 2001

Mr. Alvin Garnett  
Deerfield Township Supervisor  
3428 130<sup>th</sup> Avenue  
Morley, Michigan 49336

Dear Mr. Garnett:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

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Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
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RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

March 6, 2001

Mr. Glenn Norton  
Colfax Township Supervisor  
14321 150<sup>th</sup> Avenue  
Big Rapids, Michigan 49307

Dear Mr. Norton:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

The public meeting is scheduled for April 10, 2001, at 7:00 p.m., at the Mecosta County Court House, Conference Rooms B and C, 400 Elm Street, Big Rapids, Michigan 49307. Representatives from all the municipal units of government are asked to attend. In addition, an announcement of this meeting will be placed in the Big Rapids Pioneer newspaper inviting all concerned parties.

Copies of the Plan are available for review at the following locations:

Department of Environmental Quality  
Waste Management Division  
608 W. Allegan Street  
Lansing, Michigan 48909

Mecosta County Courthouse  
400 Elm Street  
Big Rapids, Michigan 49307

City of Big Rapids  
226 North Michigan Avenue  
Big Rapids, Michigan 49307

Morton Township Hall  
290 West Main  
Mecosta, Michigan 49332

We request that a spokesperson be selected to represent your municipality and to deliver comments on the proposed Plan. Once we have received comments from the municipalities, then the DEQ will open the meeting to receive comments from the general public. Visitors will be asked to register and are urged to submit comments in writing. Written comments to be addressed at the meeting may be submitted to the DEQ until April 5, 2001, and should be sent to the address above.

If you have any questions, please contact me at the telephone number listed below, or by e-mail, at [dumroesl@state.mi.us](mailto:dumroesl@state.mi.us).

Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: Ms. Joan Peck, DEQ  
~~Mecosta County File~~



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](http://www.deq.state.mi.us)

RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

March 6, 2001

Ms. Maxine McClelland  
Big Rapids Charter Township Supervisor  
P.O. Box 809  
Big Rapids, Michigan 49307

Dear Ms. McClelland:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

The public meeting is scheduled for April 10, 2001, at 7:00 p.m., at the Mecosta County Court House, Conference Rooms B and C, 400 Elm Street, Big Rapids, Michigan 49307. Representatives from all the municipal units of government are asked to attend. In addition, an announcement of this meeting will be placed in the Big Rapids Pioneer newspaper inviting all concerned parties.

Copies of the Plan are available for review at the following locations:

Department of Environmental Quality  
Waste Management Division  
608 W. Allegan Street  
Lansing, Michigan 48909

Mecosta County Courthouse  
400 Elm Street  
Big Rapids, Michigan 49307

City of Big Rapids  
226 North Michigan Avenue  
Big Rapids, Michigan 49307

Morton Township Hall  
290 West Main  
Mecosta, Michigan 49332

We request that a spokesperson be selected to represent your municipality and to deliver comments on the proposed Plan. Once we have received comments from the municipalities, then the DEQ will open the meeting to receive comments from the general public. Visitors will be asked to register and are urged to submit comments in writing. Written comments to be addressed at the meeting may be submitted to the DEQ until April 5, 2001, and should be sent to the address above.

If you have any questions, please contact me at the telephone number listed below, or by e-mail, at [dumroesl@state.mi.us](mailto:dumroesl@state.mi.us).

Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: Ms. Joan Peck, DEQ  
~~Mecosta County File~~



JOHN ENGLER, Governor

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INTERNET: [www.deq.state.mi.us](http://www.deq.state.mi.us)

RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

March 6, 2001

Mr. Kenneth Vredenburg  
Austin Township Supervisor  
13829 7 Mile Road  
Standwood, Michigan 49346

Dear Mr. Vredenburg:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

The public meeting is scheduled for April 10, 2001, at 7:00 p.m., at the Mecosta County Court House, Conference Rooms B and C, 400 Elm Street, Big Rapids, Michigan 49307. Representatives from all the municipal units of government are asked to attend. In addition, an announcement of this meeting will be placed in the Big Rapids Pioneer newspaper inviting all concerned parties.

Copies of the Plan are available for review at the following locations:

Department of Environmental Quality  
Waste Management Division  
608 W. Allegan Street  
Lansing, Michigan 48909

Mecosta County Courthouse  
400 Elm Street  
Big Rapids, Michigan 49307

City of Big Rapids  
226 North Michigan Avenue  
Big Rapids, Michigan 49307

Morton Township Hall  
290 West Main  
Mecosta, Michigan 49332

We request that a spokesperson be selected to represent your municipality and to deliver comments on the proposed Plan. Once we have received comments from the municipalities, then the DEQ will open the meeting to receive comments from the general public. Visitors will be asked to register and are urged to submit comments in writing. Written comments to be addressed at the meeting may be submitted to the DEQ until April 5, 2001, and should be sent to the address above.

If you have any questions, please contact me at the telephone number listed below, or by e-mail, at [dumroesl@state.mi.us](mailto:dumroesl@state.mi.us).

Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: Ms. Joan Peck, DEQ  
~~Mecosta County File~~

STATE OF MICHIGAN



JOHN ENGLER, Governor

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

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HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

INTERNET: [www.deq.state.mi.us](http://www.deq.state.mi.us)

RUSSELL J. HARDING, Director

March 6, 2001

Mr. Albert Bigelow  
Aetna Township Supervisor  
20148 1 Mile Road  
Morley, Michigan 49336

Dear Mr. Bigelow:

The purpose of this letter is to announce the upcoming public meeting on the Mecosta County Solid Waste Management Plan Update (Plan). This meeting is part of the 30-day comment period, which begins March 26, 2001 and ends April 24, 2001. It will be conducted by the Department of Environmental Quality (DEQ) in accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules. Section 11533(6) of Part 115 required that the Director of the DEQ prepare the Plan.

The public meeting is scheduled for April 10, 2001, at 7:00 p.m., at the Mecosta County Court House, Conference Rooms B and C, 400 Elm Street, Big Rapids, Michigan 49307. Representatives from all the municipal units of government are asked to attend. In addition, an announcement of this meeting will be placed in the Big Rapids Pioneer newspaper inviting all concerned parties.

Copies of the Plan are available for review at the following locations:

Department of Environmental Quality  
Waste Management Division  
608 W. Allegan Street  
Lansing, Michigan 48909

Mecosta County Courthouse  
400 Elm Street  
Big Rapids, Michigan 49307

City of Big Rapids  
226 North Michigan Avenue  
Big Rapids, Michigan 49307

Morton Township Hall  
290 West Main  
Mecosta, Michigan 49332

We request that a spokesperson be selected to represent your municipality and to deliver comments on the proposed Plan. Once we have received comments from the municipalities, then the DEQ will open the meeting to receive comments from the general public. Visitors will be asked to register and are urged to submit comments in writing. Written comments to be addressed at the meeting may be submitted to the DEQ until April 5, 2001, and should be sent to the address above.

If you have any questions, please contact me at the telephone number listed below, or by e-mail, at [dumroesl@state.mi.us](mailto:dumroesl@state.mi.us).

Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: Ms. Joan Peck, DEQ  
Mecosta County File

STATE OF MICHIGAN



JOHN ENGLER, Governor

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INTERNET: [www.deq.state.mi.us](http://www.deq.state.mi.us)

RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

March 5, 2001

Ms. Patti Wilson  
Big Rapids Pioneer  
502 North State Street  
Big Rapids, Michigan 49307

Dear Ms. Wilson:

This letter is a follow up to our conversation on March 2, 2001, in regard to placing the following public notice in the Legal section of your newspaper. From our conversation, you quoted a price of \$121.28 for this notice to appear in your paper on March 30, 31, and April 2, 2001. Please schedule this notice to appear on these dates.

**The Michigan Department of Environmental Quality (MDEQ)  
ANNOUNCES A PUBLIC MEETING  
on the  
MECOSTA COUNTY SOLID WASTE MANAGEMENT PLAN UPDATE  
Tuesday April 10, 2001 – 7:00 p.m.  
Mecosta County Court House, Conference Rooms B and C  
400 Elm Street, Big Rapids, Michigan 49307**

The public meeting is held to receive verbal and written comments from the local municipalities and the general public as part of a 30-day comment period beginning March 26, 2001 and ending April 24, 2001. Copies of the Plan may be reviewed at the Mecosta County Court House, City of Big Rapids, Morton Township Hall, and the Waste Management Division offices of the MDEQ, 608 W. Allegan Street, Lansing, Michigan. Visitors will be asked to register and are urged to submit comments in writing as well. Written questions to be addressed at the meeting may be submitted to the MDEQ until April 5, 2001, and should be sent to:

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

Please send billing and a tear sheet indicating that the announcement has been printed to the address above. If possible, in order to keep costs to a minimum, please size the announcement for no larger than a two column by five column inch space.

If you have any questions, please contact me at the telephone number listed below, or by e-mail, at [dumroesl@state.mi.us](mailto:dumroesl@state.mi.us).

Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

cc: Ms. Joan Peck, DEQ  
✓ Mecosta County File

STATE OF MICHIGAN



JOHN ENGLER, Governor

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INTERNET: [www.deq.state.mi.us](http://www.deq.state.mi.us)

RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

March 5, 2001

Mr. John E. Todd, Chairman  
Mecosta Board of Commissioners  
400 Elm Street  
Big Rapids, Michigan 49307

Dear Mr. Todd:

In accordance with Section 11533(6) 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, the Department of Environmental Quality (DEQ) has prepared a draft of the Mecosta County Solid Waste Management Plan Update (Plan).

An integral part of the Plan is the Identification of Responsible Parties section on pages 65 and 66. This lists the entities within Mecosta County (County) that will have management and enforcement responsibilities for the Plan. The draft Plan lists the Mecosta Board of Commissioners (BOC) as the body that has local responsibility for Plan monitoring and enforcement and for directing educational and informational programs. In order to finalize the Plan, we need to confirm that the BOC will accept these responsibilities. Please provide the DEQ with a letter accepting the responsibilities by April 4, 2001.

A copy of this Plan is enclosed. The DEQ will provide additional copies of the Plan for the public review at the following locations during a 30-day comment period beginning March 26, 2001 and ending April 24, 2001:

Department of Environment Quality  
Waste Management Division  
608 W. Allegan Street  
Lansing, Michigan 48909

Mecosta County Courthouse  
County Clerks Office  
400 Elm Street  
Big Rapids, Michigan 49307

City of Big Rapids  
226 North Michigan Avenue  
Big Rapids, Michigan 49307

Morton Township Hall  
290 West Main  
Mecosta, Michigan 49332

A public meeting will be held at the Mecosta County Court House, Conference Rooms B and C, on Tuesday April 10, 2001, at 7:00 p.m., to receive comments from interested parties including county officials, representatives of local municipalities, and the general public.

If you have any questions, please contact me at the telephone number listed below, or by e-mail, at [dumroesl@state.mi.us](mailto:dumroesl@state.mi.us).

Sincerely,



Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

Enclosure

cc: Ms. Joan Peck, DEQ  
Ms. Amy LaChance, DEQ – Grand Rapids  
✓ Mecosta County File

STATE OF MICHIGAN



JOHN ENGLER, Governor

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REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

INTERNET: [www.deq.state.mi.us](http://www.deq.state.mi.us)

RUSSELL J. HARDING, Director

March 5, 2001

Ms. Ruth Hess, County Clerk  
Mecosta County Courthouse  
County Clerks Office  
400 Elm Street  
Big Rapids, Michigan 49307

Dear Ms. Hess:

In accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules, the Department of Environmental Quality (DEQ) has drafted the Mecosta County Solid Waste Management Plan Update (Plan).

As per our conversation on February 28, 2001, a notice will be published in the local newspaper which lists the Mecosta County Clerks Office as a repository for the Plan in order to make it available for public review during the 30-day comment period beginning March 26, 2001 and ending April 24, 2001. Therefore, a copy of the Plan is enclosed. If people have questions on the draft Plan or desire copies, please have them contact me.

A public meeting will be held at the Mecosta County Court House, Conference Rooms B and C, on Tuesday April 10, 2001, at 7:00 p.m., to receive comments from interested parties including county officials, representatives of local municipalities, and the general public.

Please post the enclosed notice of this meeting in a public area in the Mecosta County Courthouse.

If you have any questions, please contact me at the telephone number listed below, or by e-mail, at [dumroesl@state.mi.us](mailto:dumroesl@state.mi.us). Thank you for your assistance.

Sincerely,

A handwritten signature in cursive script that reads "Lynn Dumroese".

Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

Enclosure

cc: Ms. Joan Peck, DEQ  
Ms. Amy LaChance, DEQ – Grand Rapids  
Mecosta County File



JOHN ENGLER, Governor

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

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HOLLISTER BUILDING, PO BOX 30473 LANSING MI 48909-7973

REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

INTERNET: [www.deq.state.mi.us](http://www.deq.state.mi.us)

RUSSELL J. HARDING, Director

March 5, 2001

Mr. Jack Edwards  
Morton Township Supervisor  
P.O. Box 2  
Mecosta, Michigan 49332

Dear Mr. Edwards:

In accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules, the Department of Environmental Quality (DEQ) has drafted the Mecosta County Solid Waste Management Plan Update (Plan).

A notice will be published in the local newspaper which lists the Morton Township Hall as a repository for the Plan in order to make it available for public review during the 30 day comment period beginning March 26, 2001 and ending April 24, 2001. Therefore, a copy of the Plan is enclosed. If people have questions on the draft Plan or desire copies, please have them contact me.

A public meeting will be held at the Mecosta County Court House, Conference Rooms B and C, on Tuesday April 10, 2001, at 7:00 p.m., to receive comments from interested parties including county officials, representatives of local municipalities, and the general public.

Please post the enclosed notice of this meeting in a public area in the Morton Township Hall.

If you have any questions, please contact me at the telephone number listed below, or by e-mail, at [dumroesl@state.mi.us](mailto:dumroesl@state.mi.us). Thank you for your assistance.

Sincerely,

A handwritten signature in cursive script that reads "Lynn Dumroese".

Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

Enclosure

cc: Ms. Joan Peck, DEQ  
Ms. Amy LaChance, DEQ - Grand Rapids  
✓ Mecosta County File



JOHN ENGLER, Governor

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REPLY TO:

WASTE MANAGEMENT DIVISION  
PO BOX 30241  
LANSING MI 48909-7741

INTERNET: [www.deq.state.mi.us](http://www.deq.state.mi.us)

RUSSELL J. HARDING, Director

March 5, 2001

Ms. Roberta Cline, City Clerk  
City of Big Rapids  
226 North Michigan Avenue  
Big Rapids, Michigan 49307

Dear Ms. Cline:

In accordance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 Administrative Rules, the Department of Environmental Quality (DEQ) has drafted the Mecosta County Solid Waste Management Plan Update (Plan).

As per our conversation on February 28, 2001, a notice will be published in the local newspaper which lists the City of Big Rapids as a repository for the Plan in order to make it available for public review during the 30-day comment period beginning March 26, 2001 and ending April 24, 2001. Therefore, a copy of the Plan is enclosed. If people have questions on the draft Plan or desire copies, please have them contact me.

A public meeting will be held at the Mecosta County Court House, Conference Rooms B and C, on Tuesday April 10, 2001, at 7:00 p.m., to receive comments from interested parties including county officials, representatives of local municipalities, and the general public.

Please post the enclosed notice of this meeting in a public area in the City of Big Rapids City Hall.

If you have any questions, please contact me at the telephone number listed below, or by e-mail, at [dumroesl@state.mi.us](mailto:dumroesl@state.mi.us). Thank you for your assistance.

Sincerely,

A handwritten signature in cursive script that reads "Lynn Dumroese".

Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
517-373-4738

Enclosure

cc: Ms. Joan Peck, DEQ  
Ms. Amy LaChance, DEQ – Grand Rapids  
✓ Mecosta County File

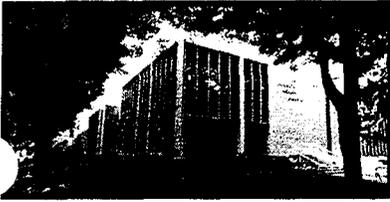
## APPENDIX D

### 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.

The County will continue to utilize the current solid waste management system, but will emphasize the need to decrease the amount of waste being landfilled. The BOC shall be responsible for implementation and enforcement of the County Plan update. The BOC may designate an agency to provide for the operation of recycling and composting programs, the review of the administrative completeness of siting applications, and the consistency of solid waste siting proposals, but the ultimate decision making on behalf of the County rests with the BOC.

The BOC may take actions to provide funding support to solid waste management activities and shall be responsible for any legislative actions that may be necessary to accomplish the goals of the Plan that do not conflict with federal or state statutes.



**COUNTY OF MECOSTA**  
**BOARD OF COMMISSIONERS**  
400 ELM STREET, BIG RAPIDS, MI 49307 (231) 796-2505

April 10, 2001

John Todd  
District #1

Jerrilynn Strong  
District #2

Charles Luteran  
District #3

John McHugh  
District #4

Wayne O'Neil  
District #5

Norman Turner  
District #6

Liz Oleson  
District #7

Paul E. Bullock  
County Administrator

Ms. Lynn Dumroese  
Solid Waste Management Unit  
Waste Management Division  
Michigan Department of Environmental Quality  
P.O. Box 30241  
Lansing, MI 48909-7741

Re: Mecosta County Solid Waste Plan

Dear Ms. Dumroese,

Please accept this letter as Mecosta County's acceptance of designation as the responsible party for "Plan Update Monitoring and Enforcement" and "Educational and Informational Programs" as listed on page 66 of the draft Solid Waste Management Plan for Mecosta County.

The Board of Commissioners voted in a regular meeting on April 5, 2001 to assume this responsibility.

It is our understanding that this will not preclude the County from declining to write future plans.

Sincerely,

John Todd, Chairman  
Mecosta County Board of Commissioners

ATTACHMENTS

**Resolutions**

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

N/A

ATTACHMENTS

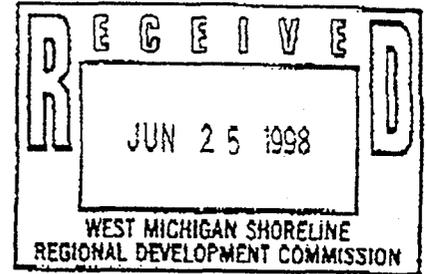
**Listed Capacity**

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

Letters from facilities willing to accept waste from the County are included on the following pages.

Ottawa County  
Environmental  
Health

Solid Waste Management  
Program



# Memorandum

To: Solid Waste Management Planning  
Committees/Designated Planning  
Agencies for:

Post-it* Fax Note	7671	Date	7-17-98	# of pages	4
To	John McCake	From	Steve Harris		
Co./Dept.	DEQ	Co.	WMSRD		
Phone #		Phone #	616-722-7878		
Fax #	5-17-373-4797	Fax #	616-722-9362		

Allegan, Barry, Berrien, Branch,  
Calhoun, Cass, Clare, Clinton, Eaton,  
Gratiot, Ionia, Isabella, Kalamazoo, Kent  
Lake, Mason, Mecosta, Muskegon,  
Montcalm, Newago, Oceana, Osceola,  
St. Joseph, Van Buren Counties.

From: Darwin J. Baas, Solid Waste Management  
Coordinator

Date: Monday, June 22, 1998

Subject: Ottawa County Import/Export  
Authorizations for Type II/III Solid Waste

In preparing the Solid Waste Management Plan Update, Ottawa County has recognized 24 counties within the disposal region for import and export authorization.

### Importation of Out-of-County Solid Waste

Ottawa County has approved the counties listed above for disposal of Type II/III solid waste and authorizes solid waste from these counties to be deposited in licensed facilities located in Ottawa County. Solid waste may be imported from one or any combination of the above listed counties if explicitly authorized by the exporting county's Solid Waste Management Plan. Disposal of solid waste in licensed Type II facilities in Ottawa County is subject to an annual cap of 1,500,000 tons annually.

### Exportation of Ottawa County Solid Waste

Ottawa County will authorize the exportation of up to 100 percent of the Ottawa County solid waste stream to any of the counties listed above whose Solid Waste Management Plan specifically authorize the acceptance of Ottawa County's solid waste.

Enclosed are copies of facility descriptions for the Type II landfills located in Ottawa County. We are requesting that you provide a facility description for each Type II and Type III landfill located within your county, provided the importation of Ottawa County solid waste will be authorized by your Plan. I will be calling you shortly regarding this information.

In the mean time, if you have any questions regarding the enclosed material, please feel free to call me at 616/393-5638.



*Mecosta plan / Jim / File*

# RESOURCE RECOVERY PROJECT OF IONIA COUNTY

**RECEIVED**

MAR 13 1998

**Waste Management  
Division**

March 13, 1998

TO: Designated Planning Agencies for Berrien, Branch, Calhoun, Cass, Clare, Jackson, Kalamazoo, Midland, Mecosta, Osceola, Saginaw, Shiawassee, St. Joseph, Van Buren, and Wexford Counties

FROM: Don Lehman, Ionia County Solid Waste Coordinator

RE: Solid Waste Management Plan Import/Export Arrangements

At Ionia County's Solid Waste Planning Committee meeting on March 5, your county was designated as a county from which "Special Wastes" will be accepted at solid waste disposal facilities in Ionia County. Presently that consists of the Pitsch Landfill in northwest Ionia County. "Special Wastes," as described in Ionia County's Solid Waste Management Plan, consists of construction and demolition debris, foundry sand, sludge, contaminated soils, street sweepings, fly ash, slag, agricultural waste, and others. These "Special Wastes" are Type II wastes, but exclude general Type II residential, commercial, and industrial wastes.

As Ionia County updates its SWMP we will be listing your county as a potential exporter of "Special Waste" to Ionia County. Ionia County's Solid Waste Planning Committee requests that your Solid Waste Management Plan records Ionia County as an importing County for this type of waste. Some counties may desire that this type of arrangement be reciprocal and want their county to be recorded as an importing county for some of Ionia County's waste. If this is the desire of your Solid Waste Planning Committee, please contact me at your convenience.

Ionia County will most likely put an annual cap on the amount of waste permitted to be disposed of at the Pitsch Landfill in order to maintain sufficient capacity for Ionia County's future needs. This could put some restrictions on the use of Pitsch Landfill by your county, but under current conditions the need for restrictions seems to be very limited or even nonexistent.

If you have any questions or comments about Ionia County's intent in proposing this waste disposal relationship, please contact me with your questions or concerns. It is to be hoped that this type of arrangement will help provide your county, and Ionia County, with both primary and contingency capacity over the next ten years and beyond.

Sincerely,

A handwritten signature in cursive script that reads "Donald Lehman".

Donald Lehman  
Solid Waste Coordinator

100 Library Street, Ionia, MI 48846  
Phone: (616)527-5357 Fax: (616)527-5312





**AUTUMN HILLS RECYCLING & DISPOSAL FACILITY**  
A WASTE MANAGEMENT COMPANY

700 56th Avenue  
Zeeland, MI 49464  
(616) 688-5777  
(616) 688-5781 Fax

June 22, 2000

Lynn Dumroese  
Michigan Dept. of Environmental Quality  
P.O. Box 30241  
Lansing, MI 48909

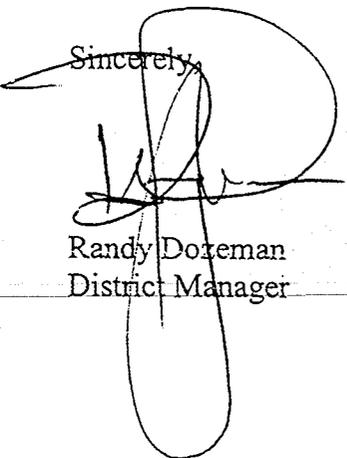
Dear Lynn;

This letter is follow-up to your request of 6-22-00 concerning Autumn Hills RDF.

Two items should be noted. First, the Ottawa County Solid Waste Plan does include Mecosta County. Secondly, Autumn Hills RDF can and will accept waste from Mecosta County. Autumn Hills currently disposes of approximately 600,000 tons of solid waste per year with an annual average cap of 750,000. At our current rate Autumn Hills has capacity in excess of 20 years.

We look forward to serving Mecosta County.

Sincerely,



Randy Doxeman  
District Manager

---



**NORTHERN OAKS RECYCLING AND DISPOSAL FACILITY**  
A WASTE MANAGEMENT COMPANY

P.O. Box 813  
513 N. County Farm Road  
Harrison, Michigan 48625  
(517) 539-6111

August 31, 2000

Ms. Lynn Dumroese  
Department of Environmental Quality

Dear Ms. Dumroese:

Pursuant to your request, Northern Oaks Recycling and Disposal Facility has sufficient capacity to accept Mecosta County Solid Waste for the next ten years.

If you require further information please do not hesitate to contact me.

Respectfully,

Richard Leszcz  
Manager



**VENICE PARK RECYCLING & DISPOSAL FACILITY**  
A WASTE MANAGEMENT COMPANY

9536 East Lennon Road  
Lennon, MI 48449  
(810) 621-9080  
(810) 621-3156 Fax

March 25, 1999

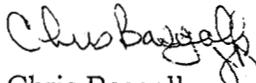
Mr. Jim Johnson  
Solid Waste Program Section  
Waste Management Division  
Department of Environmental Quality  
Hollister Building  
P.O. Box 30473  
Lansing, Mi. 48909-7973

Dear Mr. Johnson,

This letter shall serve as Venice Park's formal request to be included as a primary disposal site in the Mecosta County Solid Waste Plan. Waste is approved to leave Mecosta County and be disposed of at Venice Park in the Shiawassee County Solid Waste Plan. Currently, Venice Park has 900,000 cu. yds. of available air space. Venice Park is in the process of finalizing a construction permit expansion that will be completed and approved in June of 1999. The expansion will yield an additional 15 million cu. yds. of capacity.

Venice Park can accept up to 100% of Mecosta Countys solid waste. If you have questions regarding this communication, please feel free to call me at 810-621-9080.

Sincerely,

  
Chris Basgall

cc: Terry Cooney

# Ottawa County Farms Landfill

June 28, 2000

JUN 30 2000

Lynn Dumroese  
MDEQ  
P.O. Box 30241  
Lansing, MI 48909

Dear Ms. Dumroese:

This letter is to inform you that Ottawa County Farms Landfill is capable and willing to accept 100% of the solid waste generated from Mecosta County.

If you need further information, please contact us at (616) 837-8195.

Sincerely,

OTTAWA COUNTY FARMS LANDFILL



Robert L. Carr  
General Manager

RLC/ddm

- Demolition Engineers
- Asbestos Abatement
- Salvaged Building Materials
- Excavating and Underground Services
- Concrete Recycling

- Landfill Operation
- Dumpster Service
- Commercial & Residential Waste Services
- Land Development



Companies

## SANITARY DIVISION

September 11, 1998

Mecosta  
c/o Jim Johnson  
MDEQ WMD, Solid Waste Program  
P.O. Box 30241  
Lansing, MI. 48909

Dear c/o Jim Johnson:

Pitsch Sanitary Landfill would like to be named in your Solid Waste Management Plan as a receiving landfill. The following attachment is the facility description for the Pitsch Sanitary Landfill located in Belding, Michigan, County of Ionia.

If you have any questions please call me at 616-794-3050 or fax me at 616-794-1769.

Sincerely;

Douglas A. Carson  
Director of Communications

Enc. 5

**RECEIVED**

SEP 15 1998

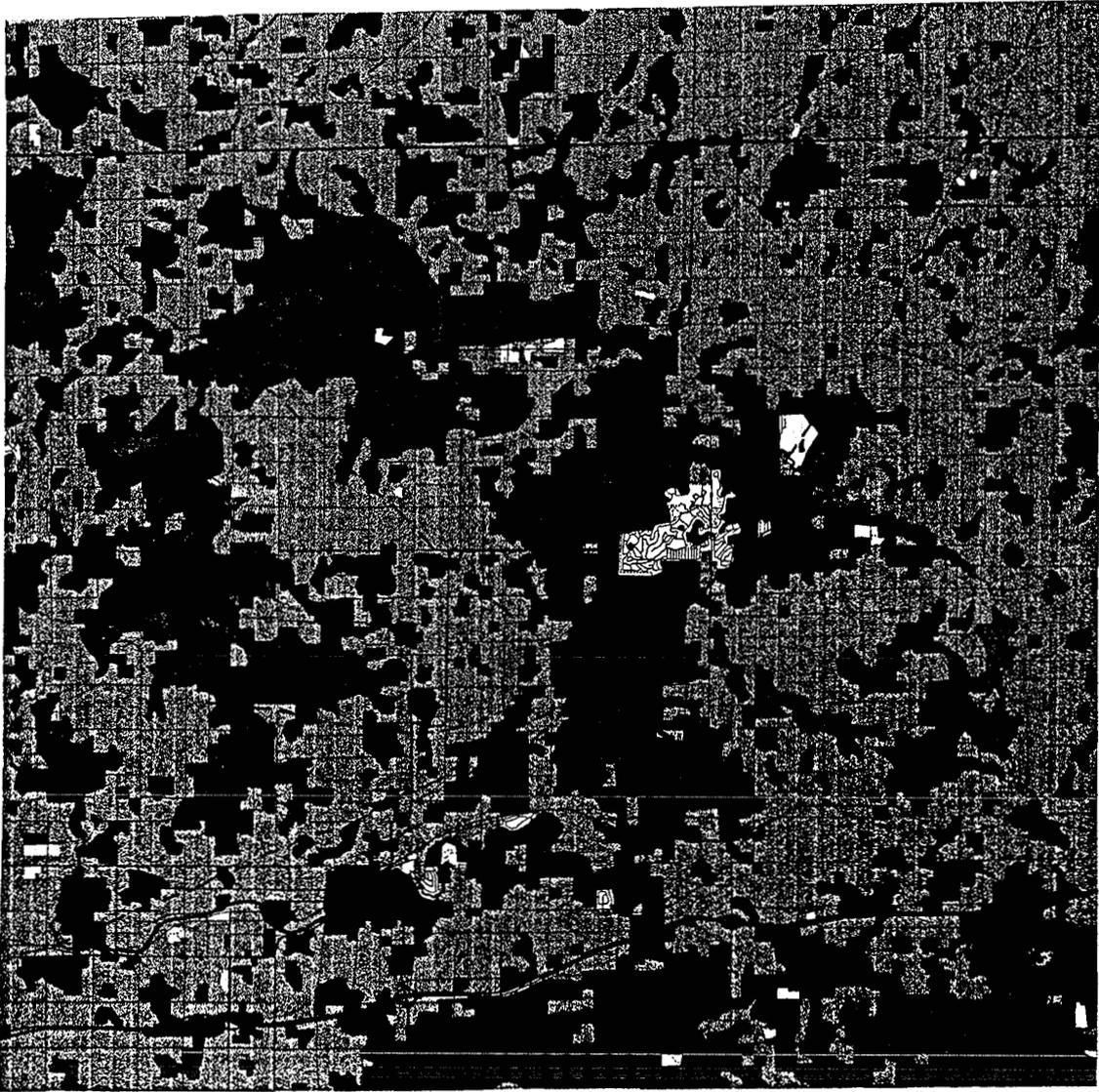
Waste Management  
Division

ATTACHMENTS

**Maps**

Maps showing locations of solid waste disposal facilities used by the County, road maps of the County and a land use map are included on the following pages.

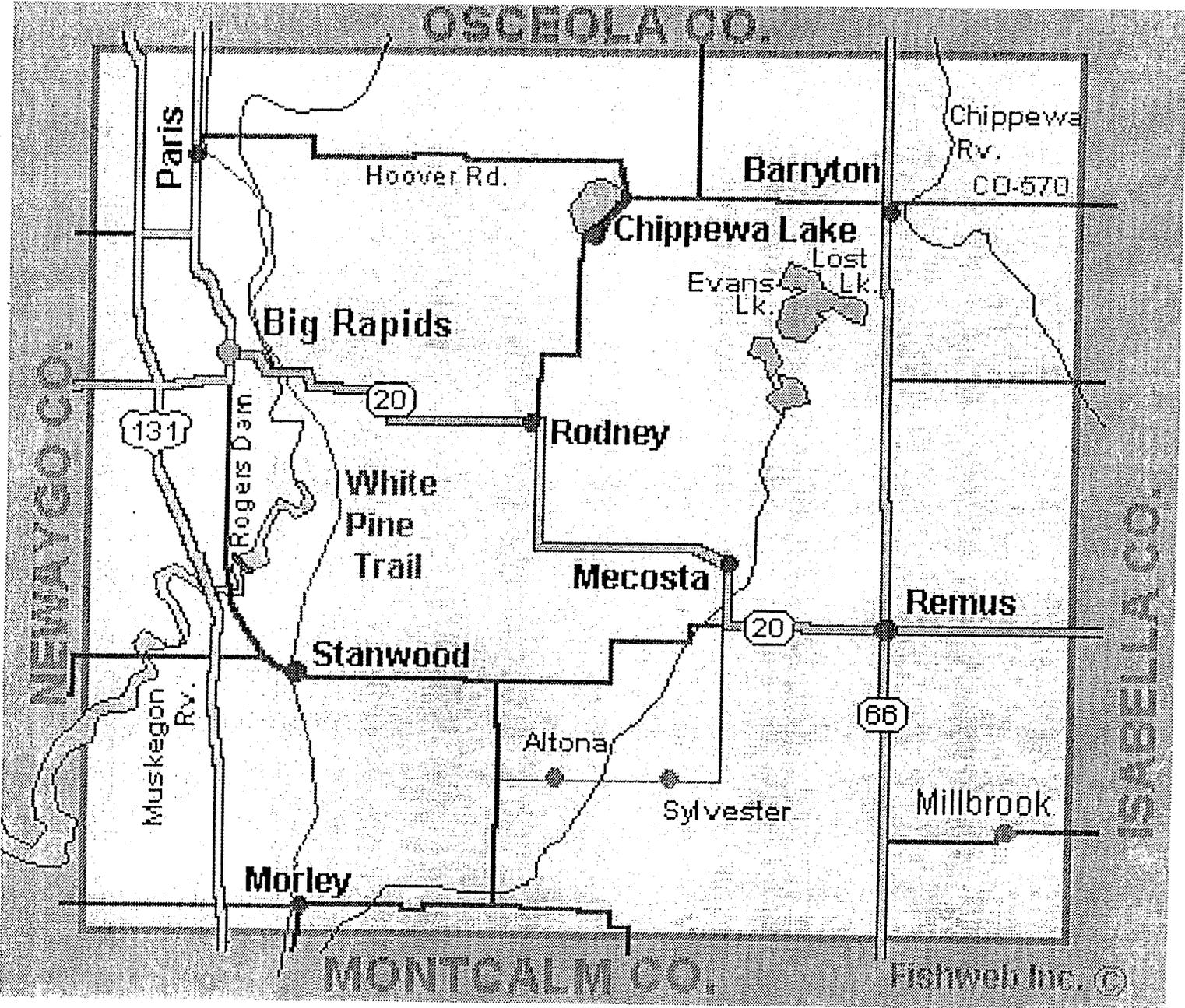
# Mecosta County, Michigan Land Use/Land Cover, 1983



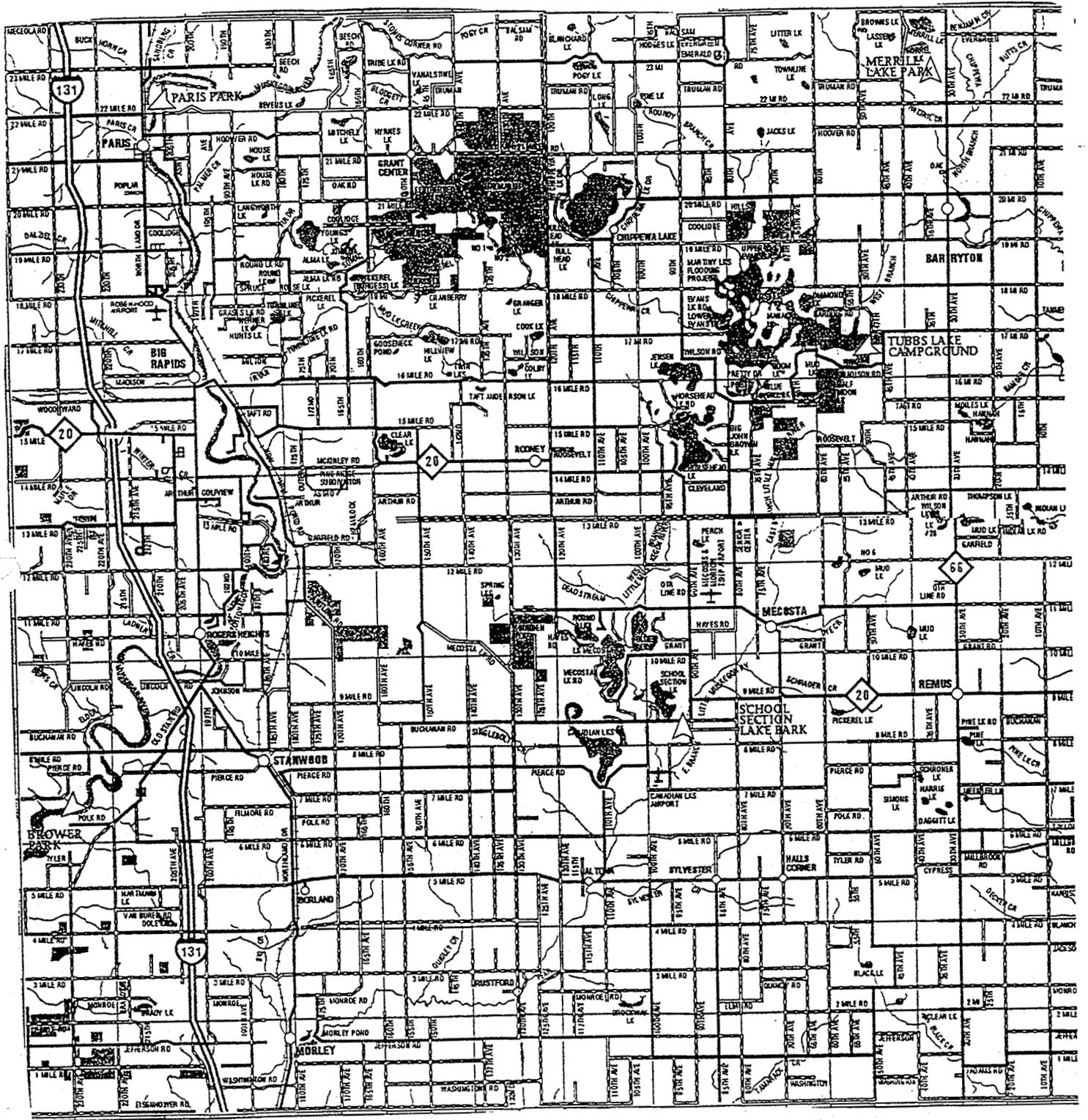
- Railroads
- Roads
- County Road
- Freeway Ramp
- State/Federal Hwy
- Street
- Two-Track
- Streams
- Perennial Stream
- Utility Lines
- Pipeline
- Power Line
- Land Use/Land Cover
- Agricultural Land
- Barren Land
- Forest Land
- Rangeland
- Urban or Built-Up Land
- Water
- Wetland

Sources:  
Land Use/Land Cover Information: USGS  
Base Map: MIRS  
Map prepared 8/11/2000--drt

# Road Map of Mecos County (1)



# Road Map of Mecosta County (2)



FACILITY DESCRIPTIONS

Facility Type: Type II Solid Waste Landfill

Facility Name: Northern Oaks Recycling and Disposal Facility

County: Clare Location: Town: 19N Range: 4W Section(s): 32

Map identifying location included in Attachment Section:  Yes  No

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

Public  Private

Owner: Waste Management of Michigan, Inc.

Operating Status (check)

Waste Types Received (check all that apply)

open

residential

closed

commercial

licensed

industrial

unlicensed

construction & demolition

construction permit

contaminated soils

open, but closure

special wastes \*

pending

other: \_\_\_\_\_

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

WWTP filter cake, sludge

Site Size:

Total area of facility property:	160	acres
Total area sited for use:	76	acres
Total area permitted:	76	acres
Operating:	19	acres
Not excavated:	57	acres

Current capacity:	8,755,100	yds <sup>3</sup>
Estimated lifetime:	43	years
Estimated days open per year:	260	days
Estimated yearly disposal volume:	409,000	yds <sup>3</sup>

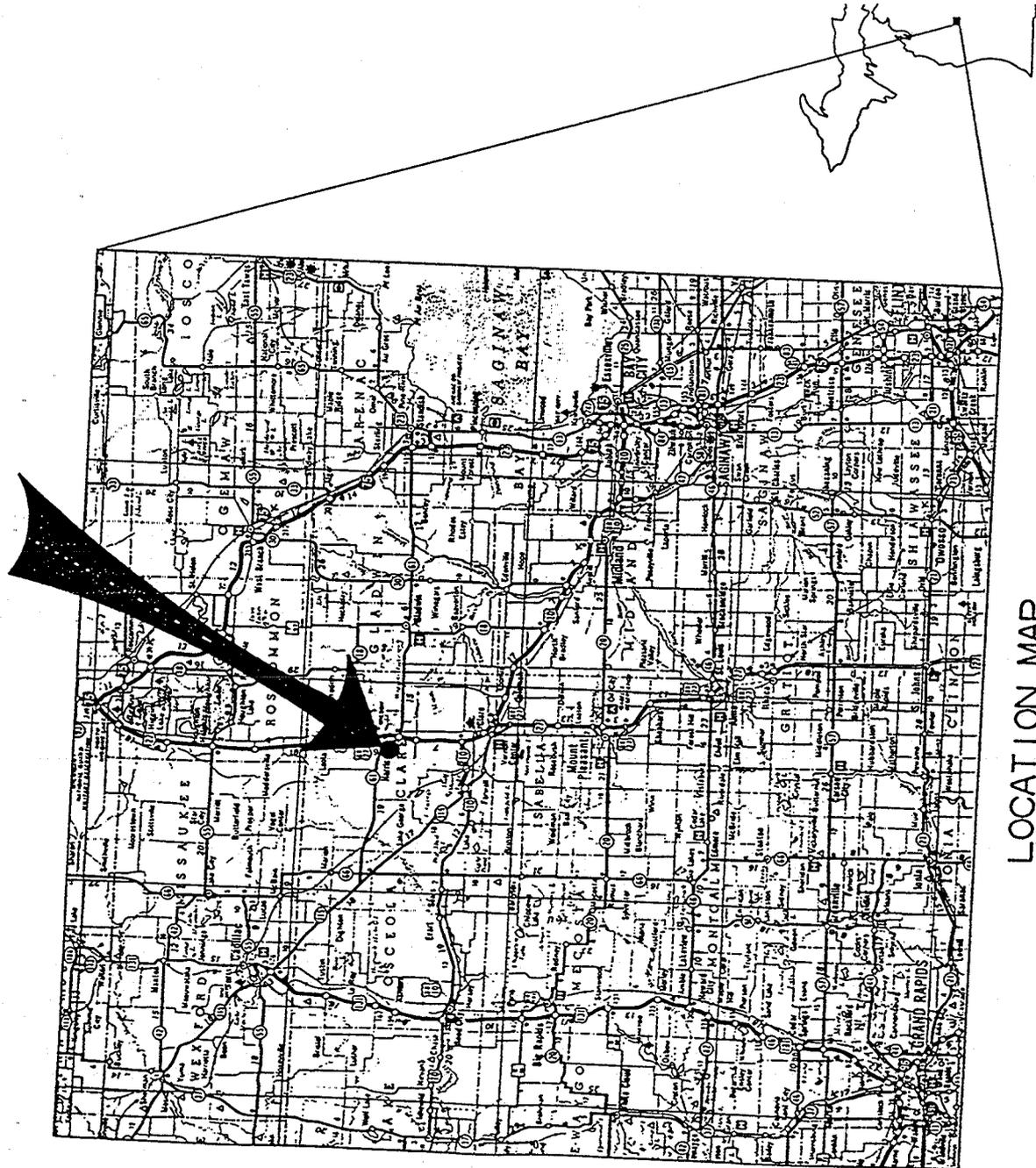
(if applicable)

Annual energy production:

    Landfill gas recovery projects: N/A megawatts

    Waste-to-energy incinerators: N/A megawatts

SITE LOCATION

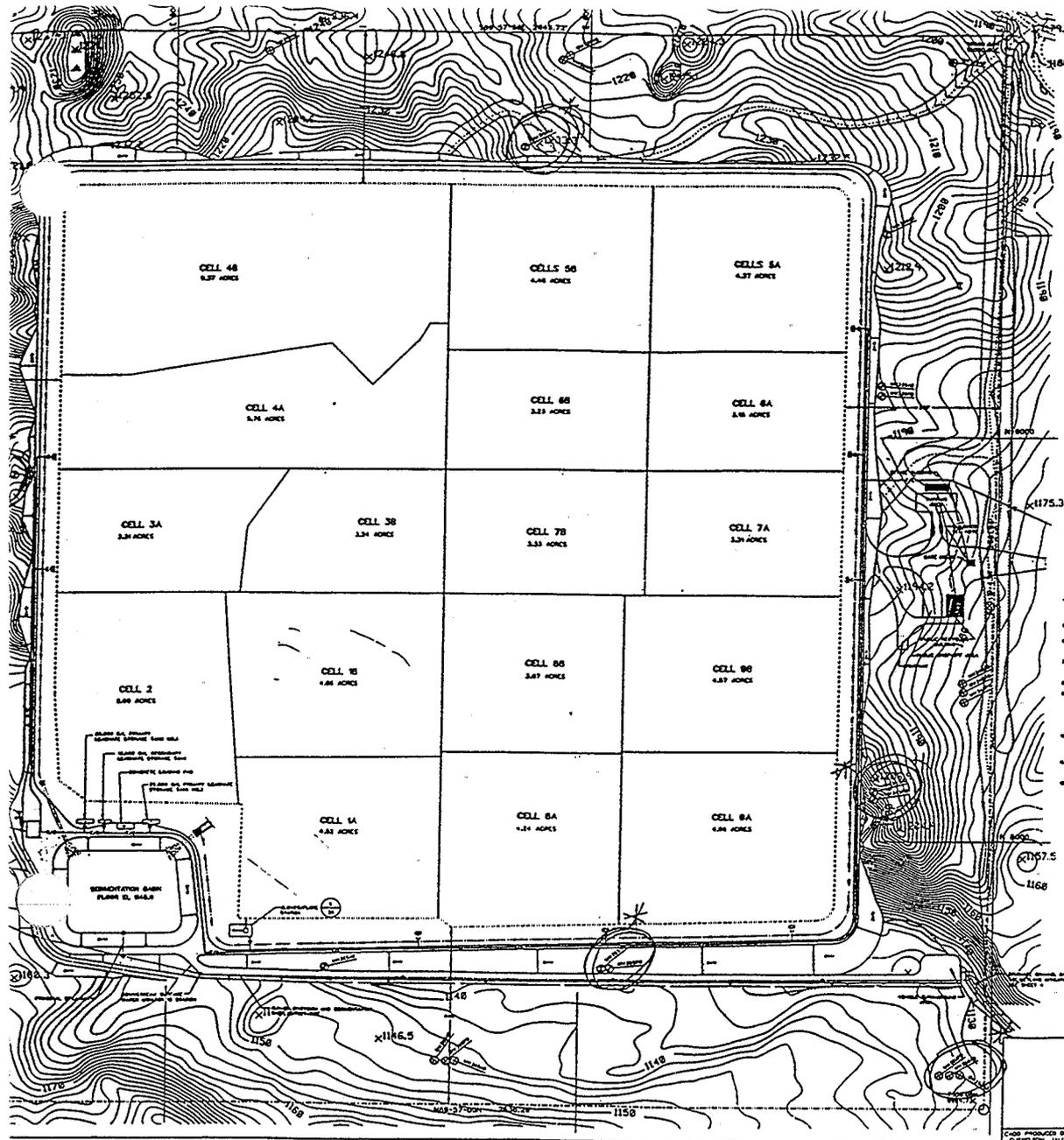


MICHIGAN

0 5 10 15 20 25

SCALE IN MILES

LOCATION MAP



1247 LEGEND

- PROPERTY LINE
- LINE OF MATEC
- CELL BOUNDARY
- PROPOSED CELL BOUNDARY
- PROPOSED BRONCHIAL EXHAUSTION CHANNEL
- SEWER MAIN
- PROPOSED GROUNDWATER MONITORING WELL
- EXISTING GROUNDWATER MONITORING WELL
- EXISTING GROUNDWATER EXHAUSTION WELL
- PROPOSED TELEPHONE/ELECTRIC UTILITY
- PROPOSED ELECTRIC UTILITY (10' BANK ON SIDEWALK NEAR POLE)
- STANDARD SYMBOL

**DESCRIPTION OF PHASED DEVELOPMENT**

1. THE PROPERTY WILL BE DEVELOPED IN PHASES AS SHOWN ON THE CELL DIVISION SHEET.
2. PHASE 1 DEVELOPMENT WILL BE THE DEVELOPMENT OF THE FOLLOWING CELLS AND BE CONSTRUCTED:
  - a. AS A PRELIMINARY STEP THE GROUND IMPROVEMENT SHALL BE PERFORMED IN PHASE 1 DEVELOPMENT TO BRING A GRADE ABOVE THE EXISTING GROUND.
  - b. EXISTING BRONCHIAL EXHAUSTION CHANNELS SHALL BE REMOVED AND REPLACED BY NEW CHANNELS.
  - c. EXISTING SEWER MAINS SHALL BE REPLACED BY NEW MAINS.
  - d. EXISTING GROUNDWATER MONITORING WELLS SHALL BE REPLACED BY NEW WELLS.
  - e. EXISTING GROUNDWATER EXHAUSTION WELLS SHALL BE REPLACED BY NEW WELLS.
3. PHASE 2 DEVELOPMENT WILL BE THE DEVELOPMENT OF THE FOLLOWING CELLS AND BE CONSTRUCTED:
  - a. AS A PRELIMINARY STEP THE GROUND IMPROVEMENT SHALL BE PERFORMED IN PHASE 2 DEVELOPMENT TO BRING A GRADE ABOVE THE EXISTING GROUND.
  - b. EXISTING BRONCHIAL EXHAUSTION CHANNELS SHALL BE REMOVED AND REPLACED BY NEW CHANNELS.
  - c. EXISTING SEWER MAINS SHALL BE REPLACED BY NEW MAINS.
  - d. EXISTING GROUNDWATER MONITORING WELLS SHALL BE REPLACED BY NEW WELLS.
  - e. EXISTING GROUNDWATER EXHAUSTION WELLS SHALL BE REPLACED BY NEW WELLS.
4. PHASE 3 DEVELOPMENT WILL BE THE DEVELOPMENT OF THE FOLLOWING CELLS AND BE CONSTRUCTED:
  - a. AS A PRELIMINARY STEP THE GROUND IMPROVEMENT SHALL BE PERFORMED IN PHASE 3 DEVELOPMENT TO BRING A GRADE ABOVE THE EXISTING GROUND.
  - b. EXISTING BRONCHIAL EXHAUSTION CHANNELS SHALL BE REMOVED AND REPLACED BY NEW CHANNELS.
  - c. EXISTING SEWER MAINS SHALL BE REPLACED BY NEW MAINS.
  - d. EXISTING GROUNDWATER MONITORING WELLS SHALL BE REPLACED BY NEW WELLS.
  - e. EXISTING GROUNDWATER EXHAUSTION WELLS SHALL BE REPLACED BY NEW WELLS.

**SOLID WASTE DISPOSAL AREA AND VOLUME**

TOTAL SOLID WASTE DISPOSAL AREA: 17.5 ACRES  
 TOTAL SOLID WASTE DISPOSAL VOLUME: 1,343,000 CYD

**NOTES**

1. EXTENSION OF EXISTING GROUNDWATER MONITORING WELLS CORRESPONDING TO GROUNDWATER MONITORING PLAN AND ALSO EXISTING TELEPHONE/ELECTRIC UTILITY IN THE HYDROGEOLOGIC INVESTIGATION AND ON DRAWINGS 1, 2, AND 3.
2. FACILITY IS INTEGRATED TO HAVE A WATER SUPPLY WELL FOR INDUSTRIAL WATER AND ONE FOR OFFICE WATER SYSTEM FOR THE OFFICE BUILDING AND POTENTIALLY THE SEWERTREATMENT BUILDING.

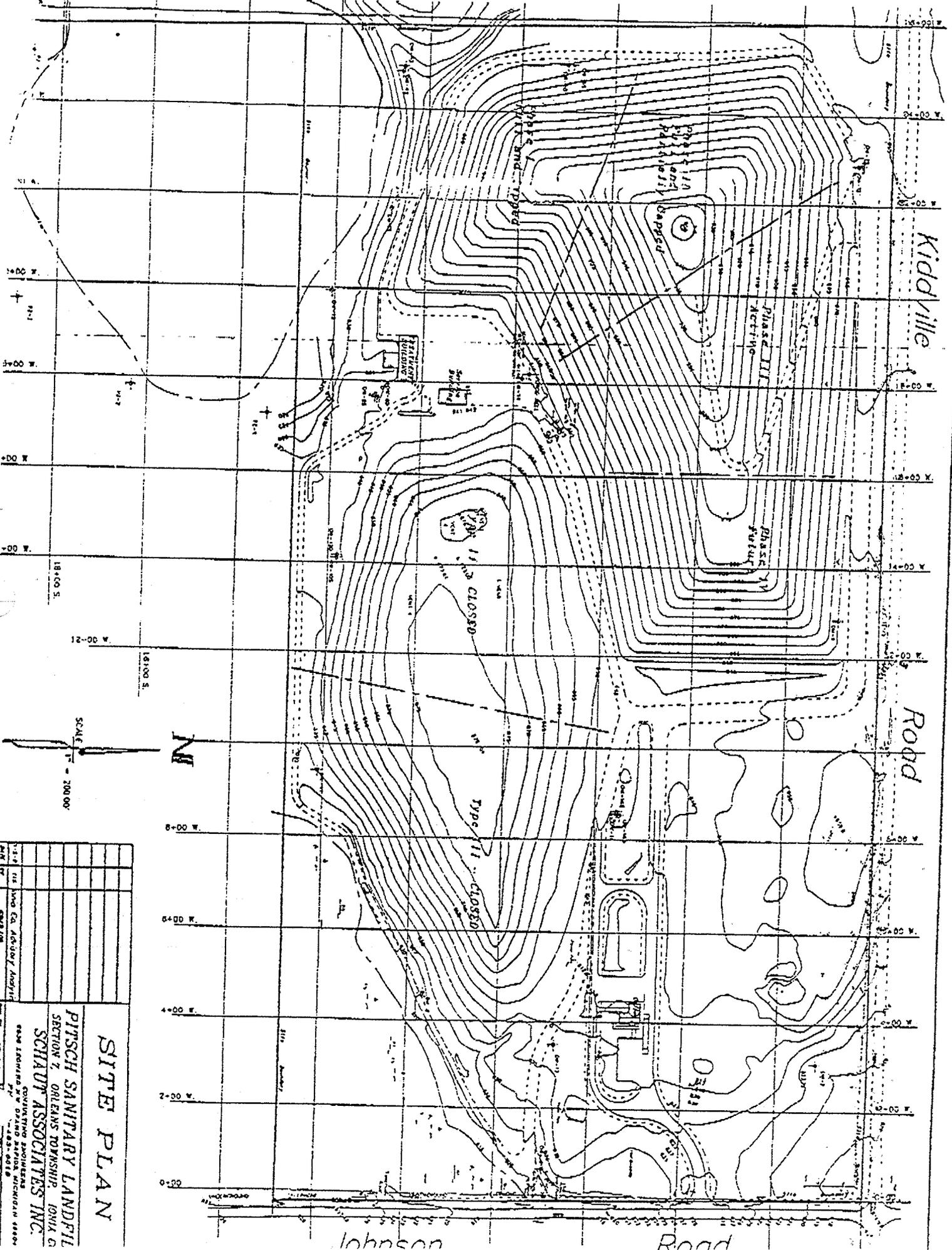
NO.	DATE	REVISION	DESCRIPTION	BY	CHECKED BY
1	11-15-88	REVISED	REVISED EXHAUSTION CHANNELS	J.M.	J.M.
2	11-15-88	REVISED	REVISED EXHAUSTION CHANNELS	J.M.	J.M.
3	11-15-88	REVISED	REVISED EXHAUSTION CHANNELS	J.M.	J.M.

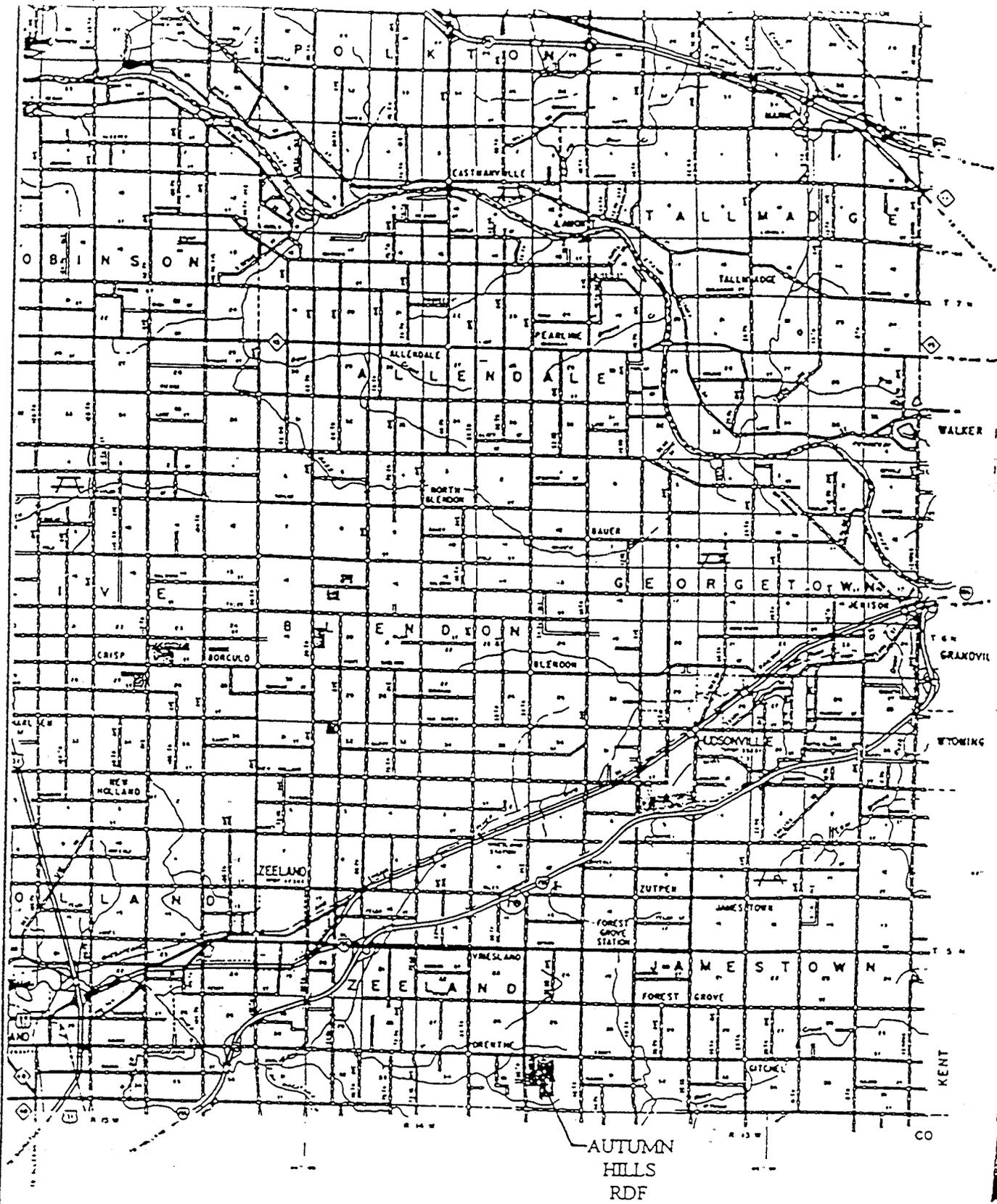
PROJECT NO.	DATE	PROJECT	SOUTHERN GATE RECYCLING AND REPAIR FACILITY
DESIGNER	DATE	PROJECT	SOUTHERN GATE RECYCLING AND REPAIR FACILITY
CHECKED BY	DATE	PROJECT	SOUTHERN GATE RECYCLING AND REPAIR FACILITY
DATE	DATE	PROJECT	SOUTHERN GATE RECYCLING AND REPAIR FACILITY
DATE	DATE	PROJECT	SOUTHERN GATE RECYCLING AND REPAIR FACILITY

Waste Management of North America, Inc.	SHEET 3 OF 22
HIGHEST RECYCLING GROUP	OF DRAWING NO.
	3



PITSCHE SANITARY LANDFILL	
SECTION 7, ORLEANS TOWNSHIP, IOWA CO	
SCHAUT ASSOCIATES, INC.	
CONSULTING ENGINEERS	
8348 LINDBERG, N.W. ORLAND PARK, ILLINOIS 60450	
TEL: 414-483-0010	
FAX: 414-483-0010	
DATE: 2/26/93	
BY: KEB	
CHECKED BY: [ ]	
DATE: [ ]	
SCALE: 1" = 200.00'	
N	
Kiddville	
Rodd	
Johnson	
Road	
Phase III Active	
Phase II CLOSED	
Phase I CLOSED	
PITSCHE BUILDING	
18+00 S.	
16+00 S.	
14+00 S.	
12+00 S.	
10+00 S.	
8+00 S.	
6+00 S.	
4+00 S.	
2+00 S.	
0+00 S.	
18+00 W.	
16+00 W.	
14+00 W.	
12+00 W.	
10+00 W.	
8+00 W.	
6+00 W.	
4+00 W.	
2+00 W.	
0+00 W.	



**LEGEND**

-  - HAUL ROUTE
-  - SITE

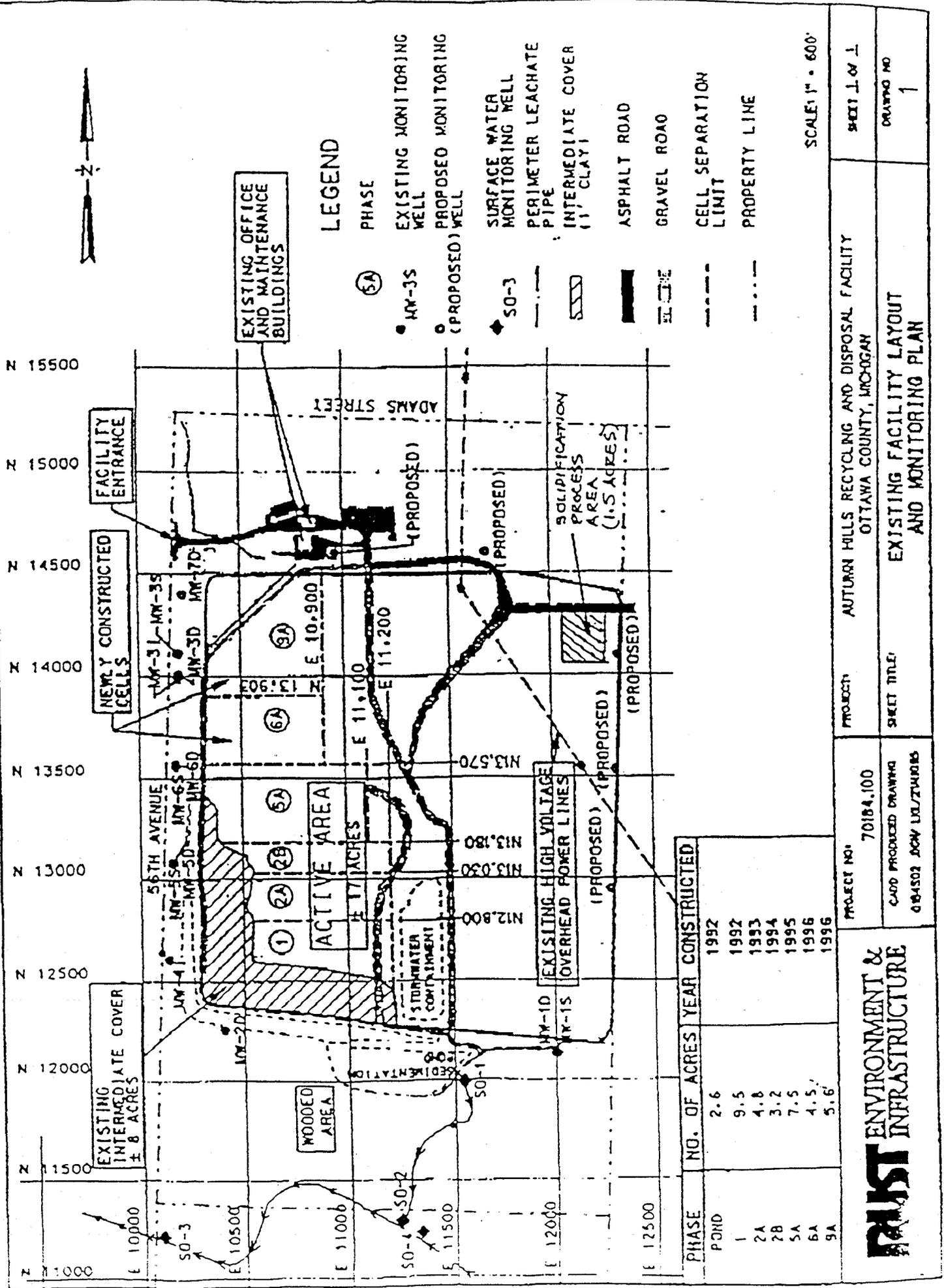
MAP SOURCE PART OF MUCC OTTAWA COUNTY MICHIGAN MAP

0' .5' 1'  
  
 SCALE: 1"=1 MILE

**RUST** ENVIRONMENT & INFRASTRUCTURE

PROJECT: AUTUMN HILLS RECYCLING AND DISPOSAL FACILITY	
PROJECT NO. 74525.100	FIGURE 2 - 1
ENVIRONMENTAL ASSESSMENT REPORT PERMIT MODIFICATIONS	
SITE LOCATION MAP	

\\AE\IAUC\ec\outhills\70784\0184s02.dgn  
 PLOT DATE: 06-1996 16:02



PHASE	NO. OF ACRES	YEAR CONSTRUCTED
POND	2.6	1992
1	9.5	1992
2A	4.8	1993
2B	3.2	1994
5A	7.5	1995
6A	4.5	1996
9A	5.6	1996

**PROJECT NO:** 70184.100  
**PROJECT:** AUTUMN HILLS RECYCLING AND DISPOSAL FACILITY  
 OTTAWA COUNTY, MICHIGAN

**SCALE:** 1" = 600'

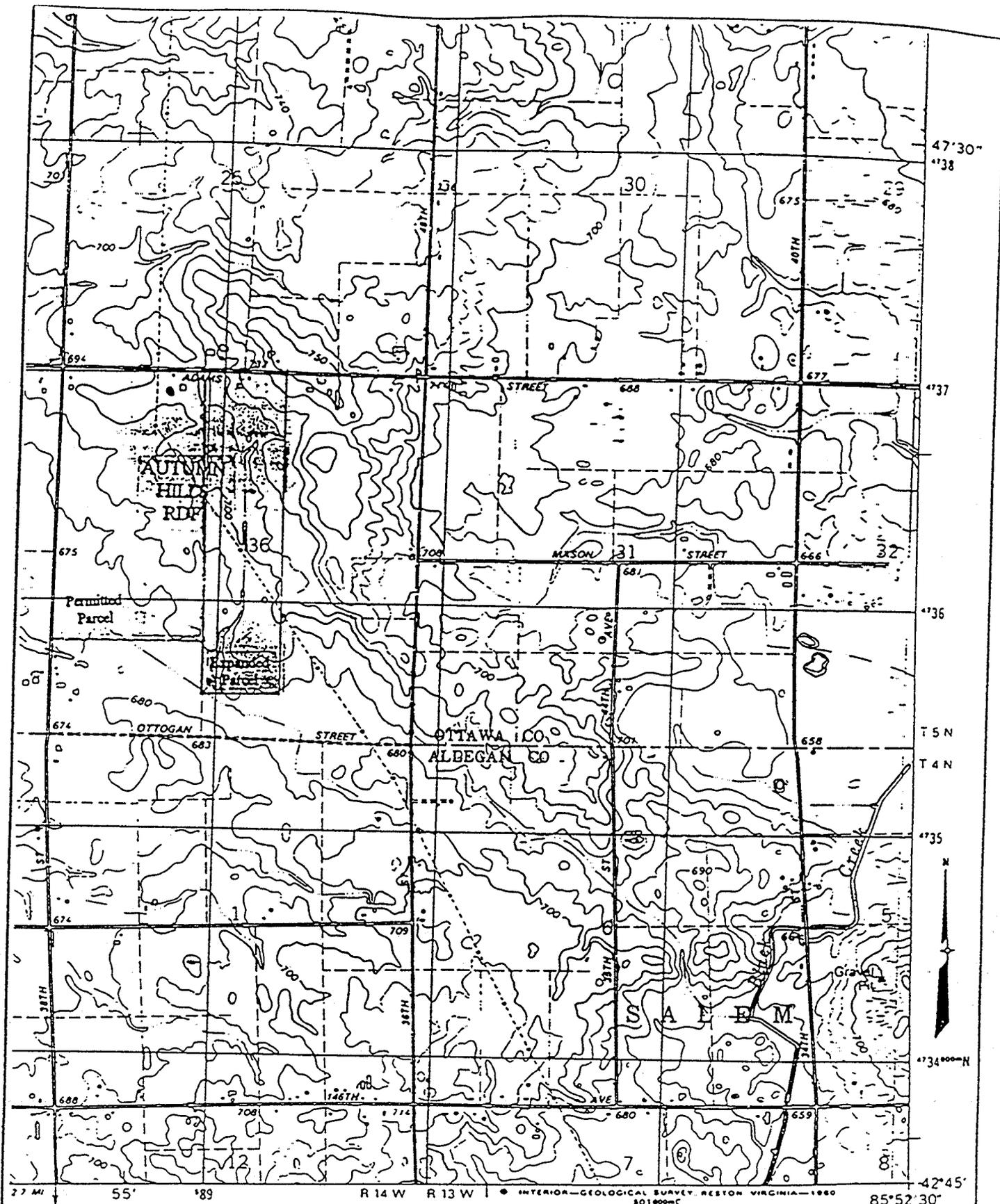
**PROJECT NO:** 0184S02 DCW L12/14/1996  
**PROJECT:** AUTUMN HILLS RECYCLING AND DISPOSAL FACILITY  
 OTTAWA COUNTY, MICHIGAN

**SHEET TITLE:** EXISTING FACILITY LAYOUT AND MONITORING PLAN

**SHEET NO:** 1

**DRAWING NO:** 1





**LEGEND**

- SITE

MAP SOURCE: PART OF U.S.G.S HUDSONVILLE WEST QUADRANGLE MAP

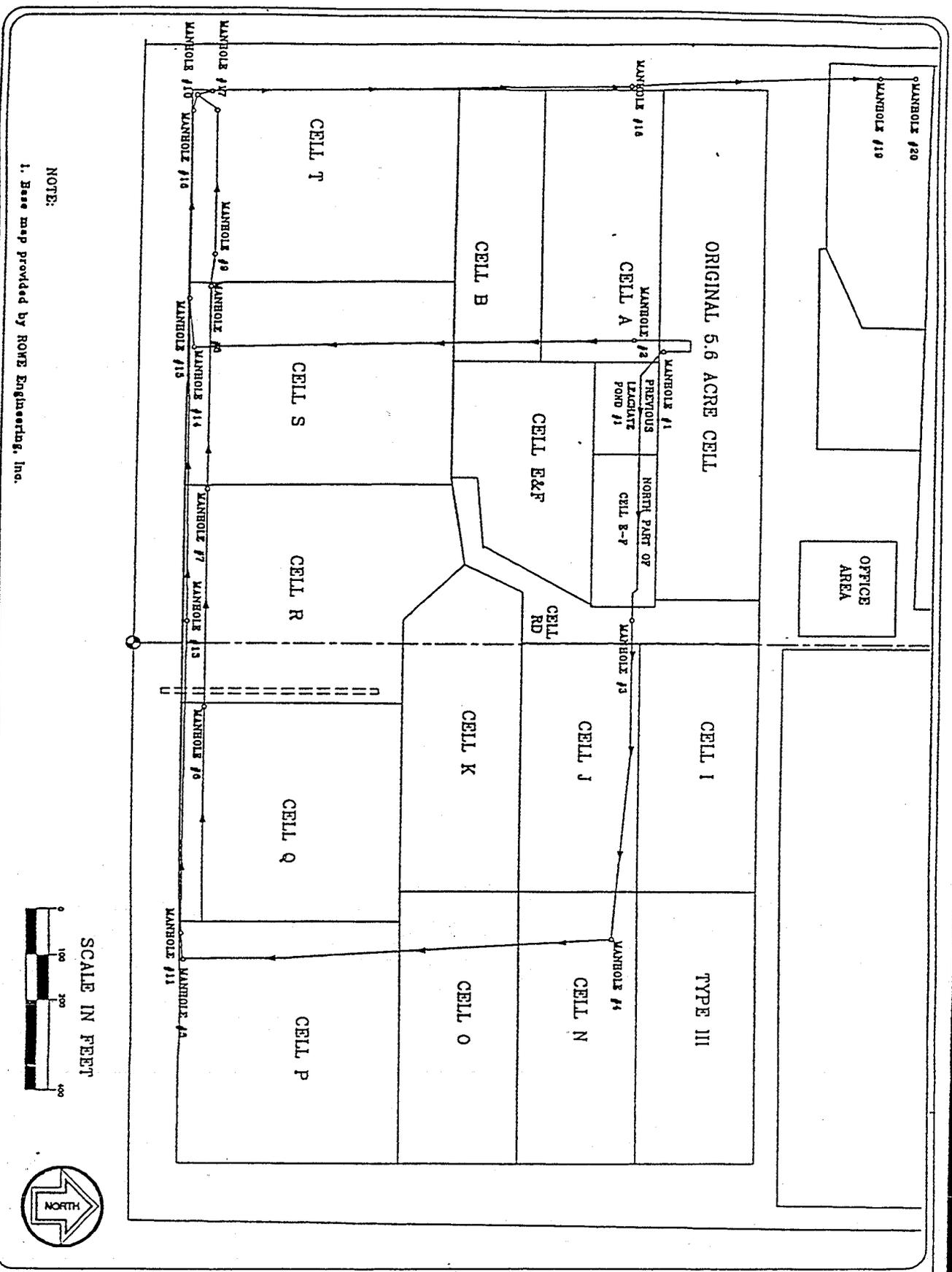
0' .5' 1'

SCALE: 1" = 2000'

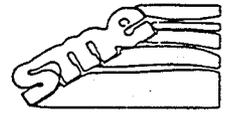
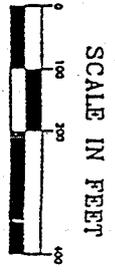
**RUST** ENVIRONMENT & INFRASTRUCTURE

PROJECT: AUTUMN HILLS RECYCLING AND DISPOSAL FACILITY	
PROJECT NO.: 74525.100	FIGURE 2 - 2
ENVIRONMENTAL ASSESSMENT REPORT PERMIT MODIFICATIONS	
<b>SITE TOPOGRAPHY</b>	





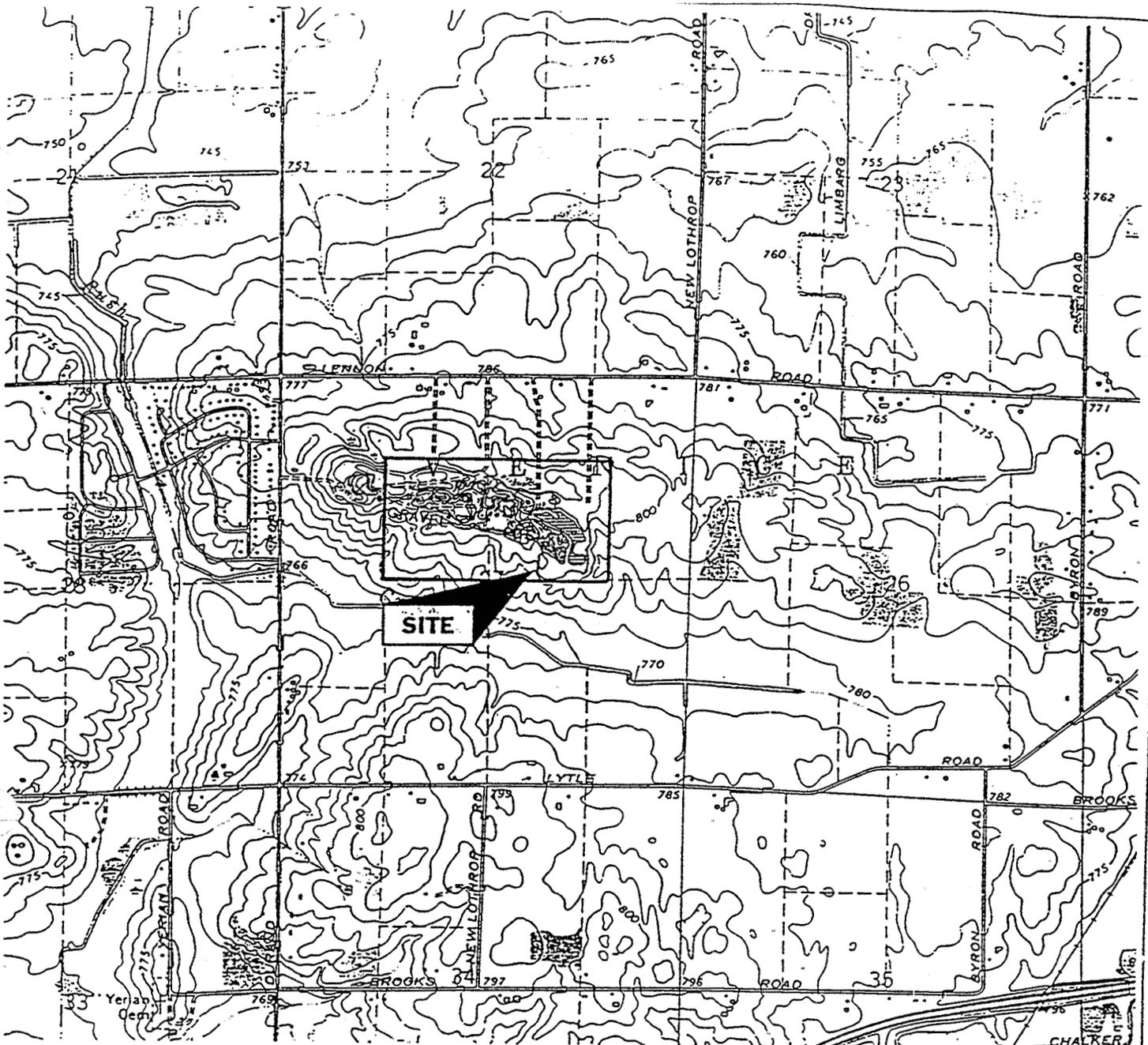
NOTE:  
1. Base map provided by ROWE Engineering, Inc.



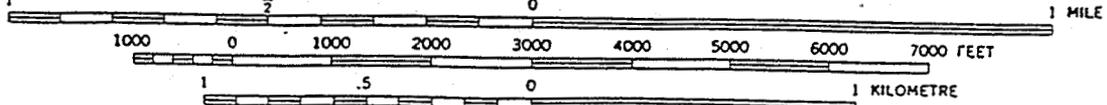
DATE: 4-18-97  
 SCALE: 1" = 200'  
 DRAFTER: ARR/AM  
 JOB: PE 27575

SITE PLAN  
 VENICE PARK RECYCLING AND DISPOSAL FACILITY  
 9536 LENNON ROAD  
 LENNON, MICHIGAN

Figure No. 2



SCALE 1:24 000



CONTOUR INTERVAL 5 FEET  
 NATIONAL GEODETIC VERTICAL DATUM OF 1929  
**DURAND QUADRANGLE**  
 MICHIGAN  
 7.5 MINUTE SERIES (TOPOGRAPHIC)

1969  
 PHOTOREVISED 1975  
 AMS 4269 IV NW-SERIES V862



QUADRANGLE LOCATION



Date 4-17-97	BAY CITY KALAMAZOO LANSING PLYMOUTH TOLEDO	 soil and materials engineers, inc	SITE LOCATION MAP VENICE PARK RECYCLING & DISPOSAL FACILITY 9536 LENNON ROAD LENNON, MICHIGAN
Prepared By ARR			
Scale AS SHOWN			
Job PE 27575			

DWG NO. 27575-01

Figure No. 1

ATTACHMENTS

**Inter-County Agreements**

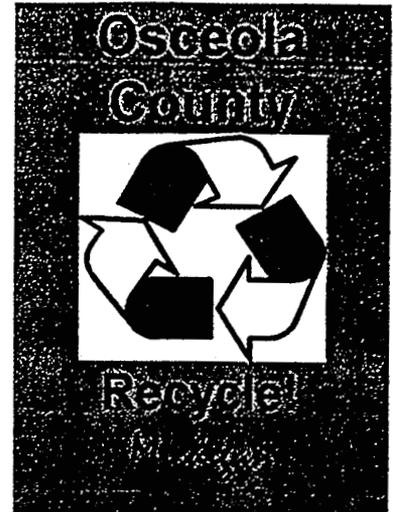
Copies of Inter-County Agreements with other counties (if any).

# Osceola County

## Solid Waste Management

## Planning Committee

301 W. Upton, Reed City, MI 49677  
(616) 832-3261



March 24, 1998

TO: JOHN McCABE  
DEQ WASTE MANAGEMENT DIVISION  
BOX 30241  
LANSING, MI 48909

RE: County Solid Waste Management Plan Up-Date, Inter-County  
Coordination.

The Solid Waste Management Planning Committee of Osceola County, is engaged in updating the County's Solid Waste Management Plan. The Committee has selected short-term and long-term management systems that incorporate the existing licensed Type II landfills. All of which are under private ownership, as a first option to dispose of Osceola County's solid waste.

On behalf of the Board of Commissioners and the Solid Waste Management Planning Committee. We would like to request that Mecosta County consider, for inclusion in your County's solid waste management plan. Acceptances of Osceola County's waste, at disposal facilities located in Mecosta County, in the event that disposal facilities now being used and planned to be used are closed or closed to our use.

In return, Osceola County will accept solid waste from Mecosta County if your present disposal facilities are no longer available for your use. According to the requirements of Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, Department of Environmental Quality Waste Management Division.

Inter-county disposal of solid waste must be recognized by both County plans. Therefore, we are requesting that Mecosta County accept, on the contingency that disposal facilities we are now using are closed or closed to our use. Osceola County generates approximately 50 tons of solid waste per day.

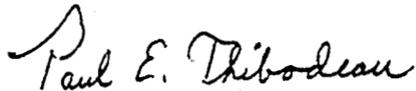
We would also like to request. That consideration is given Osceola County's willingness to participate, in planning for a regional disposal facility. Also the resource reduction and recovery program, which are also significant components of our overall solid waste management plan.

Should you be willing to consider the proposed reciprocal arrangement. A specific Reciprocal Agreement will be drawn and approved by both the counties, which must be non-discriminating to any person or area.

We would greatly appreciate a written indication of your willingness or unwillingness, to consider and/or accept the above described proposal as soon as possible. We respectfully thank you for your consideration.

Should you have any questions or comments regarding this proposal, please feel free to contact me at (616)832-2572.

Sincerely,



Paul E. Thibodeau, Chairman  
Osceola County  
Solid Waste Management Planning Committee

**SOLID WASTE RECIPROCAL AGREEMENT**

WHEREAS, Osceola County and Mecosta County are responsible for the collection and disposal of their own respective solid waste, and both are Michigan counties subject to the regulations and planning requirements of Section 11539a of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act (1994 P.A. 451) as amended, and,

WHEREAS, The Act requires that both the receiving and sending county's solid waste management plan include statements as to where solid waste will be sent to and/or will be received from, before wastes can be transported between counties.

THEREFORE, BE IT RESOLVED, Osceola County will agree to accept solid waste from Mecosta County for primary and/or standby backup disposal in solid waste facilities within its borders so long as they are open to the public and users will not be subject to discrimination in services or tipping fee price structure.

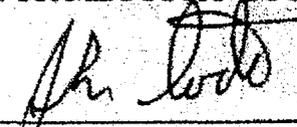
BE IT FURTHER RESOLVED, THAT Mecosta County will agree to accept solid waste from Osceola County for primary and/or standby backup disposal in solid waste facilities within its borders so long as they are open to the public and users will not be subject to discrimination in services or tipping fee price structure.

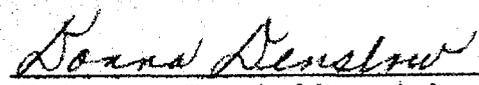
BE IT FURTHER RESOLVED, THAT This agreement may be terminated by either County upon receipt of a mutually agreeable notice adequate to provide time for another method of primary disposal. If adequate notice is not mutually agreed to, then adequate notice shall be two years.

BE IT FURTHER RESOLVED, THAT both Counties agree to assume their own and separate liability, and assume financial responsibility for payment of any damages, fines, etc., at their own cost, as would exist if this agreement had never been entered into.

FOR MECOSTA COUNTY

FOR OSCEOLA COUNTY

  
\_\_\_\_\_  
Chairman, Board of Commissioners

  
\_\_\_\_\_  
Chairperson, Board of Commissioners

Date: 8-20-98

Date: July 30, 1998

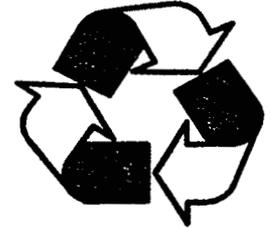
**CERTIFICATION:**

I, Ruth L. Hess, being the Clerk of Mecosta County and having a seal, do hereby certify that the Mecosta County Board of Commissioners did approve the above motion at their regular meeting held on the 20th day of August, 1998.

# Osceola County

## Solid Waste Management

### Planning Committee



**Recycle!**

*Michigan*

301 W. Upton, Reed City, MI 49677  
(616) 832-3261

September 8, 1998

James E. Johnson  
Solid Waste Management Unit  
Solid Waste Program Section  
Waste Management Division

Dear Mr. Johnson

Enclosed is a copy of the signed Reciprocal Agreement with Mecosta County, also a copy of the Facility Description as you requested in your letter dated August 27, 1998. I believe you may also find copies of these in the files of John McCabe as they have been forwarded previously.

If we can be of any further assistance please advise.

Very truly yours,

A handwritten signature in cursive script that reads "Paul E. Thibodeau".

Paul E. Thibodeau, Chairman  
Osceola County Solid Waste Planning Committee

**RECEIVED**

SEP 11 1998

Waste management  
Division

ATTACHMENTS

**Special Conditions**

Special conditions affecting import or export of solid waste.

IONIA COUNTY  
SOLID WASTE EXPORT CONDITION

Ionia County's Solid Waste Management System includes Pitsch Sanitary Landfill, the Household Hazardous Waste Program, Recycling Drop-offs, and public education programs. This system takes a comprehensive approach to the management of solid waste in the county.

Ionia County has listed the following counties with which agreements have been discussed to accept Ionia County's waste on a reciprocating basis.

The counties are as follows: Allegan, Barry, Kent, Clinton, Montcalm, Eaton, Gratiot, Ingham, Berrien, Branch, Calhoun, Cass, Clare, Jackson, Kalamazoo, Mason, Mecosta, Midland, Muskegon, Newaygo, Oceana, Ottawa, Osceola, Saginaw, Shiawassee, St. Joseph, Van Buren, Wexford.

Although Ionia County does not require reciprocal agreements with other counties, the County does require import/export agreements.

IONIA COUNTY  
SOLID WASTE IMPORT CONDITION

The plan establishes limits on the amounts and origins of waste authorized for disposal in Ionia County, including a controlling overall maximum amount of 100,000 tons annually.

Ionia County has named the following counties with which agreements could be negotiated to accept waste generated in those counties on a reciprocal basis.

According to the amendment to the Plan of 1990, this Plan authorizes solid waste for disposal in Ionia County on a reciprocal basis from one or more of the following counties if an agreement is executed between Ionia County and the sending county.

Ionia County would be responsible for assuring that any agreements executed do not jeopardize its own disposal capacity. Ionia County waste is to receive preference if space becomes scarce.

The counties are as follows: Allegan, Barry, Kent, Clinton, Montcalm, Eaton, Gratiot, Ingham, Berrien, Branch, Calhoun, Cass, Clare, Jackson, Kalamazoo, Mason, Mecosta, Midland, Muskegon, Newaygo, Oceana, Osceola, Ottawa, Saginaw, Shiawassee, St. Joseph, Van Buren, Wexford.

Ionia County's first and main concern is to provide long term disposal for the residents of the County (20 years). In the event, as determined solely by the Board of Commissioners, that long term disposal is not being met, any agreements for importation with the above mentioned counties will be reviewed or not renewed.

Eaton and Gratiot counties are listed as reciprocal counties without any further formal agreements required by Ionia County. Intercounty agreements may be executed with the above listed counties if the waste-exporting counties require additional documentation. Authorized quantities may be negotiated by agreement upon that county's request for need.

Authorized quantities were derived from the latest amendment to the 1990 plan and the annual report from Pitsch Landfill.

Although Ionia County does not require reciprocal agreements with other counties, the County does require some kind of import/export agreements with other counties.

**Kent County  
Solid Waste Import Condition\***

Kent County has had an integrated solid waste management system which includes the Kent County Waste-to-Energy Facility, the South Kent Landfill, the North Kent Transfer Station, the Material Recovery Facility, the Household Hazardous Waste Program, perpetual care for closed landfills, and public education programs. Through this integrated system, Kent County takes a comprehensive approach to the management of solid waste within the County.

As part of the County's integrated system, the 1990 Solid Waste Management Plan permitted a limited amount of waste generated from several surrounding counties to be imported into Kent County and disposed of in the South Kent Landfill. These counties were Allegan, Ottawa, Montcalm, Ionia and Barry.

This Plan will recognize the following counties as importers of solid waste to Kent County facilities: Allegan, Ottawa, Montcalm, Ionia, Barry, Calhoun, Clinton, Eaton, Gratiot, Kalamazoo, Mecosta, Newaygo, Oceana and Van Buren.

Kent County's first and main concern is to provide long term disposal for the residents of the County (20 years). In the event, as determined solely by the Board of Public Works, that long term disposal is not being met, any contracts for importation with the above mentioned counties will be reviewed or not renewed.

**Kent County  
Solid Waste Export Condition\***

Kent County has had an integrated solid waste management system which includes the Kent County Waste-to-Energy Facility, the South Kent Landfill, the North Kent Transfer Station, the Material Recovery Facility, the Household Hazardous Waste Program, perpetual care for closed landfills, and public education programs. Through this integrated system, Kent County takes a comprehensive approach to the management of solid waste within the County.

As part of the County's integrated system, the 1990 Solid Waste Management Plan permitted a limited amount of waste generated within Kent County to be disposed of in certain adjoining counties. This limited disposal in other counties was established to allow such disposal for waste generated in outlying areas of the County where disposal facilities in adjoining counties much closer and convenient for haulers serving customers in those areas than facilities within Kent County (e.g., South Kent Landfill, North Kent Transfer Station).

In 1997, the County entered into contracts (effective January 1, 1998) with waste haulers operating in the six Cities (Grand Rapids, Wyoming, East Grand Rapids, Grandville, Kentwood and Walker) which require the haulers to deliver all combustible waste in the six Cities to the Waste-to-Energy Facility. As part of the contract, the County agreed that haulers entering into these contracts would be permitted to deliver solid waste generated outside of the six Cities to other counties without restriction. By agreeing to this contract provision (which was a necessary compromise to reach agreement with the haulers), the County has reduced part of its programs under the integrated system approach. Therefore, if these contracts expire without renewal or are otherwise no longer in place, the County intends to restore the fully integrated system which existed prior to these contracts as outlined in the 1990 Plan.

Accordingly, except as provided below, the export tonnage limitations under this Plan shall be limited to tonnages described in the 1990 Plan. They are:

County	Tonnage (Daily)	Tonnage (Annual)
Ottawa	300	109,500
Ionia	100	36,500
Barry	12	4,380
Montcalm	20	7,300

However, while the hauler contracts described above remain in effect, the export tonnage authorizations in Table 2-A shall apply. \*\*The specific amounts of the export tonnage authorized

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\* Authorized conditions, Table 2-A

\*\* A flow Chart describing such export tonnage authorizations is attached

daily and annually in Table 2-A are based on the filed 1996-1997 "Solid Waste Landfill Waste Receipt Reports" filed with the Michigan Department of Environmental Quality. It is understood and intended until the next update of the Plan that the daily and annual export tonnage authorized may increase or decrease from year to year (without a Plan amendment) based on economic and other factors.

In the event contracts are not renewed, or in the event the contracts are terminated by the County pursuant to termination provisions in the contracts, the Board of Public Works will give thirty (30) days notice to all municipalities and licensed waste haulers within the county of the date on which the export tonnage limitations described above from the 1990 Plan shall become effective in place of the export authorizations shown in Table 2-A.