



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



DAN WYANT
DIRECTOR

October 7, 2013

Mr. Gene Thornton, Chairperson
Montmorency County Board of Commissioners
P.O. Box 399
Milo, Michigan 48647

Dear Mr. Thornton:

The locally approved amendment to the Montmorency/Oscoda County Solid Waste Management Plan (Plan Amendment) received by the Department of Environmental Quality (DEQ) on June 17, 2013, is hereby approved with modification. The Plan Amendment required some modifications that were sent to both Montmorency and Oscoda Counties on September 6, 2013. The modification approvals were received from Montmorency and Oscoda Counties on September 16, 2013.

The Plan Amendment creates the following changes:

- Adds the Advantis Renewable Energy, LLC Waste-to-Energy Facility and Processing Plant to the Database: Solid Waste Disposal Area and adds a facility description to the inventory in the Plan.
- Updated a name change for the McGregor Type B Transfer Station in the facility description inventory.
- Adds a facility description for the Luzerne Express Type B Transfer Station.
- Adds Lewiston Septic Service as an existing Type B Transfer Station and adds the facility to the "Type B Transfer Facility" category of the Selected System, Solid Waste Disposal Areas section of the Plan.
- Updates the Future Import Volume Authorization Table to include additional counties authorized for 100% primary basis to all disposal areas located within the County.
- Adds the Advantis Renewable Energy, LLC Waste-to-Energy Facility to the "Other" category of the Selected System, Solid Waste Disposal Areas section of the Plan.
- Adds the Advantis Renewable Energy, LLC Waste-to-Energy Facility and Processing Plant and Montmorency-Oscoda-Alpena Sanitary Landfill to the "Authorized Disposal Area Types" section for the siting review procedures.
- Adds Advantis Renewable Energy, LLC Waste-to-Energy Facility and Processing Plant as the responsible party for the category "Energy Production".
- Deletes the "Special Condition" for the import and export of solid waste found in Attachment E of the Plan.

The DEQ would like to thank Montmorency and Oscoda Counties for its efforts in addressing its solid waste management issues. If you have any questions, please contact Ms. Rhonda S. Oyer, Chief, Sustainable Materials Management Unit, Solid Waste Section, Office of Waste Management and Radiological Protection, at 517-284-6591; oyerr@michigan.gov; or DEQ, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,



Elizabeth M. Browne, Chief
Office of Waste Management and
Radiological Protection
517-284-6551

cc: Senator John Moolenaar
Representative Greg Mac Master
Ms. Diane Rekowski, Northeast Michigan Council of Governments
Mr. Dan Wyant, Director, DEQ
Mr. Jim Sygo, Deputy Director, DEQ
Ms. Maggie Datema, Legislative Affairs, DEQ
Mr. Phil Roycraft, DEQ
Ms. Rhonda S. Oyer, DEQ
Mr. Steve Sliver/Ms. Christina Miller, DEQ\Montmorency/Oscoda County File



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



DAN WYANT
DIRECTOR

October 7, 2013

Mr. John A. Kischnick, Chairperson
Oscoda County Board of Commissioners
P.O. Box 399
Milo, Michigan 48647

Dear Mr. Kischnick:

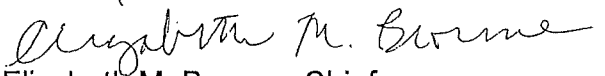
The locally approved amendment to the Montmorency/Oscoda County Solid Waste Management Plan (Plan Amendment) received by the Department of Environmental Quality (DEQ) on June 17, 2013, is hereby approved with modification. The Plan Amendment required some modifications that were sent to both Montmorency and Oscoda Counties on September 6, 2013. The modification approvals were received from Montmorency and Oscoda Counties on September 16, 2013.

The Plan Amendment creates the following changes:

- Adds the Advantis Renewable Energy, LLC Waste-to-Energy Facility and Processing Plant to the Database: Solid Waste Disposal Area and adds a facility description to the inventory in the Plan.
- Updated a name change for the McGregor Type B Transfer Station in the facility description inventory.
- Adds a facility description for the Luzerne Express Type B Transfer Station.
- Adds Lewiston Septic Service as an existing Type B Transfer Station and adds the facility to the "Type B Transfer Facility" category of the Selected System, Solid Waste Disposal Areas section of the Plan.
- Updates the Future Import Volume Authorization Table to include additional counties authorized for 100% primary basis to all disposal areas located within the County.
- Adds the Advantis Renewable Energy, LLC Waste-to-Energy Facility to the "Other" category of the Selected System, Solid Waste Disposal Areas section of the Plan.
- Adds the Advantis Renewable Energy, LLC Waste-to-Energy Facility and Processing Plant and Montmorency-Oscoda-Alpena Sanitary Landfill to the "Authorized Disposal Area Types" section for the siting review procedures.
- Adds Advantis Renewable Energy, LLC Waste-to-Energy Facility and Processing Plant as the responsible party for the category "Energy Production".
- Deletes the "Special Condition" for the import and export of solid waste found in Attachment E of the Plan.

The DEQ would like to thank Montmorency and Oscoda Counties for its efforts in addressing its solid waste management issues. If you have any questions, please contact Ms. Rhonda S. Oyer, Chief, Sustainable Materials Management Unit, Solid Waste Section, Office of Waste Management and Radiological Protection, at 517-284-6591; oyerr@michigan.gov; or DEQ, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,



Elizabeth M. Browne, Chief
Office of Waste Management and
Radiological Protection
517-284-6551

cc: Senator John Moolenaar
Representative Greg Mac Master
Ms. Diane Rekowski, Northeast Michigan Council of Governments
Mr. Dan Wyant, Director, DEQ
Mr. Jim Sygo, Deputy Director, DEQ
Ms. Maggie Datema, Legislative Affairs, DEQ
Mr. Phil Roycraft, DEQ
Ms. Rhonda S. Oyer, DEQ
Mr. Steve Sliver/Ms. Christina Miller, DEQ/Montmorency/Oscoda County File



Northeast Michigan Council of Governments

PO Box 457
80 Livingston Blvd Suite U-108
Gaylord, MI 49734

Voice: 989.705.3730
Fax: 989.705.3729
www.nemcog.org

September 12, 2013

Ms. Christina Miller
Sustainable Materials Management Unit
Solid Waste Section Office of Waste management and Office Radiological Protection
MI Department of Environmental Quality
PO Box 30241
Lansing, MI 48909-7741

Dear Ms. Christina:

As a follow-up to your letter dated September 6, 2013, the Oscoda and Montmorency County Board of Commissioners met and approved the modifications to the amendment.

Enclosed please find the letters from each of the County Board of Commissioners and the modified pages that were referenced in your letter.

Please do not hesitate to contact me should you have any further concerns.

Sincerely,

Diane Rekowski
Executive Director

Regional
Cooperation
Since
1968

Alcona • Alpena • Cheboygan • Crawford • Emmet • Montmorency • Oscoda • Otsego • Presque Isle

An
Equal
Opportunity
Employer

Gene Thornton
Albert LaFleche
Stacy Carroll
Rick Ferguson
Daryl Peterson



12265 M-32
P.O. Box 789
Atlanta, MI. 49709
Phone- 989-785-8000
Fax- 989-785-8001

debbie@montboc.com

Montmorency County Board of Commissioners

September 11, 2013

Ms. Christina Miller
Sustainable Materials Management Unit
Solid Waste Section Office of Waste management and Office Radiological Protection
MI Department of Environmental Quality
PO Box 30241
Lansing, MI 48909-7741

Dear Ms. Christina Miller:

As a follow-up to your letter dated September 6, 2013, the Montmorency County Board of Commissioners respectfully requests the MI Department of Environmental Quality (DEQ) to issue approval of the Montmorency-Oscoda Solid Waste Plan Amendment with the modifications requested by the DEQ. The modifications include


- Page 10 Data Base: Solid Waste Disposal Areas
Add Advantis Renewable Energy LLC Waste-to Energy Facility and Processing Plant to the description narrative and map. Add Lewiston Septic Service, Type B Transfer Station.
- Page 34 Selected System: Current import Volume Authorization of Solid Waste, Table 1A Add amended page to include 100% primary disposal for all counties identified in the table. The Facility Name column should be left blank to allow waste to go any facility within Montmorency or Oscoda County without restriction . The following language should be deleted, "The MOASWMA reserves the right to establish waste hauler allocations in to the landfill".
- Page 106 Attachment E, Special Conditions

The following language should be deleted from the Plan, "Special Conditions affecting import or export of solid waste. *O = Other conditions for current import volume authorization of solid waste. The MOSL Authority reserves the right to establish waste hauler allocations into the landfill".

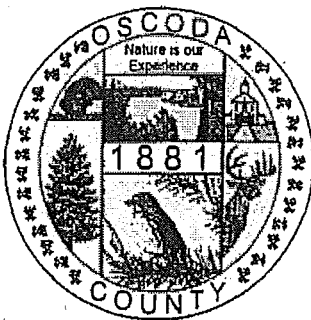
The Montmorency County Board of Commissioners met in a regular session on September 11, 2013 and reviewed the recommended changes to the Amendment to the Montmorency-Oscoda County Solid Waste Plan. The Board concurred with the recommendations.

Thank you for your attention to this request. If you should have any further questions or concerns, please contact Diane Rekowski, Designated Planning Agency at 989-705-3734.

Sincerely,

 9/11/13

Gene Thornton, Chairperson
Montmorency County Commissioners



COUNTY OF OSCODA

Board of Commissioners
Telephone (989) 826-1130
Fax Line (989) 826-1173

Oscoda County Courthouse Annex 105 S. Court Street, P.O. Box 399, Mio, MI 48647

September 10, 2013

Ms. Christina Miller
Sustainable Materials Management Unit
Solid Waste Section Office of Waste management and Office Radiological Protection
MI Department of Environmental Quality
PO Box 30241
Lansing, MI 48909-7741

Dear Ms. Christina Miller:

As a follow-up to your letter dated September 6, 2013, the Oscoda County Board of Commissioners respectfully requests the MI Department of Environmental Quality (DEQ) to issue approval of the Montmorency-Oscoda Solid Waste Plan Amendment with the modifications requested by the DEQ. The modifications include

- Page 10 Data Base: Solid Waste Disposal Areas
Add Advantis Renewable Energy LLC Waste-to Energy Facility and Processing Plant to the description narrative and map. Add Lewiston Septic Service, Type B Transfer Station.
- Page 34 Selected System: Current import Volume Authorization of Solid Waste, Table 1A Add amended page to include 100% primary disposal for all counties identified in the table. The Facility Name column should be left blank to allow waste to go any facility within Montmorency or Oscoda County without restriction. The following language should be deleted, "The MOASWMA reserves the right to establish waste hauler allocations in to the landfill".

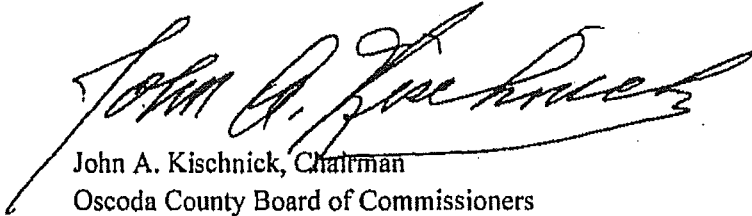
Attachment E, Special Conditions

The following language should be deleted from the Plan, "Special Conditions affecting import or export of solid waste. *O = Other conditions for current import volume authorization of solid waste. The MOSL Authority reserves the right to establish waste hauler allocations into the landfill".

The Oscoda County Board of Commissioners met in a regular session on September 10, 2013 and reviewed the recommended changes to the Amendment to the Montmorency-Oscoda County Solid Waste Plan. The Board concurred with the recommendations.

Thank you for your attention to this request. If you should have any further questions or concerns, please contact Diane Rekowski, Designated Planning Agency at 989-705-3734.

Sincerely,

A handwritten signature in black ink, appearing to read "John A. Kischnick", is written over a horizontal line. The signature is fluid and cursive.

John A. Kischnick, Chairman

Oscoda County Board of Commissioners

DATA BASE-SOLID WASTE DISPOSAL AREAS

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.

Solid waste generated in Montmorency or Oscoda Counties is disposed of at the Montmorency-Oscoda-Alpena Sanitary(MOASWMA) Landfill in Montmorency County.

Advantis Renewable Energy, LLC Waste-to- Energy and Processing Plant, to be located at the landfill site will process all solid waste received at the landfill and separate for recycling glass and metals. All other combustible solid waste will be gasified in the waste-to -energy facility.

Contingency disposal has been and will continue to be at the Waste Management Inc. Landfill in Waters, Michigan. The Elk Run Landfill located outside Onaway in Presque Isle County, has not been utilized by the counties and will not be used as a disposal site in the next planning period.

Type B transfer stations are to be utilized by many of the townships in the counties and are located in the following townships: Albert, Montmorency, Clinton, Comins, Elmer, Greenwood; privately owned: Luzerne Express Transfer Station, and McGregor's Transfer Site (formerly Big Creek Township transfer station).

See Attachment C for a map showing the location of transfer stations, disposal sites and relative distances to disposal sites.

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 ¹	Authorized Quantity/ Daily	Authorized Quantity/ Annual	Authorized Conditions
Montmorency	Alpena		100 %	100 %	P
Montmorency	Montmorency		100 %	100 %	P
Montmorency	Oscoda		100 %	100 %	P
Montmorency	Emmet		100 %	100 %	P
Montmorency	Cheboygan		100 %	100 %	P
Montmorency	Presque Isle		100 %	100 %	P
Montmorency	Alcona		100 %	100 %	P
Montmorency	Iosco		100 %	100 %	P
Montmorency	Ogemaw		100 %	100 %	P
Montmorency	Roscommon		100 %	100 %	P
Montmorency	Crawford		100 %	100 %	P
Montmorency	Otsego		100 %	100 %	P
Montmorency	Kalkaska		100 %	100 %	P
Montmorency	Grand Traverse		100 %	100 %	P
Montmorency	Benzie		100 %	100 %	P
Montmorency	Leelanau		100 %	100 %	P
Montmorency	Antrim		100 %	100 %	P
Montmorency	Charlevoix		100 %	100 %	P
Montmorency	Schoolcraft		100 %	100 %	P

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

SELECTED SYSTEM

SOLID WASTE DISPOSAL AREAS

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

Type II Landfill:

Montmorency-Oscoda-Alpena Sanitary Landfill

Waste Management, Inc Landfill in Waters, MI
(Contingency Only)

Type III Landfill:

Incinerator:

Waste-to-Energy Incinerator:

Type A Transfer Facility:

Type B Transfer Facility:

Albert Township
Montmorency Township
Clinton Township
Comins Township
Greenwood Township
Luzerne Express Transfer
McGregor Transfer
Elmer Township

Processing Plant:

Proposed (multi-county) Material
Recovery Facility in Alpena County

Waste Piles:

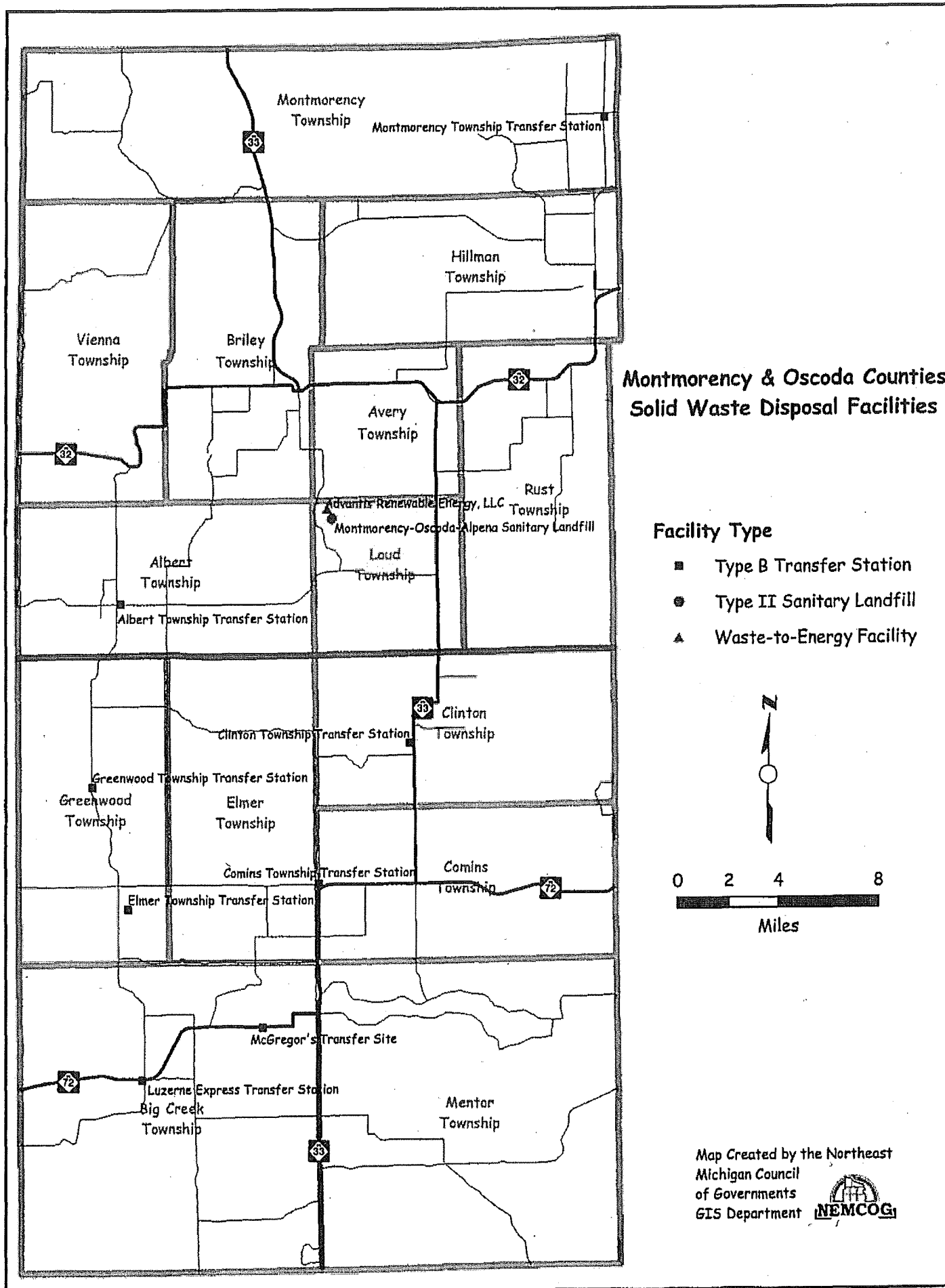
Other:

Advantis Renewable Energy, LLC.
Waste-to-Energy and Processing Plant

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.

PAGE LEFT INTENTIONALLY BLANK

Deleted per 2013 Amendment





RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



DAN WYANT
DIRECTOR

September 6, 2013

Ms. Diane Rekowski, Executive Director
Northeast Michigan Council of Governments
P.O. Box 457
Gaylord, Michigan 49734

Dear Ms. Rekowski:

SUBJECT: Montmorency/Oscoda County Solid Waste Management Plan Amendment

This letter is a follow-up to our conversation on August 20, 2013, regarding resolving approval issues and clarifying the intent of the Montmorency/Oscoda County (County) Solid Waste Management Plan Amendment (Amendment). In order for the Department of Environmental Quality (DEQ) to recommend approval, the following modifications to the Amendment need to be made:

The following changes should be made to the Attachments of the Amendment:

In an effort to bring all existing exempt transfer stations into compliance the following changes are required: [Page 10, fifth paragraph](#), the Lewiston Septic Service Type B transfer station, located at 3084 Clinton Drive, Lewiston, Michigan, should be included as an existing transfer station. Additionally, [this facility should be added to page 38](#), Solid Waste Disposal Areas under the Type B Transfer Facility section.

Per our conversation, the [amendment to page 35, Table 1-B](#), Future Import Volume Authorization of Solid Waste Contingent on New Facilities Being Sited should actually be made to page 34, Table 1-A, Current Import Volume Authorization of Solid Waste instead. It was the County's intention to allow for the updated import authorizations identified in Table 1-B regardless of a new facility being developed.

Additionally, it was the intent of this Amendment to allow waste to be imported at all disposal facilities that are currently developed and/or will be developed in the future. Therefore, a facility name should not be identified in the Import Volume Authorization table. The name "[Advantis](#)" should be deleted from the table and this column should be left blank in order to be open to all disposal facilities located within both Montmorency and Oscoda counties. Based upon the deletion of the name "Advantis", the double asterisk "**" referencing, "[Advantis Renewable Energy, LLC., Waste-to-Energy and Processing Plant](#)," should be deleted as well because the name of the facility would no longer be included.

Further, the asterisks "**" found on this table under the "Authorized Quantity/Daily" column were supposed to be a continuation of the "100%" authorized quantity allowed. Therefore, to clarify the counties' intent, the [asterisks under this column should be changed to "100%"](#).

Furthermore, the "C" contingency, identified under the "Authorized Conditions" column does not apply. It was the Counties' intent to authorize all of the counties identified in the table on a primary basis. Therefore, there is no need for contingency disposal to be identified because disposal is already authorized on a primary basis. To alleviate any confusion, the "C" should be deleted from the table in the Amendment.

Additionally, a single asterisk "**" also referenced the following language, "The MOASWMA reserves the right to establish waste hauler allocations into the landfill." However, based upon the fact that all of the counties identified in the table are authorized for 100% primary disposal, there is no need to establish waste hauler allocations. Therefore, this language should be deleted from the Amendment.

Based upon the Counties intent, as stated above, and to alleviate any additional confusion, page 106 of the Plan, Attachment E, Special Conditions should be deleted from the Plan because it no longer applies.

Based upon the changes stated above, the language in the cover letter of the Amendment should be as follows:

Page 10 Data Base: Solid Waste Disposal Areas
Add Advantis Renewable Energy, LLC Waste-to-Energy Facility and Processing Plant to the description narrative and map. Add Lewiston Septic Service, Type B Transfer Station

Page 34 Selected System: Current Import Volume Authorization of Solid Waste, Table 1A
Add amended page to include 100% primary disposal for all counties identified in the table. The Facility Name column should be left blank to allow waste to go to any facility within Montmorency or Oscoda County without restriction. The following language should be deleted, "The MOASWMA reserves the right to establish waste hauler allocations into the landfill."

Page 106 Attachment E, Special Conditions
The following language should be deleted from the Plan, "Special Conditions affecting import or export of solid waste. *O = Other conditions for current import volume authorization of solid waste. The MOSL Authority reserves the right to establish waste hauler allocations into the landfill."

If the County agrees with the DEQ administratively making these modifications to the Amendment as part of the DEQ's approval of the Amendment, please have a party who is authorized to act on behalf of the County provide a letter to the DEQ indicating the County's agreement with these changes and requesting that the DEQ issue its approval with these modifications. An example of such a letter is enclosed.

The DEQ believes that the Amendment is not approvable without the modifications outlined above. If the County decides not to agree to have the DEQ make the changes as part of the approval process, the Office of Waste Management and Radiological Protection will recommend that the DEQ not approve the Amendment as written.

If you have any questions concerning this matter, please contact me at the telephone number below; via e-mail at millerc1@michigan.gov; or DEQ, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,



Christina Miller
Sustainable Materials Management Unit
Solid Waste Section
Office of Waste Management and
Radiological Protection
517-284-6587

Enclosure

cc: Mr. Steve Sliver, DEQ
Ms. Rhonda Oyler, DEQ
Montmorency/Oscoda County File



**GRAND TRAVERSE COUNTY
BOARD OF COMMISSIONERS**

400 BOARDMAN AVENUE
TRAVERSE CITY, MI 49684-2577
(616) 922-4797 • FAX (616) 922-4427

COPY

August 31, 1999

Mr. Seth Phillips, Chief
Solid Waste Management Unit
Waste Management Division
Department of Environmental Quality
P O Box 30473
Lansing, MI 48909-7973

Dear Mr. Phillips:

As a follow up to your letter dated August 17, 1999, the Grand Traverse County Board of Commissioners respectfully requests the DEQ to issue your approval of the Grand Traverse County Solid Waste Management Plan.

Grand Traverse County Board of Commissioners met in regular session on August 25, 1999, and reviewed the two recommended changes to the Grand Traverse County Solid Waste Management Plan. The Board of Commissioners concurred with your recommendation of approving the two (2) changes as follows:

- (1) Insert into siting criterion H on Page III-48 the words "Active Work Area" and delete the words "and respective parcel(s)" so that the first sentence would read "No part of the active work area of the site is located within..."
- (2) Strike the reference to Whitewater Township's Landfill Disposal Areas Ordinance and provide statement of why DEQ cannot approve its enforcement.

Thank you for your attention to this request. If there is anything further you require, please contact Randy Smith, Solid Waste Coordinator at 231/922-4576 or myself.

Sincerely,

Richard A. Crowe, Chair
Board of Commissioners
Grand Traverse County

Enclosure: Copy of 8/25/99 Board Minutes

cc: Randy Smith, SW Coordinator



RECYCLED PAPER



Northeast Michigan Council of Governments

PO Box 457
80 Livingston Blvd Suite U-108
Gaylord, MI 49734

Voice: 989.705.3730
Fax: 989.705.3729
www.nemcog.org

June 13, 2013

Christina Miller
Solid Waste Planning, Reporting and Surcharge Coordinator
Office of Waste Management and Radiological Protection
Department of Environmental Quality
Constitution Hall, Atrium North
525 West Allegan
Lansing, MI 48933

Dear Christina,

Please find enclosed the amendment to the Montmorency Oscoda Counties Solids Waste Management Plan of 1999. Amended pages and documentation of the planning process is enclosed.

As always, please feel free to contact me with any questions or concerns that you may have.

Sincerely,

Diane Rekowski
Executive Director

Regional
Cooperation
Since
1968

RECEIVED
JUN 17 2013
DEQ-RMD

Alcona * Alpena * Cheboygan * Crawford * Emmet * Montmorency * Oscoda * Otsego * Presque Isle

An
Equal
Opportunity
Employer

**2013 SOLID WASTE PLAN AMENDMENT
TO THE
MONTMORENCY COUNTY AND OSCODA COUNTY SOLID WASTE
MANAGEMENT PLAN**

June 12, 2013

The purpose of the amendment is to include and authorize automatic consistency of the Advantis Renewable Energy, LLC Waste-to-Energy Facility and Processing Plant to the Montmorency County and Oscoda County Joint Solid Waste Management Plan of 1999. In addition, Big Creek Township Type B Transfer Station was corrected to McGregor Transfer Station, and Luzerne Express Type B Transfer Stations was added to the Plan. The sections amended are as follows:

- | | | |
|----------|---|--|
| Page 10 | Data Base: Solid Waste Disposal Areas
Add Advantis Renewable Energy, LLC Waste-to-Energy Facility and Processing Plant to descriptive narrative and map. | |
| Page 11A | Data Base- Facility Descriptions
Add Advantis Renewable Energy, LLC Waste-to-Energy Facility and Processing Plant to Inventory of Facility Descriptions and map. | |
| Page 20 | Facility Description: Change of Name from Big Creek Township to McGregor Type B Transfer station. | |
| Page 20A | Facility Description: Add: Luzerne Express Type B Transfer Station. | RETURN TO
MODIFICATION
LETTER |
| Page 35 | Selected System: Future Import Volume Authorizations
Add amended page to include all counties on page 34 and add Advantis Renewable energy, LLC Waste -to-Energy Facility and Processing Plant as facility name. | |
| Page 38 | Selected System
Change Big Creek Township Transfer Facility to McGregor Type B Transfer Facility; Add: Luzerne Express Type B Transfer Station; add Advantis Renewable Energy, LLC Waste-to-Energy Facility and Processing Plant to <i>Other</i> . | |
| Page 39A | Selected System: Facility Description: Add: Advantis Renewable Energy, LLC Waste-to Energy Facility and Processing Plant. | |
| Page 47 | Selected System: Facility Descriptions: Change Big Creek Township Type B Transfer to McGregor Transfer Station. | |
| Page 47A | Selected System: Add: Luzerne Express Type B Transfer Station. | |

Page 64 Siting Review Procedures
Add section on: Facilities Included in Plan: Add Advantis Renewable Energy, LLC., Waste-to Energy Facility and Processing Plant, and MOASWMA Type II Sanitary Landfill.

Page 67/68 Energy Production: Add: Add Advantis Renewable Energy, LLC., Waste-to Energy Facility and Processing Plant.

Revised pages and amended map of solid waste facilities and disposal areas are attached.

ATTACHMENTS

DATA BASE-SOLID WASTE DISPOSAL AREAS

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.

Solid waste generated in Montmorency or Oscoda Counties is disposed of at the Montmorency-Oscoda-Alpena Sanitary(MOASWMA) Landfill in Montmorency County.

Advantis Renewable Energy, LLC Waste-to- Energy and Processing Plant, to be located at the landfill site will process all solid waste received at the landfill and separate for recycling glass and metals. All other combustible solid waste will be gasified in the waste-to -energy facility.

Contingency disposal has been and will continue to be at the Waste Management Inc. Landfill in Waters, Michigan. The Elk Run Landfill located outside Onaway in Presque Isle County, has not been utilized by the counties and will not be used as a disposal site in the next planning period.



Type B transfer stations are to be utilized by many of the townships in the counties and are located in the following townships: Albert, Montmorency, Clinton, Comins, Elmer, Greenwood; privately owned: Luzerne Express Transfer Station, and McGregor's Transfer Site (formerly Big Creek Township transfer station).

See Attachment C for a map showing the location of transfer stations, disposal sites and relative distances to disposal sites.

**RETURN TO
MODIFICATION
LETTER**

FACILITY DESCRIPTIONS

Facility Type: Waste-to-Energy Facility, Processing Plant

Facility Name: Advantis Renewable Energy, LLC

County: Montmorency Location Town: 26N Range: 3E Section(s): 6

Map identifying location included in Attachment Section: Yes

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

Owner: Recovered Energy Resources, Inc.

Operating Status (check) Waste Types Received (check all that apply)

Open	X Residential
Closed	X Commercial
Licensed	X Industrial
X Unlicensed ¹	X Construction & demolition
X Construction permit ¹	Contaminated soils
Open, closure pending	Special wastes *
	Other:

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

Site Size:

Total area of facility property:	80	acres
Total area sited for use:	20	acres*
Total area permitted:	80	acres
Operating:	3-4	acres
Not excavated:	37-40	acres

Current capacity:	3,500,000	yds
Estimated lifetime:	30	years
Estimated days open per year:	310	days
Estimated yearly disposal volume:	145,000	yds ³

Annual energy production:

Landfill gas recovery projects:		Will be adding recovery in the future
Waste-to-energy incinerators:	4.6	megawatts*

*Nameplate capacity of facility under development

¹ Currently in process of obtaining permits to construct

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: McGregor's Transfer Site

County: Oscoda

Location Town: 26N

Range: 2 E

Section(s): 15

Map identifying location included in Attachment Section: Yes

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

Owner: McGregor's

Operating Status (check) Waste Types Received (check all that apply)

<input checked="" type="checkbox"/> open	<input checked="" type="checkbox"/> residential
<input type="checkbox"/> closed	<input type="checkbox"/> commercial
<input checked="" type="checkbox"/> licensed	<input type="checkbox"/> industrial
<input type="checkbox"/> unlicensed	<input type="checkbox"/> construction & demolition
<input type="checkbox"/> construction permit	<input type="checkbox"/> contaminated soils
<input type="checkbox"/> open, closure pending	<input type="checkbox"/> special wastes *
	<input type="checkbox"/> other:

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

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: yds³

Estimated lifetime: years

Estimated days open per year: days

Estimated yearly disposal volume: yds³

Annual energy production:

Landfill gas recovery projects: megawatts

Waste-to-energy incinerators: megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Luzerne Express Transfer Station

County: Oscoda

Location Town: 26N

Range: 1 E

Section(s): 26

Map identifying location included in Attachment Section: Yes

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

Owner: Mark Pattullo, PO Box 143, Luzerne, MI 48636

Operating Status (check) Waste Types Received (check all that apply)

<input checked="" type="checkbox"/> open	<input checked="" type="checkbox"/> residential
<input type="checkbox"/> closed	<input type="checkbox"/> commercial
<input checked="" type="checkbox"/> licensed	<input type="checkbox"/> industrial
<input type="checkbox"/> unlicensed	<input type="checkbox"/> construction & demolition
<input type="checkbox"/> construction permit	<input type="checkbox"/> contaminated soils
<input type="checkbox"/> open, closure pending	<input type="checkbox"/> special wastes *
	<input type="checkbox"/> other:

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

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: yds³

Estimated lifetime: years

Estimated days open per year: days

Estimated yearly disposal volume: yds³

Annual energy production:

Landfill gas recovery projects: megawatts

Waste-to-energy incinerators: megawatts

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 ¹	Authorized Quantity/ Daily	Authorized Quantity/ Annual	Authorized Conditions ²
Montmorency*	Alpena	Advantis**	100 %	100 %	P
Montmorency	Montmorency	Advantis	100 %	100 %	P
Montmorency	Oscoda	Advantis	100 %	100 %	P
Montmorency	Emmet	Advantis	*	*	P, C
Montmorency	Cheboygan	Advantis	*	*	P, C
Montmorency	Presque Isle	Advantis	*	*	P, C
Montmorency	Alcona	Advantis	*	*	P, C
Montmorency	Iosco	Advantis	*	*	P, C
Montmorency	Ogemaw	Advantis	*	*	P, C
Montmorency	Roscommon	Advantis	*	*	P, C
Montmorency	Crawford	Advantis	*	*	P, C
Montmorency	Otsego	Advantis	*	*	P, C
Montmorency	Kalkaska	Advantis	*	*	P, C
Montmorency	Grand Traverse	Advantis	*	*	P, C
Montmorency	Benzie	Advantis	*	*	P, C
Montmorency	Leelenau	Advantis	*	*	P, C
Montmorency	Antrim	Advantis	*	*	P, C
Montmorency	Charlevoix	Advantis	*	*	P, C
Montmorency	Schoolcraft	Advantis	*	*	P, C

* The MOASWMA reserves the right to establish waste hauler allocations into the landfill.

** Advantis Renewable Energy, LLC., Waste-to Energy and Processing Plant.



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

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

SOLID WASTE DISPOSAL AREAS

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

Type II Landfill:

Montmorency-Oscoda-Alpena Sanitary Landfill

Waste Management, Inc Landfill in Waters, MI
(Contingency Only)

Type A Transfer Facility:**Type B Transfer Facility:**

Albert Township
Montmorency Township
Clinton Township
Comins Township
Greenwood Township
Luzerne Express Transfer
McGregor Transfer
Elmer Township

Type III Landfill:**Processing Plant:**

Proposed (multi-county) Material
Recovery Facility in Alpena County

Incinerator:**Waste Piles:****Waste-to-Energy Incinerator:****Other:**

Advantis Renewable Energy, LLC.
Waste-to-Energy and Processing Plant

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.

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Waste-to-Energy Facility, Processing Plant

Facility Name: Advantis Renewable Energy, LLC

County: Montmorency Location: Town: 29N Range: 3E Section(s): 6

Map identifying location included is Attachment Section: Yes

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

Owner: Recovered Energy Resources, Inc.

<u>Operating Status (check)</u>	<u>Waste Types Received (check all that apply)</u>
Open	X Residential
Closed	X Commerical
Licensed	X Industrial
X Unlicensed ¹	X Construction and Demolition
X Construction Permit ¹	Contaminated Soils
Open, Closure Pending	Special Wastes *
	Other:

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

Site Size:

Total area of facility property:	80	acres
Total area sited for use:	20	acres*
Total area permitted:	80	acres
Operating	3-4	acres
Not excavated	37-40	acres

* Of the 37-40 acres not excavated 20 acres designated for waste-to-energy facility

Current capacity	3,500,000 yd ³
Estimated lifetime	30 years
Estimated days open per year	310 days
Estimated yearly disposal volume	145,000 yd ³

(if applicable)

Annual energy production:

Landfill gas recovery projects:	Will be adding recovery in the future
Waste-to-energy incinerators:	4.6MW*

* Nameplate capacity of facility under development

¹ Currently in process of obtaining permits to construct

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: McGregor's Transfer Site

County: Oscoda

Location Town: 26N

Range: 2 E

Section(s): 15

Map identifying location included in Attachment Section: Yes

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

Owner: McGregor's

Operating Status (check) Waste Types Received (check all that apply)

<input checked="" type="checkbox"/> open	<input checked="" type="checkbox"/> residential
<input type="checkbox"/> closed	<input type="checkbox"/> commercial
<input checked="" type="checkbox"/> licensed	<input type="checkbox"/> industrial
<input type="checkbox"/> unlicensed	<input type="checkbox"/> construction & demolition
<input type="checkbox"/> construction permit	<input type="checkbox"/> contaminated soils
<input type="checkbox"/> open, closure pending	<input type="checkbox"/> special wastes *
	<input type="checkbox"/> other:

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

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: yds³

Estimated lifetime: years

Estimated days open per year: days

Estimated yearly disposal volume: yds³

Annual energy production:

Landfill gas recovery projects: megawatts

Waste-to-energy incinerators: megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Luzerne Express Transfer Station

County: Oscoda

Location Town: 26N

Range: 1 E

Section(s): 26

Map identifying location included in Attachment Section: Yes

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

Owner: Mark Pattullo, PO Box 143, Luzerne, MI 48636

Operating Status (check) Waste Types Received (check all that apply)

<input checked="" type="checkbox"/> open	<input checked="" type="checkbox"/> residential
<input type="checkbox"/> closed	<input type="checkbox"/> commercial
<input checked="" type="checkbox"/> licensed	<input type="checkbox"/> industrial
<input type="checkbox"/> unlicensed	<input type="checkbox"/> construction & demolition
<input type="checkbox"/> construction permit	<input type="checkbox"/> contaminated soils
<input type="checkbox"/> open, closure pending	<input type="checkbox"/> special wastes *
	<input type="checkbox"/> other:

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

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: yds³

Estimated lifetime: years

Estimated days open per year: days

Estimated yearly disposal volume: yds³

Annual energy production:

Landfill gas recovery projects: megawatts

Waste-to-energy incinerators: megawatts

SITING REVIEW PROCEDURES

AUTHORIZED DISPOSAL AREA TYPES

Montmorency-Oscoda-Alpena Sanitary Landfill
Advantis Renewable Energy, LLC Waste-to-Energy and Processing Plant

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.

Type II Sanitary Landfill may not be sited by this Plan. Any and all expansions of the MOASL are consistent with this plan.

Type III landfills may not be sited by this Plan.

Type A Transfer Stations may not be sited by this Plan.

SITING CRITERIA AND PROCESS

The following process describes the criteria and procedures to be used to site solid waste disposal facilities and determine consistency with this Plan.

Not Applicable. Montmorency and Oscoda Counties have more than ten years of capacity available for solid waste disposal. Montmorency-Oscoda-Alpena Sanitary Landfill, the primary solid waste disposal facility, has a current capacity of 3,500,00 yds³ and an estimated lifetime of 30 years. Additionally, the contingency disposal facility, Waste Management, Inc. Landfill in Waters, has a current capacity of 8.2 million yds³ and an estimated lifetime of more than 20 years. Documentation that Montmorency and Oscoda Counties have access to the disposal capacity at the Montmorency-Oscoda-Alpena Sanitary Landfill and the Waste Management, Inc. Landfill in Waters is contained in Attachment B.

SELECTED SYSTEM

IDENTIFICATION OF RESPONSIBLE PARTIES

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

Resource Conservation:

Source or Waste Reduction -

Will achieve through educational activities in partnership with local organizations.

Product Reuse -

Will achieve through educational activities in partnership with local organizations.

Reduced Material Volume -

Will achieve through educational activities in partnership with local organizations.

Increased Product Lifetime -

Will achieve through educational activities in partnership with local organizations.

Decreased Consumption -

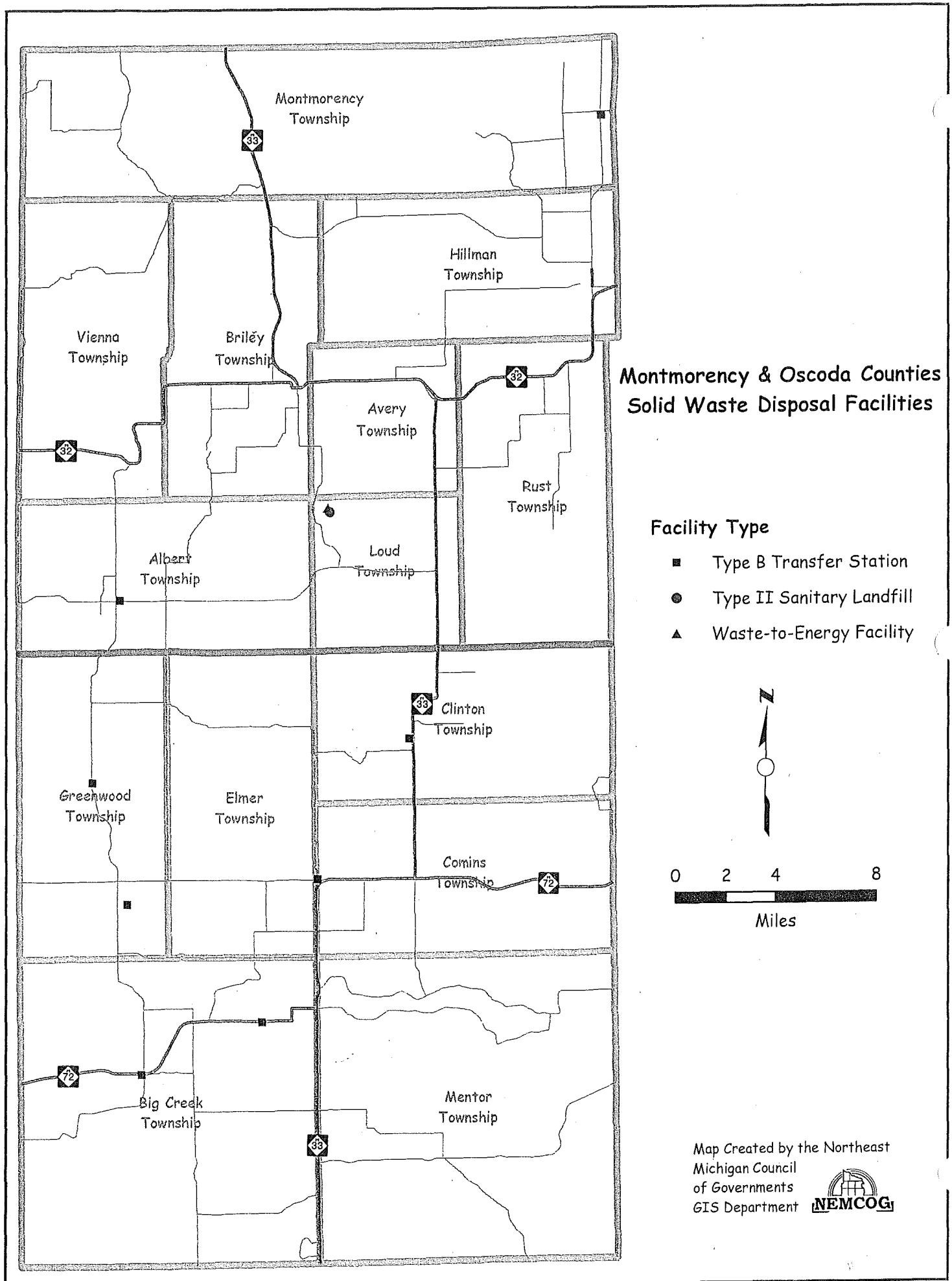
Will achieve through educational activities in partnership with local organizations.

Resource Recovery Programs:

Composting –

MOASL Authority

Albert Township





JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

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

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

December 27, 1999

Mr. Richard Hermanson, Chairperson
Montmorency County Board of Commissioners
PO Box 415
Atlanta, Michigan 49709

Dear Mr. Hermanson:

The Department of Environmental Quality (DEQ) received the locally approved update to the Montmorency-Oscoda County Solid Waste Management Plan (Plan) on October 5, 1999.

By this letter, this Plan is hereby approved and Montmorency and Oscoda Counties now assume responsibility for the enforcement and implementation of this Plan. The DEQ would like to thank Montmorency County for their efforts in addressing the counties' solid waste management issues. An approval letter similar to this one has been sent to the Oscoda County Board of Commissioners.

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

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

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

Sincerely,

A handwritten signature in cursive script, reading "Russell J. Harding". Below the signature, the word "ACTING" is written in capital letters.

Russell J. Harding
Director
517-373-7917

cc: Senator Walter H. North
Representative Kenneth L. Bradstreet
Ms. Diane Rekowski, NEMCOG
Mr. Arthur R. Nash Jr., Deputy Director, DEQ
Ms. Cathy Wilson, Legislative Liaison, DEQ
Mr. Jim Sygo, DEQ
Ms. Joan Peck, DEQ
Mr. Philip Roycraft, DEQ - Cadillac
Mr. Seth Phillips, DEQ
Mr. Stan Idziak, DEQ
Montmorency County File
Oscoda County File
Alpena 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

RUSSELL J. HARDING, Director

December 27, 1999

Mr. Dennis Kauffman, Chairperson
Oscoda County Board of Commissioners
PO Box 399
Mio, Michigan 48647

Dear Mr. Kauffman:

The Department of Environmental Quality (DEQ) received the locally approved update to the Montmorency-Oscoda County Solid Waste Management Plan (Plan) on October 5, 1999.

By this letter, this Plan is hereby approved and Montmorency and Oscoda Counties now assume responsibility for the enforcement and implementation of this Plan. The DEQ would like to thank Oscoda County for their efforts in addressing the counties' solid waste management issues. An approval letter similar to this one has been sent to the Montmorency County Board of Commissioners.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Russell J. Harding". Below the signature, the word "ACTING" is written in capital letters.

Russell J. Harding
Director
517-373-7917

cc: Senator Walter H. North
Representative Kenneth L. Bradstreet
Ms. Diane Rekowski, NEMCOG
Mr. Arthur R. Nash Jr., Deputy Director, DEQ
Ms. Cathy Wilson, Legislative Liaison, DEQ
Mr. Jim Sygo, DEQ
Ms. Joan Peck, DEQ
Mr. Philip Roycraft, DEQ - Cadillac
Mr. Seth Phillips, DEQ
Mr. Stan Idziak, DEQ
Oscoda County File
Montmorency County File
Alpena County File

MONTMORENCY AND OSCODA COUNTIES

SOLID WASTE MANAGEMENT PLAN

February 24, 1999

1997 PLAN UPDATE COVER PAGE

The Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), Part 115, Solid Waste Management, and its Administrative Rules, requires that each County have a Solid Waste Management Plan Update (Plan) approved by the Michigan Department of Environmental Quality (DEQ). Section 11539a requires the DEQ to prepare and make available a standardized format for the preparation of these Plan updates. This document is that format. The Plan should be prepared using this format without alteration. Please refer to the document entitled "Guide to Preparing the Solid Waste Management Plan Update" for assistance in completing this Plan format.

DATE SUBMITTED TO THE DEQ:

PARICIPATING COUNTIES: Montmorency County, Oscoda County

The following lists all the municipalities from outside the County who have requested and have been accepted to be included in the Plan, or municipalities within the County that have been approved to be included in the Plan of another County according to Section 11536 of Part 115 of the NREPA. Resolutions from all involved County boards of commissioners approving the inclusion are included in Appendix D.

<u>Municipality</u>	<u>Original Planning County</u>	<u>New Planning County</u>
---------------------	---------------------------------	----------------------------

DESIGNATED PLANNING AGENCY PREPARING THIS PLAN UPDATE:

Northeast Michigan Council of Governments (NEMCOG)

CONTACT PERSON: Diane Rekowski, Director

ADDRESS: 121 E. Mitchell
PO Box 457
Gaylord, MI 49734

PHONE: (517) 732-3551

FAX: (517) 732-5578

E-MAIL: nemcog@northland.lib.mi.us

CENTRAL REPOSITORY LOCATION(S):

Montmorency County Courthouse
East Annex Building
12285 Jerome
Atlanta, MI 49709

Oscoda County Courthouse
311 Morenci
Mio, MI 48647

TABLE OF CONTENTS

EXECUTIVE SUMMARY	3
OVERALL VIEW OF THE COUNTY	3
CONCLUSIONS	4
SELECTED ALTERNATIVES	4
INTRODUCTION	5
GOALS AND OBJECTIVES	5
DATABASE	8
SOLID WASTE DISPOSAL AREAS	10
SOLID WASTE FACILITY DESCRIPTIONS	11
SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION INFRASTRUCTURE	21
EVALUATION OF DEFICIENCIES AND PROBLEMS	22
DEMOGRAPHICS	23
LAND DEVELOPMENT	25
SOLID WASTE MANAGEMENT ALTERNATIVES	26
SELECTED SOLID WASTE MANAGEMENT SYSTEM	33
IMPORT/EXPORT AUTHORIZATIONS	34
SOLID WASTE DISPOSAL AREAS	38
FACILITY DESCRIPTIONS	39
SOLIDWASTE COLLECTION SERVICES AND TRANSPORTATION INFRASTRUCTURE	48
RESOURCES CONSERVATION EFFORTS	49
WASTE REDUCTION, RECYCLING & COMPOSTING PROGRAMS	50
EDUCATIONAL AND INFORMATIONAL PROGRAMS	62
TIMETABLE	63
SITING PROCEDURE	64
MANAGEMENT COMPONENT	65
LOCAL ORDINANCES AND REGULATIONS	69
CAPACITY CERTIFICATION PROCESS	71
APPENDIX A – ADDITIONAL INFORMATION REGARDING THE SELECTED SYSTEM	72
EVALUATION OF RECYCLING	73
DETAILED FEATURES OF RECYCLING AND COMPOSTING PROGRAMS	74
COORDINATION EFFORTS	77
COSTS AND FUNDING	78
EVALUATION SUMMARY	79
ADVANTAGES AND DISADVANTAGES	82
APPENDIX B – NON SELECTED SYSTEMS	83
NON SELECTED SYSTEMS	84
APPENDIX C – PUBLIC PARTICIPATION	93
PUBLIC PARTICIPATION AND APPROVAL	94
APPENDIX D – PLAN IMPLEMENTATION STRATEGY	98
ATTACHMENTS	100

EXECUTIVE SUMMARY

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

OVERALL VIEW OF THE COUNTY

Township or Municipality Name	Population	Rural	Urban	Ag	For	Ind	Com	Oth
<u>Montmorency County</u>								
Albert Twp	2,188	100	0	<1	1	16	64	19
Avery Twp	652	100	0	<1	<1	14	56	28
Briley Twp	2,061	100	0	<1	2	17	49	32
Hillman Twp	2,447	100	0	<1	1	20	43	36
Loud Twp	247	100	0	0	0	15	67	18
Montmorency Twp	1,210	100	0	6	13	24	28	29
Rust Twp	578	100	0	2	5	24	46	23
Vienna Twp	485	100	0	2	4	29	46	19
Total Population	9,868							
<u>Oscoda County</u>								
Big Creek Twp	3,112	100	0	1	3	21	47	28
Clinton Twp	501	100	0	1	3	25	50	20
Comins Twp	1,992	100	0	2	4	27	41	26
Elmer Twp	957	100	0	4	9	33	43	11
Greenwood Twp	986	100	0	0	0	26	54	20
Mentor Twp	1,227	100	0	2	4	16	41	37
Total Population	8,775							

*Ag = Agriculture; For = Forestry; Ind = Industry; Com = Commercial; Oth = All Other Economic Bases. Additional listings, if necessary, are listed on an attached page.

EXECUTIVE SUMMARY

CONCLUSIONS

The Montmorency and Oscoda County Solid Waste Planning Committee was established utilizing newspaper advertisements and appointments by the Montmorency and Oscoda County Boards of Commissioners. Once committee positions were filled, the County Boards of Commissioners voted on and approved the committee.

Committee meetings were held to obtain input into the overall plan. The current solid waste management system was reviewed and the deficiencies of this system were discussed. In developing the selected system, attempts were made to solve the problems and deficiencies in the present system.

Each solid waste management alternative for Montmorency and Oscoda Counties was assessed based on technical feasibility, economic feasibility, access to land, access to transportation, effects on energy, environmental impacts, pollution prevention, waste reduction, resource recovery, public acceptability, conservation of natural resources, and institutional arrangements. Selection of the solid waste management system was based on the system that would be in the best interest of the residents of Montmorency and Oscoda Counties. The selected system was chosen by a majority vote of the Solid Waste Planning Committee.

SELECTED ALTERNATIVE

Selection of the solid waste management system was based on economics, environmental protection and sound waste management practices. The primary solid waste disposal facility for the selected system will be the Montmorency-Oscoda-Alpena Sanitary Landfill (MOASL) with contingency at the Waste Management, Inc. Landfill in Waters, Michigan. All solid waste generated in Montmorency and Oscoda Counties will be disposed of at the MOASL. This alternative utilizes the MOASL for the next 20 year planning period.

Private hauling companies will continue to provide residential, commercial, and industrial service pick-up in Montmorency and Oscoda Counties. Collection of solid waste will continue to be through private agreements with customers.

Initially, recycling and composting operations currently in operation in Montmorency and Oscoda counties will continue at their present level of operation. Backyard composting programs will be promoted for the rest of the rural portions of the county. Educational efforts will involve utilizing existing agencies and organizations for information dissemination. Over the 5 year planning period, Montmorency and Oscoda counties, along with adjacent counties and the private sector, will participate in the development of a multi-county recycling program for use by their residents. A Material Recovery Facility (MRF) will be developed within the three county area for central processing and marketing. Recycling compartmentalized containers will be strategically located throughout the counties for convenient use by residents. Composting facilities in Albert and Big Creek Townships and at the MOASL will continue to be available for residents use, and new sites will be established as determined necessary. Backyard composting programs will continue to be promoted for the rural portions of the county. Education efforts will increase and will be a key component of the program emphasizing reduce, reuse, recycle, and buy recycled products.

INTRODUCTION

GOALS AND OBJECTIVES

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

- (1) To utilize to the maximum extent possible the resources available in Michigan's solid waste stream through source reduction, source separation, and other means of resource recovery and;
- (2) To prevent adverse effects on the public health and the environment resulting from improper solid waste collection, transportation, processing, or disposal, so as to protect the quality of the air, the land, and ground and surface waters.

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

Montmorency and Oscoda Counties Solid Waste Goals and Objectives

Goal 1: Establish and maintain a resource recovery program to reduce the overall dependency on land disposal and to provide for the conservation of natural resources.

Objective 1a: Initiate a county-wide or multi-county recycling program.

- A. Meet with other counties in the region to discuss the development of a multi-county recycling program.
- B. Develop a strategic plan for recycling program implementation.
- C. Develop a comprehensive recycling education program to include the involvement of the schools, organizations, business, local government and the general public, etc.
- D. Explore the possibilities of joint purchasing of recycled paper products.
- E. Examine the possibility of developing a collection program for used oil and other products that may not be included in the recycling program.
- F. Review current markets for used tires and explore the possibility of developing a local market for used tires generated in northern Michigan.

Objective 1b. Expand and improve composting opportunities in Montmorency and Oscoda Counties.

- A. On an annual basis, disseminate educational information to the general public on backyard composting techniques.
- B. Conduct a survey to determine composting needs (additional sites as well as equipment needs).
- C. Establish additional composting sites as determined by the survey.
- D. Develop a composting promotional campaign to increase the awareness and participation of the program.
- E. Coordinate the use of equipment between the various composting sites in the counties.

Objective 1c. Develop a Resource Recovery Education program to increase the understanding of the benefits of reducing, reusing, and recycling solid wastes.

- A. Meet with MSU Extension, school representatives, organizations, businesses, etc. to develop an overall education program.
- B. Determine the delivery system for information dissemination (i.e. MSU Extension - brochures available to general public, 4H- activity, school calendars, school logo contests).
- C. Gather available information for local dissemination.
- D. Designate an office where the public can direct questions about solid waste management and where they can obtain printed educational materials.
- E. Incorporate the "Buy Recycled" theme into educational program.

Goal 2: Provide for the protection of the public's health and the quality of the natural resources: air, land, ground and surface waters, by increasing the overall efficiency of solid waste collection, transportation, and disposal.

Objective 2a. Develop a household and agricultural hazardous waste collection program.

- A. Biannually, organize and hold a household hazardous waste collection day.
- B. Develop and distribute educational materials that describe which wastes classify as hazardous and explain proper disposal methods.
- C. Meet with other counties in the region to discuss holding a multi-county collection day.
- D. Research available hazardous waste disposal programs.

E. Promote existing hazardous waste programs; i.e. Operation Clean Sweep.

Objective 2b. Establish and enhance annual clean-up days to prevent further disposal of solid waste on forest land.

A. Organize a meeting with townships to develop and coordinate annual clean-up day programs.

B. On an annual basis, hold clean-up days throughout the county.

Objective 2c. Reduce illegal dumping of solid waste on forest land.

A. Review existing enforcement system to determine if additional regulations are needed.

B. Enhance system, if necessary, by enacting a county ordinance that provides fines and/or other penalties for illegal dumping and encourages witnesses to report illegal dumping by offering rewards.

C. Provide a reasonably priced disposal method for large furniture and white goods, to prevent these items from being dumped in the woods.

D. Develop a promotional campaign to increase awareness and participation in the large item disposal program.

Objective 2d. Monitor solid waste volume received at MOASL.

A. Review reported landfill figures at the MOASL and surrounding landfills.

B. Encourage disposal and the recycling of waste from counties authorized to import waste on a primary basis to the MOASL.

Objective 2e. Maintain competitive waste management services for county residents.

A. Continue to offer competitive disposal fees by increasing the overall efficiency of disposal operations.

B. Meet with local haulers to discuss possible improvements to solid waste systems.

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. (Attach additional pages as necessary)

Residential/commercial solid waste data was calculated by staff based on the generation rate of 3 lbs/capita/day, which was calculated from the amount of waste generated in Montmorency and Oscoda counties in 1997 and 1996. The only significant source of industrial waste is the Hillman Power Plant in Montmorency County. The Power Plant generated 5612 tons of flyash in 1997, however this is used as daily cover at the landfill. Industrial waste data was calculated based on the generation rate of 3 lbs/capita/day, which was calculated from the amount of waste generated in 1997. The 1997 volumes are based on population estimates (Source: Bureau of Census, U.S. Department of Commerce) and the 2000, 2005 and 2010 generation volumes are based on population projections (Source: Michigan Department of Management and Budget). The projected solid waste generation for Montmorency and Oscoda Counties, broken down by township and county, is shown in the following tables. These figures are based on future population trends and do not take into consideration any factors affecting solid waste fluctuations.

Montmorency County Solid Waste Generation Residential and Commercial Waste

	% of waste stream	1997 Volume tons/yr	2000 Volume tons/yr	2005 Volume tons/yr	2010 Volume tons/yr
Albert Twp	22	1202	1304	1439	1593
Avery Twp	7	383	415	458	507
Briley Twp	23	1256	1363	1505	1665
Hillman Twp	17	929	1007	1112	1231
Hillman Village	5	274	296	327	362
Loud Twp	3	164	178	196	217
Montmorency Twp	12	656	711	785	869
Rust Twp	6	328	356	393	434
Vienna Twp	5	274	296	327	362
Montmorency County	100	5464	5927	6542	7240

Montmorency County Solid Waste Generation Industrial Waste

	1997 Volume tons/yr	2000 Volume tons/yr	2005 Volume tons/yr	2010 Volume tons/yr
Hillman Power Plant	5612	5927	6542	7240

Oscoda County Solid Waste Generation
Residential and Commercial Waste

	% of waste stream	1997 Volume tons/yr	2000 Volume tons/yr	2005 Volume tons/yr	2010 Volume tons/yr
Big Creek Twp	35	1695	1823	1975	2140
Clinton Twp	6	291	313	338	367
Comins Twp	23	1130	1198	1298	1406
Elmer Twp	11	533	573	621	672
GreenwoodTwp	10	484	521	565	611
Mentor Twp	15	727	781	846	917
Oscoda County	100	4842	5209	5643	6113

Montmorency and Oscoda Counties do not anticipate major problems associated with managing the solid waste generated within their counties, as their landfill will have 20 plus years of projected capacity. Collection of solid waste is currently available through private agreements with private hauling companies. Increase in waste due to increase in tourism and seasonal home development will be handled through private hauling companies. Increases in waste due to population growth will be moderated by the institution of a recycling program, a household hazardous waste collection program and an educational campaign to increase participation in composting.

TOTAL QUANTITY OF SOLID WASTE GENERATED:

In 1997: 15,918 tons/yr

In 2000: 17,063 tons/yr

In 2005: 18,727 tons/yr

In 2010: 20,593 tons/yr

TOTAL QUANTITY OF SOLID WASTE NEEDING DISPOSAL:

In 1997: 10,306 tons/yr

In 2000: 11,136 tons/yr

In 2005: 12,185 tons/yr

In 2010: 13,353 tons/yr

DATA BASE - SOLID WASTE DISPOSAL AREAS

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.

Solid waste generated in Montmorency or Oscoda Counties is disposed of at the Montmorency-Oscoda-Alpena Sanitary Landfill in Montmorency County. Contingency disposal has been and will continue to be at the Waste Management Inc. Landfill in Waters, Michigan. The Elk Run Landfill located outside of Onaway in Presque Isle County, has not been utilized by the counties and will not be used as a disposal site in the next planning period.

Type B transfer stations are utilized by many of the townships in the counties and are located in the following townships: Albert, Montmorency, Clinton, Comins, Elmer, Greenwood, and Big Creek.

See Attachment C for a map showing the location of transfer stations, disposal sites and relative distances to disposal sites.

DATA BASE - FACILITY DESCRIPTIONS

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill

Facility Name: Montmorency-Oscoda-Alpena Sanitary Landfill

County: Montmorency

Location: Town: 29N

Range: 3E

Section(s): 6

Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Montmorency and Oscoda Counties

Operating Status (check)

☒ open
☐ closed
☒ licensed
☐ unlicensed
☒ construction permit
☐ open, 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:	80	acres ¹
Total area sited for use:	80	acres
Total area permitted:	80	acres
Operating:	3-4	acres
Not excavated:	37-40	acres

Current capacity:	3,500,000 yds ³
Estimated lifetime:	30 years
Estimated days open per year:	310 days
Estimated yearly disposal volume:	145,000 yds ³

(if applicable)

Annual energy production:

Landfill gas recovery projects: Will be adding recovery in future

Waste-to-energy incinerators: NA megawatts

¹ Currently in the process of obtaining a construction permit for a new cell

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill

Facility Name: Waste Management Inc. of Waters

County: Crawford

Location: Town: 28 N

Range: 8 E

Section(s): 4

Map identifying location included in Attachment Section: No

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

Owner: Privately owned by Waste Management Inc.

<u>Operating Status (check)</u>	<u>Waste Types Received (check all that apply)</u>
---------------------------------	--

<input checked="" type="checkbox"/> open	<input checked="" type="checkbox"/> residential
<input type="checkbox"/> closed	<input checked="" type="checkbox"/> commercial
<input checked="" type="checkbox"/> licensed	<input checked="" type="checkbox"/> industrial
<input type="checkbox"/> unlicensed	<input checked="" type="checkbox"/> construction & demolition
<input type="checkbox"/> construction permit	<input checked="" type="checkbox"/> contaminated soils
<input type="checkbox"/> open, closure pending	<input checked="" type="checkbox"/> special wastes *
	other:

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

Contaminated soils, friable

Site Size:

Total area of facility property:	252.2	acres
Total area sited for use:	252.2	acres
Total area permitted:	79.07	acres
Operating:	9.7	acres
Not excavated:	64.87	acres
Current capacity:	8.2 million	yds ³
Estimated lifetime:	+ 20	years
Estimated days open per year:	313	days
Estimated yearly disposal volume:	185,000-200,000	yds ³

Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill

Facility Name: Elk Run Sanitary Landfill

County: Presque Isle

Location: Town: T33N

Range: R2E

Section(s): NE ¼ of 5

Map identifying location included in Attachment Section:

Yes

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

Owner: Republic, Inc.

Operating Status (check)

Waste Types Received (check all that apply)

<input checked="" type="checkbox"/> open	<input checked="" type="checkbox"/> residential
<input type="checkbox"/> closed	<input checked="" type="checkbox"/> commercial
<input checked="" type="checkbox"/> licensed	<input type="checkbox"/> industrial
<input type="checkbox"/> unlicensed	<input checked="" type="checkbox"/> construction & demolition
<input type="checkbox"/> construction permit	<input checked="" type="checkbox"/> contaminated soils
<input type="checkbox"/> open, closure pending	<input checked="" type="checkbox"/> special wastes *
	other:

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

Site Size:

Total area of facility property:	120	acres
Total area sited for use:	42	acres
Total area permitted:	42	acres
Operating:	3	acres
Not excavated:	39	acres

Current capacity:	3, 400,000	yds3
Estimated lifetime:	35	years
Estimated days open per year:	52	days – will be open 1 day/week - 50 yds3/day
Estimated yearly disposal volume:	5,000	yds3/month - minimal

(if applicable)

Annual energy production:

Landfill gas recovery projects:	0	megawatts
Waste-to-energy incinerators:		megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Albert Township Transfer Station

County: Montmorency

Location: Town: 29 N

Range: 1 E

Section(s): 23

Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Albert Township

Operating Status (check)

☒ open
closed
☒ licensed
unlicensed
construction permit
open, 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: yds3
Estimated lifetime: years
Estimated days open per year: days
Estimated yearly disposal volume: yds3

Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Montmorency Township Transfer Station

County: Montmorency

Location: Town: 32 N

Range: 5 E

Section(s): 30

Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Montmorency Township

Operating Status (check)

☒ open
☐ closed
☒ licensed
☐ unlicensed
☐ construction permit
☐ open, 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: yds3
Estimated lifetime: years
Estimated days open per year: days
Estimated yearly disposal volume: yds3

Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Clinton Township Transfer Station

County: Oscoda

Location: Town: 28 N

Range: 3 E

Section(s): 22

Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Clinton Township

Operating Status (check)

☒ open
☐ closed
☒ licensed
☐ unlicensed
☐ construction permit
☐ open, 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:	yds3
Estimated lifetime:	years
Estimated days open per year:	days
Estimated yearly disposal volume:	yds3

Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Comins Township Transfer Station

County: Oscoda

Location: Town: 27 N

Range: 3 E

Section(s): 18

Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Comins Township

Operating Status (check)

☒ open
☐ closed
☒ licensed
☐ unlicensed
☐ construction permit
☐ open, 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: yds³

Estimated lifetime: years

Estimated days open per year: days

Estimated yearly disposal volume: yds³

Annual energy production:

Landfill gas recovery projects: megawatts

Waste-to-energy incinerators: megawatt

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Elmer Township Transfer Station

County: Oscoda

Location: Town: 27 N

Range: 1 E

Section(s): 23

Map identifying location included in Attachment Section: No

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

Owner: Publicly owned by Elmer Township

Operating Status (check)

- ☒ open
- ☐ closed
- ☒ licensed
- ☐ unlicensed
- ☐ construction permit
- ☐ open, 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:	yds3
Estimated lifetime:	years
Estimated days open per year:	days
Estimated yearly disposal volume:	yds3

Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Greenwood Township Transfer Station

County: Oscoda

Location: Town 28 N

Range: 1 E

Section(s): 34

Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Greenwood Township

Operating Status (check)

☒ open

☐ closed

☒ licensed

☐ unlicensed

☐ construction permit

☐ open, 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: yds3

Estimated lifetime: years

Estimated days open per year: days

Estimated yearly disposal volume: yds3

Annual energy production:

Landfill gas recovery projects: megawatts

Waste-to-energy incinerators: megawatt

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Big Creek Township Transfer Station

County: Oscoda

Location: Town: 26 N

Range: 2 E

Section(s): 15

Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Big Creek Township

Operating Status (check)

☒ open

☐ closed

☒ licensed

☐ unlicensed

☐ construction permit

☐ open, 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: yds3

Estimated lifetime: years

Estimated days open per year: days

Estimated yearly disposal volume: yds3

Annual energy production:

Landfill gas recovery projects: megawatts

Waste-to-energy incinerators: megawatt

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.

Collection of residential, commercial and industrial solid waste in Montmorency and Oscoda Counties is accomplished by commercial haulers providing curbside pick-up and container service or by individuals transporting their own waste to transfer stations or to MOASL. The haulers currently serving the county are:

Solid Waste Collection Services

<u>Service Provider</u>	<u>Public/Private</u>	<u>Service Area</u>	<u>Payment</u>	<u>Disposal Facility</u>
Waste Mgmt.	Private	Montmorency County Oscoda County	Customer	MOASL ¹ Waters Waste Mgmt., Inc.
Jewell's Disposal Service	Private	Montmorency County	Customer	MOASL
Mason Disposal Service	Private	Montmorency County	Customer	MOASL
Thunder Bay Sanitation	Private	Montmorency County Oscoda County	Customer	MOASL
Whitehouse Disposal	Private	Montmorency County Oscoda County	Customer	MOASL

¹MOASL – Montmorency-Oscoda –Alpena Sanitary Landfill

DATA BASE - EVALUATION OF DEFICIENCIES AND PROBLEMS

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

Major deficiencies with regards to solid waste in Montmorency and Oscoda Counties are primarily a result of minimal revenue available for solid waste management, low population levels, the rural character of the counties and lack of participation in current recycling and composting opportunities.

Montmorency and Oscoda counties have a relatively small year- round population base resulting in minimal tax base to support growing infrastructure and public service needs. The counties do, however, experience seasonal influxes of population due to tourism and seasonal residents which results in the need for increased local services and infrastructure costs. The rural nature of the counties also impacts transportation and resource recovery programs. Often, transportation costs are prohibitive for road upgrades and maintenance.

Montmorency and Oscoda Counties both have recycling programs which are operated on a volunteer basis. However, the rural nature of the counties make it difficult to support recycling programs due to low volumes and distances to markets. The current volunteer recycling program has a low participation rate due to the hours of operation and limited educational outreach. A lack of incentives for people to recycle, was also cited by the planning committee as a reason why people are not participating in the program.

Recycling in both counties needs to be more convenient and user friendly. A program which employs a staff person to manage the recycling education and materials marketing is needed to run and maintain a successful operation. However, it is unlikely the monetary resources will be available to provide a paid recycling position.

Composting of yard waste is occurring presently in both counties. The location of the composting sites are: Montmorency-Oscoda-Alpena Sanitary Landfill, Albert Township Transfer Station, and Big Creek Township Transfer Station in Oscoda County. Deficiencies of the current composting opportunities are primarily a lack of participation in the program, equipment, and educational outreach. Educational outreach to promote backyard composting throughout the two counties is needed.

The current solid waste management system does not provide a means of proper disposal for agricultural and household hazardous waste. There is a lack of knowledge among the residents about the proper way to dispose of household hazardous waste. Household hazardous waste collection days are expensive and, with a low population base, cost is prohibitive for most townships. Though there are methods to recycle batteries, there is no system of collection in place to serve Montmorency and Oscoda Counties. Also, there is not an effective way to dispose of or recycle motor oil and used tires.

Though it is decreasing, there is still a problem with dumping trash in the woods. Big items are especially a problem: refrigerators, water heaters, large furniture. It is felt that the State does not adequately enforce laws against dumping trash in the woods and that the prosecuting attorney does not follow through on tickets written by conservation officers. Local governments have had several clean up days. Once areas have been cleaned up some remain clean while others fill back up with trash. Increased enforcement is needed to prevent and reduce problems associated with illegal dumping.

Maintaining competitive collection services is also a concern for the committee, since the recent merger of waste companies.

DATA BASE - DEMOGRAPHICS

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

The Northeast Region of Michigan's Lower Peninsula is experiencing an increase in population. As the state's population ages, people are moving from urban to rural areas, seeking a higher quality of life than that found in the cities. Second home development is increasing throughout northeast Michigan and is expected to continue to increase as more people reach the retirement age.

The major population centers of Montmorency County are Lewiston in Albert Township, Atlanta in Briley Township and Hillman in Hillman Township. It is important to note that although Albert, Briley and Hillman Townships have the highest population densities in the County, these townships still only had 25 to 50 people per square mile in 1994, which is a low population density. From 1970 – 1990, population density in Montmorency County increased between 9 to greater than 100 % (See maps in Attachment C). Between 1990 – 1994, the percent change in population density increased 0 to 16 %, with the exception of Loud Township, which experienced a decline. Housing units, an indicator of seasonal population, saw a 25 to 100 % increase in the county from 1970 – 1980. From 1980 – 1990, housing units increased overall, although at a slower rate.

The major population centers of Oscoda County are around Fairview in Comins Township and around Mio. Again, it is important to note that though Comins Township has the highest population density in the County, it still had only 25 to 50 people per square mile in 1994, which is a low population density. Population density in Oscoda County from 1970 – 1990 increased between 9 to greater than 100 %. Between 1990 – 1994, the percent change in population density was between 4 to 16 %. Housing units, an indicator of seasonal population, saw a 25 to 75 % increase in the county from 1970 – 1980. From 1980 – 1990, housing units increased, although at a slower rate, except in Mentor Township where housing units declined.

MONTMORENCY COUNTY POPULATION PROJECTIONS

	1995	2000	2005	2010
Montmorency County	9980	10826	11948	13224
Albert Twp	2196	2382	2629	2909
Avery Twp	699	758	836	926
Briley Twp	2295	2490	2748	3042
Hillman Twp	1697	1840	2031	2248
Hillman Village	500	541	597	661
Loud Twp	300	325	358	397
Montmorency Twp	1198	1299	1433	1587
Rust Twp	599	650	717	793
Vienna Twp	500	541	597	661

OSCODA COUNTY POPULATION PROJECTIONS

	1995	2000	2005	2010
Oscoda County	8844	9515	10306	11166
Big Creek Twp	3095	3330	3607	3908
Clinton Twp	531	571	618	670
Comins Twp	2034	2188	2370	2568
Elmer Twp	973	1047	1134	1228
Greenwood Twp	884	952	1031	1116
Mentor Twp	1327	1427	1546	1675

In summary, population has increased in Montmorency and Oscoda Counties and it is anticipated that this trend will continue at a steady pace. The trend of increased housing, an indicator of seasonal population, is also expected to continue as more people retire and move seasonally to less populated areas of the state. Even though Montmorency and Oscoda Counties have experienced significant population increases in the last 20 years, they remain the least populated of the counties in Northeast Michigan.

Centers of solid waste generation coincide with major population centers in the counties. The major centers of solid waste generation in Montmorency County are Lewiston in Albert Township, Atlanta in Briley Township and Hillman in Hillman Township. The major centers of solid waste generation in Oscoda County are around Fairview in Comins Township and around Mio. The only significant source of industrial waste is the Hillman Power Plant in Montmorency County. It is not anticipated that industrial waste generation will change significantly over the next five and ten year periods. Centers of solid waste generation in Montmorency and Oscoda Counties are expected to remain the same for the next five year and ten year periods.

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.

Land use trends in Montmorency and Oscoda Counties indicate residential development occurring along lakes, rivers, and adjacent to major roads (see Attachment C). In Montmorency County, commercial and industrial development occurs primarily around Lewiston, Atlanta and Hillman. In Oscoda County, commercial and industrial development is minimal and occurs primarily around Mio. The majority of agricultural land in the counties is located north and south of Hillman and north of Mio in the area surrounding Fairview. Overall, agriculture is slightly declining in the counties. Forest and lowland forest comprise a majority of the total land use.

Future trends indicate that residential development will continue to follow roads and will be clustered around lakes and rivers. Development will most likely occur on nonforest, upland forest, and agricultural lands. Commercial and industrial development will be concentrated in currently existing population centers. Second home development will steadily increase as more people retire and move north. This will continue the trend of splitting off large parcels into smaller 5 and 10 acre sites.

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 each non-selected alternative are located in Appendix B.

Each solid waste management alternative for Montmorency and Oscoda Counties was assessed based on the following criteria:

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

The majority of the selected alternatives focus on either sanitary landfilling, transfer stations, recycling, composting or combinations of each, a brief review of each follows:

Sanitary Landfilling: Sanitary landfilling is a cost-effective system in northern Michigan when implemented on a multi-county basis. Present landfill sites exist and the public is accustomed to their location and costs. Potential environmental risks include groundwater contamination.

Modular Incineration: Conversion of solid waste to energy is very attractive, however, a lack of markets makes this alternative prohibitively costly. Air pollution has also been problematic at existing facilities.

Volume Reduction: Volume reduction benefits from large scale shredding and baling of solid waste is not cost-effective since the region has excess landfill capacity and the cost of equipment is extremely high. For vehicle volume reduction, the rear loading packer truck is the most cost-effective vehicle for the region.

Transfer Stations: Transfer stations can be a very cost-effective method of transporting solid waste in rural areas or when long hauls are necessary to dispose of solid waste at a multi-county landfill.

Recycling: Recycling rates high public acceptability. Volume reduction through recycling and composting can be achieved in Montmorency and Oscoda Counties, however, with the current markets, subsidy may be necessary for program success. A multi-county recycling effort would be most cost-effective for the region. Recycling of specific materials continues to be cost-effective for certain businesses and industries.

Composting: Composting is the least costly and energy intensive method of disposing of solid waste, especially in a rural region. Composting provides a reusable resource with economic value, and can be implemented individually or on a county-wide basis.

ALTERNATIVE 1: MONTMORENCY-OSCODA-ALPENA SANITARY LANDFILL SERVING MONTMORENCY AND OSCODA COUNTIES WITH LIMITED RESOURCE RECOVERY INITIATIVES

This alternative utilizes the Montmorency-Oscoda-Alpena Sanitary Landfill (MOASL) for the next 20 year planning period. This alternative assumes that all solid waste generated in Montmorency and Oscoda Counties will be disposed of at the landfill. Recycling and composting operations currently in operation in Montmorency and Oscoda counties will continue at their present level of operation. Backyard composting programs will be promoted for the rest of the unpopulated portions of the county. Educational efforts will involve utilizing existing agencies and organizations for information dissemination.

Technical Feasibility

The technical feasibility of sanitary landfilling is well proven and the most utilized system of solid waste management in the U.S. Recycling and composting are also both proven to be technically feasible.

Economic Feasibility

The economic feasibility of selecting this system will require additional solid waste to make this a viable option. Alpena County has agreed to jointly own and operate, along with Montmorency and Oscoda counties, the new landfill cell currently in the process of permit approval. The three counties will jointly share in the bond for construction of the new cell. Educational activities will be subsidized through a combination of existing in-kind support and local donations and grants.

Access to Land

The original landfill is situated on a 40 acre site and currently are in their last cell. The counties obtained an additional 40 acres for landfill expansion. The estimated refuse volume of the site is 3,500,000 cubic yards or 20+ years capacity for the three counties.

Access to Transportation

Access to the landfill is via County Road 487. County Road 487 intersects M-32 in Atlanta five miles north of the landfill and County Road 612 two miles south of the landfill. M-32 has undergone safety and surface improvements. Weight restrictions are in effect during periods of frost for County Roads 487 and 612.

Effects on Energy

Sanitary landfilling is an energy intensive system. The disposal of materials which required energy to produce, also require energy to transport to the site and energy to mechanically cover the materials daily. Some energy is conserved by utilizing transfer stations in the more rural areas.

Environmental Impacts

Since this alternative utilizes an existing site, initial environmental impacts have not been considered. The negative environmental impacts primarily concern the development of leachate within the site and the contamination of groundwater. Methane gas can also be a concern, however, technology exists for utilization of gas for operations.

Public Acceptability

Public acceptability will continue for this program, but will be limited due minimal emphasis on resource recovery programs.

Resource Conservation

Conservation of natural resources will occur through continuation of the recycling programs, and increasing the utilization of backyard composting programs.

Waste Reduction

Waste reduction will be achieved through education. As educational efforts will be limited, it is likely this alternative will not result in significant waste reduction.

Pollution Prevention

This alternative will not increase pollution prevention efforts, but will maintain them at their present level. This alternative does not provide a means to remove household hazardous waste from the waste stream, so these materials will continue to enter the landfill.

Resource Recovery

Resource recovery efforts currently in operation in Montmorency and Oscoda counties will continue at their present level of operation. This alternative will not increase resource recovery programs.

Ultimate Disposal Area Uses

It is anticipated that the Montmorency-Oscoda-Alpena Sanitary Landfill will ultimately be utilized for recreational purposes.

Institutional Arrangements

There will be no additional institutional arrangements with this alternative. Educational activities will continue at their present level through existing agencies programs.

ALTERNATIVE 2: MONTMORENCY-OSCODA-ALPENA SANITARY LANDFILL SERVING MONTMORENCY AND OSCODA COUNTIES WITH EMPHASIS ON RESOURCE RECOVERY INITIATIVES

This alternative utilizes the Montmorency-Oscoda-Alpena Sanitary Landfill (MOASL) for the next 20 year planning period. This alternative assumes that all solid waste generated in Montmorency or Oscoda Counties will be disposed of at the landfill. Recycling and composting will be an integral component of this system. Montmorency and Oscoda counties, along with adjacent counties and the private sector will develop a multi-county recycling program for use by their residents. A Material Recovery Facility (MRF) will be developed within the three county area for central processing and marketing. Recycling compartmentalized containers will be strategically located throughout the counties for convenient use by residents. Composting facilities in Albert and Big Creek Townships and at the MOASL will continue to be available for residents use, and new sites will be established as determined necessary. Backyard composting programs will be promoted for the rest of the unpopulated portions of the county. Education will be a key component of the program emphasizing reduce, reuse, recycle, and buy recycled.

Technical Feasibility

The technical feasibility of sanitary landfilling is well proven and the most utilized system of solid waste management in the U.S. The technical feasibility of recycling and composting is well proven. There are many existing models from which a program can be designed.

Economic Feasibility

The economic feasibility of selecting this system will require additional solid waste to make this a viable option. Alpena County has agreed to jointly own and operate, along with Montmorency and Oscoda counties, the new landfill cell currently in the process of permit approval. The three counties will jointly share in the bond for construction of the new cell. Costs are anticipated to be reimbursed by gate fees.

The economic feasibility of implementing the resource recovery initiatives will require construction, operation, and maintenance costs. Although the costs will vary depending on the type of recycling system that is designed, it is apparent that local as well as federal, state and foundation subsidies will be necessary.

Anticipated Resource Recovery Costs (in the planning stage):

Processing Facility and Equipment: \$30,000 - \$400,000.00

Operation and Maintenance: Will vary dependant upon the type of system implemented. Includes: labor, transportation, materials and equipment costs, building and supplies costs, utilities, etc.

Educational Program: Materials & Technical Assistance: \$15,000 - \$40,000

Composting: \$0 (volunteers or existing staff) - \$5,000.00/year dependant upon volume, how often the compost pile is turned, etc.

Household Hazardous Waste Collection and Disposal: \$5,000 - 10,000+ per year.

Access to Land

The original landfill is situated on a 40 acre site and currently is in the last cell. The counties obtained an additional 40 acres for landfill expansion. The estimated refuse volume of the site is 3,500,000 cubic yards or 20+ years capacity for the three counties. There are sufficient sites available in the counties for construction of the MRF and establishment of recycle drop-off centers.

Access to Transportation

Access to the landfill is via County Road 487. County Road 487 intersects M-32 in Atlanta five miles north of the landfill and County Road 612 two miles south of the landfill. M-32 has undergone safety and surface improvements over the years. Weight restrictions are in effect, during periods of frost for County Roads 487 and 612.

Effects on Energy

Sanitary landfilling is an energy intensive system. The disposal of materials which required energy to produce, also requires energy to transport to the site and energy to daily mechanically cover the materials. Some energy is conserved by utilizing transfer stations in the more rural areas. Recycling of materials can reduce the overall energy costs for production of goods. Energy savings will be realized by the recycling of materials. Composting materials will also reduce the overall energy costs and result in energy savings and a usable product.

Environmental Impacts

Since this alternative utilizes an existing site, initial environmental impacts have not been considered. The negative environmental impacts primarily concern the development of leachate within the site and the contamination of groundwater. Methane gas can also be a concern, however, technology exists for utilization of gas for operations. Recycling of materials will reduce the overall environmental impacts related to the manufacturing of products.

Public Acceptability

Public acceptability for this alternative is expected to be good since it will keep options available for solid waste collection, and provides for increased recycling and composting opportunities.

Resource Conservation

Conservation of natural resources will occur through the initiation of the multi-county recycling program and increasing the utilization of backyard composting programs.

Waste Reduction

Waste reduction will be achieved through education. Education will be a key component of this alternative and will emphasize reduce, reuse, and recycle.

Pollution Prevention

This alternative will increase pollution prevention by developing a household hazardous waste program. Pollution will decrease with household hazardous waste materials removed from the waste stream.

Resource Recovery

With the development of the multi-county recycling program, this alternative will increase resource recovery within the counties.

Ultimate Disposal Area Uses

It is anticipated that the Montmorency-Oscoda-Alpena Sanitary Landfill will ultimately be utilized for recreational purposes.

Institutional Arrangements

It is likely that aspects of the educational program will be institutionalized by the various participating agencies.

**ALTERNATIVE 3: MONTMORENCY-OSCODA-ALPENA SANITARY
LANDFILL SERVING MONTMORENCY AND OSCODA COUNTIES WITH
INCREASED RESOURCE RECOVERY INITIATIVES PHASED IN OVER 5 YEARS.**

This alternative utilizes the Montmorency-Oscoda-Alpena Sanitary Landfill (MOASL) for the next 20 year planning period and assumes that all solid waste generated in Montmorency and Oscoda Counties will be disposed of at the landfill. Initially, recycling and composting programs will continue at their present level of operation but will be increased throughout the five year planning period. Backyard composting programs will be promoted and educational efforts will involve utilizing existing organizations for information dissemination. Over the 5 year planning period, Montmorency and Oscoda counties, along with adjacent counties and the private sector will develop a multi-county recycling program. A Material Recovery Facility (MRF) will be developed for central processing and marketing. Recycling compartmentalized containers will be strategically located throughout the counties for convenient use by residents. Composting facilities in Albert, Montmorency, and Big Creek Townships and at the MOASL will continue to be available for residents use, and new sites will be established as determined necessary. Backyard composting programs will continue to be promoted for the rural portions of the county. Education efforts will increase and will be a key component of the program emphasizing reduce, reuse, recycle, and buy recycled.

Technical Feasibility

The technical feasibility of sanitary landfilling is well proven and the most utilized system of solid waste management in the U.S. The technical feasibility of recycling and composting is well proven. There are many existing models from which a program can be designed.

Economic Feasibility

The economic feasibility of this alternative will require additional solid waste to make this a viable option. Alpena County has agreed to jointly own and operate, along with Montmorency and Oscoda counties, the new landfill cell currently in the process of permit approval. The three counties will jointly share in the bond for construction of the new cell. Costs are anticipated to be reimbursed by gate fees.

Initially maintaining resource recovery efforts at current levels will allow time for program development and funding procurement while still providing recycling and composting opportunities to county residents. The economic feasibility of implementing the resource recovery initiatives will require construction, operation, and maintenance costs. Although the costs will vary depending on the type of recycling system that is designed, it is apparent that local as well as federal, state and foundation subsidies will be necessary. Phasing in the resource recovery initiatives over a five year period will make this alternative more economically feasible.

Anticipated Resource Recovery Costs (in the planning stage):

Processing Facility and Equipment: \$30,000 - \$400,000.00

Operation and Maintenance: Will vary dependent upon the type of system implemented. Includes: labor, transportation, materials and equipment costs, building and supplies costs, utilities, etc.

Educational Program: Materials & Technical Assistance: \$15,000 - \$40,000

Composting: \$0 (volunteers or existing staff) - \$5,000.00/year dependent upon volume, how often the compost pile is turned, etc.

Household Hazardous Waste Collection and Disposal: \$5,000 - 10,000+ per year.

Access to Land

The original landfill is situated on a 40 acre site and currently is in the last cell. The counties obtained an additional 40 acres for landfill expansion. The estimated refuse volume of the site is 3,500,000

cubic yards or 20+ years capacity for the three counties. There are sufficient sites available in the counties for construction of the recycling processing center.

Access to Transportation

Access to the landfill is via County Road 487. County Road 487 intersects M-32 in Atlanta five miles north of the landfill and County Road 612 two miles south of the landfill. M-32 has undergone safety and surface improvements over the years. Weight restrictions are in effect, during periods of frost for County Roads 487 and 612.

Effects on Energy

Sanitary landfilling is an energy intensive system. The disposal of materials which required energy to produce, also requires energy to transport to the site and energy to daily mechanically cover the materials. Some energy is conserved by utilizing transfer stations in the more rural areas. Recycling of materials can reduce the overall energy costs for production of goods. Energy savings will be realized by the recycling of materials.

Environmental Impacts

Since this alternative utilizes an existing site, initial environmental impacts have not been considered. The negative environmental impacts primarily concern the development of leachate within the site and the contamination of groundwater. Methane gas can also be a concern, however, technology exists for utilization of gas for operations. Recycling of materials will reduce the overall environmental impacts related to the manufacturing of products.

Public Acceptability

Public acceptability for this alternative is expected to be good since it will keep options available for solid waste collection, and provides for increased recycling and composting opportunities.

Resource Conservation

Conservation of natural resources will occur through the initiation of the multi-county recycling program and increasing the utilization of backyard composting programs.

Waste Reduction

Waste reduction will be achieved through education. Education will be a key component of this alternative and will emphasize reduce, reuse, recycle, and buy recycled.

Pollution Prevention

This alternative will increase pollution prevention by developing a household hazardous waste program. Pollution will decrease with household hazardous waste materials removed from the waste stream.

Resource Recovery

With the development of the multi-county recycling program, this alternative will increase resource recovery within the counties.

Ultimate Disposal Area Uses

It is anticipated that the Montmorency-Oscoda-Alpena Sanitary Landfill will ultimately be utilized for recreational purposes.

Institutional Arrangements

It is likely that aspects of the educational program will be institutionalized by the various participating agencies.

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 A. Following is an overall description of the Selected System:

Selection of the solid waste management system was based on economics, environmental impacts, and sound waste management practices. Alternative 3 was selected based on the above criteria.

The primary solid waste disposal facility for the selected system will be the MOASL with contingency at the Waste Management, Inc. Landfill in Waters, Michigan. All solid waste generated in Montmorency and Oscoda Counties will be disposed of at the MOASL. This alternative utilizes the MOASL for the next 20 year planning period.

Private hauling companies will continue to provide residential, commercial, and industrial service pick-up in Montmorency and Oscoda Counties. Collection of solid waste will continue to be through private agreements with customers.

Initially, recycling and composting operations currently in operation in Montmorency and Oscoda counties will continue at their present level of operation. Backyard composting programs will be promoted for the rest of the rural portions of the county. Educational efforts will involve utilizing existing agencies and organizations for information dissemination. Over the 5 year planning period, Montmorency and Oscoda counties, along with adjacent counties and the private sector will develop a multi-county recycling program for use by their residents. A Material Recovery Facility (MRF) will be developed within the three county area for central processing and marketing. Recycling compartmentalized containers will be strategically located throughout the counties for convenient use by residents. Composting facilities in Albert, Montmorency, and Big Creek Townships and at the MOASL will continue to be available for residents use, and new sites will be established as determined necessary. Backyard composting programs will continue to be promoted for the rural portions of the county. Education efforts will increase and will be a key component of the program emphasizing reduce, reuse, and recycle.

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 ¹	Authorized Quantity/ Daily	Authorized Quantity/ Annual	Authorized Conditions ²
Montmorency	Alpena	MOASL	100 %	100 %	P
Montmorency	Montmorency	MOASL	100 %	100 %	P
Montmorency	Oscoda	MOASL	100 %	100 %	P
Montmorency	Emmet	MOASL	*	*	P, C, O
Montmorency	Cheboygan	MOASL	*	*	P, C, O
Montmorency	Presque Isle	MOASL	*	*	P, C, O
Montmorency	Alcona	MOASL	*	*	P, C, O
Montmorency	Iosco	MOASL	*	*	P, C, O
Montmorency	Ogemaw	MOASL	*	*	P, C, O
Montmorency	Roscommon	MOASL	*	*	P, C, O
Montmorency	Crawford	MOASL	*	*	P, C, O
Montmorency	Otsego	MOASL	*	*	P, C, O
Montmorency	Kalkaska	MOASL	*	*	P, C, O
Montmorency	Grand Traverse	MOASL	*	*	P, C, O
Montmorency	Benzie	MOASL	*	*	P, C, O
Montmorency	Leelenau	MOASL	*	*	P, C, O
Montmorency	Antrim	MOASL	*	*	P, C, O
Montmorency	Charlevoix	MOASL	*	*	P, C, O
Montmorency	Schoolcraft	MOASL	*	*	P, C, O

* The MOASL Authority reserves the right to establish waste hauler allocations into the landfill.

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

2 Authorization indicated by P = Primary Disposal; C = Contingency Disposal; O = 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 ¹	Authorized Quantity/ Daily	Authorized Quantity/ Annual	Authorized Conditions ²
---------------------	---------------------	-------------------------------	----------------------------------	-----------------------------------	---------------------------------------

NOT APPLICABLE

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

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

SELECTED SYSTEM

EXPORT AUTHORIZATION

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

Table 2-A

CURRENT EXPORT VOLUME AUTHORIZATION OF SOLID WASTE

Importing County	Exporting County	Facility Name ¹	Authorized Quantity/ Daily	Authorized Quantity/ Annual	Authorized Conditions ²
Crawford	Montmorency	Waste Management, Inc.	100 %	100%	C
Crawford	Oscoda	Waste Management, Inc.	100 %	100%	C

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

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

SELECTED SYSTEM

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

Importing County	Exporting County	Facility Name ¹	Authorized Quantity/ Daily	Authorized Quantity/ Annual	Authorized Conditions ²
---------------------	---------------------	-------------------------------	----------------------------------	-----------------------------------	---------------------------------------

NOT APPLICABLE

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

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

SELECTED SYSTEM

SOLID WASTE DISPOSAL AREAS

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

Type II Landfill:

Montmorency-Oscoda-Alpena Sanitary Landfill

Waste Management, Inc Landfill in Waters, MI
(Contingency Only)

Type III Landfill:

Incinerator:

Waste-to-Energy Incinerator:

Type A Transfer Facility:

Type B Transfer Facility:

Albert Township
Montmorency Township
Clinton Township
Comins Township
Greenwood Township
Big Creek Township
Elmer Township

Processing Plant:

Proposed (multi-county) Material
Recovery Facility in Alpena County

Waste Piles:

Other:

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.

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill

Facility Name: Montmorency-Oscoda-Alpena Sanitary Landfill

County: Montmorency

Location: Town: 29N

Range: 3E

Section(s): 6

Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Montmorency, Oscoda, and Alpena Counties

Operating Status (check)

Waste Types Received (check all that apply)

<input checked="" type="checkbox"/> open	<input checked="" type="checkbox"/> residential
<input type="checkbox"/> closed	<input checked="" type="checkbox"/> commercial
<input checked="" type="checkbox"/> licensed	<input checked="" type="checkbox"/> industrial
<input type="checkbox"/> unlicensed	<input checked="" type="checkbox"/> construction & demolition
<input checked="" type="checkbox"/> construction permit	contaminated soils
<input type="checkbox"/> open, closure pending	special wastes *
	other:

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

Site Size:

Total area of facility property:	80	acres ¹
Total area sited for use:	80	acres
Total area permitted:	80	acres
Operating:	3-4	acres
Not excavated:	37-40	acres

Current capacity:	3,500,000 yds ³
Estimated lifetime:	30 years
Estimated days open per year:	310 days
Estimated yearly disposal volume:	145,000 yds ³

(if applicable)

Annual energy production:

Landfill gas recovery projects: Will be adding recovery in future

Waste-to-energy incinerators: NA megawatts

¹ Currently in the process of obtaining a construction permit for a new cell
NA -- Not Applicable

FACILITY DESCRIPTIONS -- Contingency Landfill

Facility Type: Type II Sanitary Landfill

Facility Name: Waste Management Inc. of Waters

County: Crawford

Location: Town: 28 N

Range: 8 E

Section(s): 4

Map identifying location included in Attachment Section: Yes

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

Owner: Privately owned by Waste Management Inc.

Operating Status (check)

☒ open
☐ closed
☒ licensed
☐ unlicensed
☐ construction permit
☐ open, 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:

Contaminated soils.

Site Size:

Total area of facility property:	252.2	acres
Total area sited for use:	252.2	acres
Total area permitted:	79.07	acres
Operating:	9.7	acres
Not excavated:	64.87	acres
Current capacity:	8.2 million	yds ³
Estimated lifetime:	+ 20	years
Estimated days open per year:	313	days
Estimated yearly disposal volume:	185,000-200,000	yds ³

Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Albert Township Transfer Station

County: Montmorency

Location: Town: 29 N

Range: 1 E

Section(s): 23

Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Albert Township

Operating Status (check)

☒ open
☐ closed
☒ licensed
☐ unlicensed
☐ construction permit
☐ open, 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: yds³

Estimated lifetime: years

Estimated days open per year: days

Estimated yearly disposal volume: yds³

Annual energy production:

Landfill gas recovery projects: megawatts

Waste-to-energy incinerators: megawatt

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Montmorency Township Transfer Station

County: Montmorency

Location: Town: 32 N

Range: 5 E

Section(s): 30

Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Montmorency Township

Operating Status (check)

☒ open
closed
☒ licensed
unlicensed
construction permit
open, 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: yds3
Estimated lifetime: years
Estimated days open per year: days
Estimated yearly disposal volume: yds3

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

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Clinton Township Transfer Station

County: Oscoda

Location: Town: 28 N

Range: 3 E

Section(s): 22

Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Clinton Township

Operating Status (check)

☒ open
closed
☒ licensed
unlicensed
construction permit
open, 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: yds3
Estimated lifetime: years
Estimated days open per year: days
Estimated yearly disposal volume: yds3

Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Comins Township Transfer Station

County: Oscoda

Location: Town: 27 N

Range: 3 E

Section(s): 18

Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Comins Township

Operating Status (check)

☒ open
☐ closed
☒ licensed
☐ unlicensed
☐ construction permit
☐ open, 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: yds³

Estimated lifetime: years

Estimated days open per year: days

Estimated yearly disposal volume: yds³

Annual energy production:

Landfill gas recovery projects: megawatts

Waste-to-energy incinerators: megawatt

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Elmer Township Transfer Station

County: Oscoda

Location: Town: 27 N

Range: 1 E

Section(s): 23

Map identifying location included in Attachment Section: No

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

Owner: Publicly owned by Elmer Township

Operating Status (check)

☒ open
closed
☒ licensed
unlicensed
construction permit
open, 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: yds3
Estimated lifetime: years
Estimated days open per year: days
Estimated yearly disposal volume: yds3

Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Greenwood Township Transfer Station

County: Oscoda

Location: Town: 28 N

Range: 1 E

Section(s): 34

Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Greenwood Township

Operating Status (check)

☒ open
☐ closed
☒ licensed
☐ unlicensed
☐ construction permit
☐ open, 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: yds3
Estimated lifetime: years
Estimated days open per year: days
Estimated yearly disposal volume: yds3

Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Big Creek Township Transfer Station

County: Oscoda

Location: Town: 26 N

Range: 2 E

Section(s): 15

Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Big Creek Township

Operating Status (check) Waste Types Received (check all that apply)

<input checked="" type="checkbox"/> open	<input checked="" type="checkbox"/> residential
<input type="checkbox"/> closed	<input type="checkbox"/> commercial
<input checked="" type="checkbox"/> licensed	<input type="checkbox"/> industrial
<input type="checkbox"/> unlicensed	<input type="checkbox"/> construction & demolition
<input type="checkbox"/> construction permit	<input type="checkbox"/> contaminated soils
<input type="checkbox"/> open, closure pending	<input type="checkbox"/> special wastes *
	<input type="checkbox"/> 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:	yds ³
Estimated lifetime:	years
Estimated days open per year:	days
Estimated yearly disposal volume:	yds ³

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

SELECTED SYSTEM

SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION

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

The selected system provides the ability to maintain the current collection services with primary solid waste disposal at the Montmorency-Oscoda-Alpena Sanitary Landfill. Solid waste will continue to be collected by private haulers. The five haulers currently serving Montmorency and Oscoda Counties will continue to provide residential, commercial, and industrial service pick up. Collection of solid waste will continue to be arranged through private agreements with the customers. The selected system will continue to utilize Type B Transfer Stations throughout the counties.

Existing transportation routes will continue to be utilized to transport solid waste to the Montmorency-Oscoda-Alpena Sanitary Landfill. Access to the landfill is via County Road 487. County Road 487 intersects M-32 in Atlanta five miles north of the landfill and County Road 612 two miles south of the landfill.

SELECTED SYSTEM

RESOURCE CONSERVATION EFFORTS:

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

Effort Description	Est. Diversion Tons/Yr		
	<u>Current</u>	<u>5th yr</u>	<u>10th yr</u>
Recycling	211	379	828
Education	Negligible	609	1,219
Composting	75	122	267

Montmorency and Oscoda Counties are committed to resource conservation efforts to reduce overall dependency on the landfill. Initial resource conservation efforts will maintain current recycling and composting programs at their present level. Over the 5 year planning period, resource conservation efforts will be increased to include the implementation of a multi-county recycling program, enhancement of the existing composting program, development of a recycled products procurement program, and the initiation of a comprehensive education program.

Initially, recycling and composting operations currently in operation in Montmorency and Oscoda counties will continue at their present level of operation. Backyard composting programs will be promoted for the rural portions of the county. Over the 5 year planning period, Montmorency and Oscoda counties, along with adjacent counties and the private sector will develop a multi-county recycling program for use by their residents. A Material Recovery Facility will be developed within the three county area for central processing and marketing. Recycling compartmentalized containers will be strategically located throughout the counties for convenient use by residents. Possible container locations include: Hillman Township, Montmorency Township, Briley Township, Vienna Township, Canada Creek Ranch, along M-33, Glen's Market in Lewiston (Albert Township), Fairview and Mio. Composting facilities in Albert and Big Creek Townships and at the MOASL will continue to be available for residents use, and new sites will be established as determined necessary. Backyard composting programs will continue to be promoted for the rural portions of the county.

The use of recycled products is paramount to increasing the demand and resultant markets for recycled products. Montmorency and Oscoda Counties will analyze the feasibility of procurement of recycled products. Joint purchasing between county organizations and departments will be explored as a means of making it locally affordable.

The counties will examine the possibility of developing a collection program for used oil and other products that may not be included in the recycling program. They will also explore the possibility of developing a local market for used tires generated in northern Michigan in conjunction with the Hillman Power Plant.

Public Education is a key component of the overall program. Public education will be accomplished in coordination with municipalities, MSU Extension, Conservation Districts, Natural Resource Conservation Service, and the Health Department, NEMCOG, and other area organizations.

WASTE REDUCTION, RECYCLING, & COMPOSTING PROGRAMS:

Volume Reduction Techniques

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

Technique Description	Est. Air Space Conserved Yds ³ /Yr		
	<u>Current</u>	<u>5 th yr</u>	<u>10 th yr</u>
Compaction	unknown		

The only volume reduction technique presently utilized in Montmorency and Oscoda Counties is compaction. Compaction is used by commercial hauling trucks for volume reduction of solid waste. The MOASL also employs volume reduction techniques in their daily landfilling process.

Shredding, baling, incineration and other volume reduction techniques are not practiced in Montmorency or Oscoda Counties. There are no plans to increase volume reduction efforts within the next planning period.

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.

Recycling Portion of Wastestream

Material	%	2005	5% Goal	2010	10% Goal
Paper	40	4,874 T/Yr	244 T/Yr	5,341 T/Yr	534 T/Yr
Plastics	10	1,218 T/Yr	61 T/Yr	1,335 T/Yr	134 T/Yr
Glass	5	609 T/Yr	31 T/Yr	668 T/Yr	67 T/Yr
Metals	6	731 T/Yr	37 T/Yr	801 T/Yr	80 T/Yr
Aluminum	1	122 T/Yr	6 T/Yr	134 T/Yr	13 T/Yr

Composting:

	2005	25% Goal	2010	50% Goal
4% of Wastestream	487 T/Yr	122 T/Yr	534 T/Yr	267 T/Yr

Education

5 Year Goal = 5% Reduction of solid waste through educational efforts.

10 Year Goal = 5% Reduction of solid waste through educational efforts.

The above chart shows the type and volume of material that potentially may be available for recycling and composting. The overall goal of the resource recovery program is to reduce dependency on landfills. Public support for the development and implementation of a resource recovery program in Montmorency and Oscoda Counties is high. It is understood that in order to implement a program, financial support is necessary. However, if the presently good economic conditions change, then support for implementing a program could diminish. However, the benefits of reducing the amount landfilled and the savings derived from the reuse and recycling of materials have direct social, environmental and economic benefits.

Impediments to recycling include the following:

- * Long Distance to Markets
- * Unavailable Markets
- * Local Financial Support

It is anticipated that the above impediments to recycling can be overcome by increasing the volume of materials. This can be accomplished through the development of a multi-county approach. In addition, the program will strive to achieve a high quality, dependable product. This will attract long term relationships with markets dependant on volume and quality recyclable materials.

Most of Montmorency and Oscoda Counties are primarily rural. Backyard composting is the best method for leaf and yard waste disposal in these areas and will be promoted through educational outreach. Elimination of household hazardous materials in the waste stream is a priority as well. In coordination with the recycling program, a collection program for used oil and other products that may not be included in the recycling program will be examined. Used tires are of particular concern and possibilities for waste-to energy utilizing used tires will be explored in conjunction with Hillman Power Plant. Funding mechanisms will be explored for program implementation.

☒ Recycling programs within the County are feasible. Details of existing and planned program 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.

☐ 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, & 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, & 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.

Various recycling programs were reviewed prior to the selection of the selected program. Members of the Solid Waste Planning Committee and the MOASL Authority have been attending meetings with representatives from adjacent counties in northeast Michigan that are interested in developing a multi-county recycling program. The committee has organized under the auspices of the MOASL Authority and is named the Northeast Michigan Recycling Alliance. A recycling tour was conducted of the Emmet County Recycling Center, and members have visited other recycling centers to gather information on the best recycling system for their counties.

After reviewing options, the Northeast Michigan Recycling Alliance decided to develop a program based on the Emmet County Recycling Center with strategically located recycling drop-off centers in the counties and materials taken to a central Material Recovery Facility (MRF). It is likely that the MRF will be located in or around the City of Alpena. It is expected that the MRF will expand as adjacent counties join in the program.

Montmorency and Oscoda counties plan initially to continue with present recycling efforts while the multi-county recycling program is implemented. Over the 5 year planning period, Montmorency and Oscoda counties will work with adjacent counties and the private sector to develop the multi-county recycling program. Recycling compartmentalized containers will be strategically located throughout the counties for convenient use by residents. Possible container locations include Hillman Township, Montmorency Township, Briley Township, Vienna Township, Canada Creek Ranch, along M-33, Glen's Market in Lewiston (Albert Township), Elmer Township, Fairview and Mio. The drop-off sites will be selected based on convenience for the majority of the people in the county.

Initially, composting operations currently in operation in Montmorency and Oscoda counties will continue at their present level of operation. Composting facilities in Albert, Montmorency, Big Creek and Elmer Townships and at the MOASL will continue to be available for residents use, and backyard composting programs will be promoted for the rural portions of the county. As the program grows, new composting sites will be established as determined necessary.

Financing for expansion of the recycling program will be through a combination of local, grant and user fee funding. Local initiatives will also be pursued from local donations (such as adopt a container program). Grant funding from State and Federal sources will be pursued for equipment purchase.

SELECTED SYSTEM

TABLE III-1

EXISTING RECYCLING

<u>Program Name</u>	<u>Service Area</u> ¹	<u>Public/ Private</u>	<u>Collection Point</u> ³	<u>Collection Frequency</u> ⁴	<u>Materials Collected</u> ⁵	<u>Program Management Responsibilities</u> ² <u>Development</u> <u>Operation</u> <u>Evaluation</u>
Montmorency County Recyclers	Montmorency County	Private	d		A B C D E F	Montmorency County Organization of Recyclers
Oscoda County Recyclers	Oscoda County	Private	d		A B C D E F	Oscoda County Recyclers

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

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

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

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

4 Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = spring, Su = summer; Fa = fall; Wi = winter.

5 Identified by the materials collected by listing of the letter located by that material type. A = plastics; B = newspaper; C = corrugated containers; D = other paper; E = glass; F = metals; P = pallets; J = construction/demolition; K = tires; L1, L2 etc. = as identified on page 25.

TABLE III-2

EXISTING COMPOSTING

<u>Program Name</u>	<u>Service Area</u> ¹	<u>Public/ Private</u>	<u>Collection Point</u> ³	<u>Collection Frequency</u> ⁴	<u>Materials Collected</u> ⁵	<u>Program Management</u>	<u>Responsibilities</u> ²
						<u>Development</u>	<u>Operation</u> <u>Evaluation</u>
MOASL Composting Program	Montmorency and Oscoda Counties	Public	d		G L W	2	2 2

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

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

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

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

4 Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = spring; Su = summer; Fa = fall; Wi = winter.

5 Identified by the materials collected by listing of the letter located by that material type. G = grass clippings; L = leaves; F = food; W = wood; P = paper; S = municipal sewage sludge; A = animal waste/bedding; M = municipal solid waste; L1, L2 etc. = as identified on page 25.

SELECTED SYSTEM

TABLE III-3

EXISTING 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> ¹	<u>Public/ Private</u>	<u>Collection Point</u> ³	<u>Collection Frequency</u> ⁴	<u>Materials Collected</u> ⁵	<u>Program Management</u>	<u>Responsibilities</u> ²
						<u>Development</u>	<u>Operation</u> <u>Evaluation</u>

NONE

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

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

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

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

4 Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = spring; Su = summer; Fa = fall; Wi = winter.

5 Identified by the materials collected by listing of the letter located by that material type. AR = aerosol cans; A = automotive products except used oil, oil filters and 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>	<u>Service Area</u> ¹	<u>Public/ Private</u>	<u>Collection Point</u> ³	<u>Collection Frequency</u> ⁴	<u>Materials Collected</u> ⁵	<u>Program Management Development</u>	<u>Responsibilities</u> ² <u>Operation</u>	<u>Evaluation</u>
Northeast MI Recycling Alliance	Alpena Montmorency Oscoda Alcona Presque Isle	Private & Public	d	w	A, B, C, E F	2, 5	2, 5	2, 5

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

-
- 1 Identified by where the program will be offered. If throughout the planning area then listed by planning area; if only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.
- 2 Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 24); 5 = Private Owner/Operator; 6 = Other (Identified on page 24).
- 3 Identified by c = curbside; d = dropoff; o = onsite; and if other, explained.
- 4 Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = spring; Su = summer; Fa = fall; Wi = winter.
- 5 Identified by the materials collected by listing of the letter located by that material type. A = plastics; B = newspaper; C = corrugated containers; D = other paper; E = glass; F = metals; P = pallets; J = construction/demolition; K = tires; L1, L2 etc. = as identified on page 25.

TABLE III-5

PROPOSED COMPOSTING

<u>Program Name</u>	<u>Service Area</u> ¹	<u>Public/ Private</u>	<u>Collection Point</u> ³	<u>Collection Frequency</u> ⁴	<u>Materials Collected</u> ⁵	<u>Program Management Development</u>	<u>Responsibilities</u> ² <u>Operation</u>	<u>Evaluation</u>
MOASL	Montmorency Oscoda	Public	d	d	G, L, W	6	6	6
Albert Twp	Albert Twp	Public	d	Sp, Fa	L	6	6	6
Big Creek Twp	Mio area	Public	d	Sp, Fa	L	6	6	6

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

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

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

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

4 Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = spring; Su = summer; Fa = fall; Wi = winter.

5 Identified by the materials collected by listing of the letter located by that material type. G = grass clippings; L = leaves; F = food; W = wood; P = paper; S = municipal sewage sludge; A = animal waste/bedding; M = municipal solid waste; L1, L2 etc. = as identified on page 25.

TABLE III-6

PROPOSED SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS

<u>Program Name</u>	<u>Service Area</u> ¹	<u>Public/ Private</u>	<u>Collection Point</u> ³	<u>Collection Frequency</u> ⁴	<u>Materials Collected</u> ⁵	<u>Program Management Development</u>	<u>Responsibilities</u> ² <u>Operation</u>	<u>Evaluation</u>
MOASL Authority	Montmorency Oscoda	Public	d	Biannual	AR A AN B2 C H P PS PH	6	6	6
(To be Determined)								

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

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

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

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

4 Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = spring; Su = summer; Fa = fall; Wi = winter.

5 Identified by the materials collected by listing of the letter located by that material type. AR = aerosol cans; A = automotive products except used oil, oil filters and 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:

Thunder Bay Watershed Council

Montmorency County Conservation Club

Friends of Northeast Michigan Ecosystem

NE Michigan Conservation Club

Michigan United Conservation Clubs

Other:

Health Department: Education Dissemination

NRCS: Education Dissemination

MSU Extension: Education Dissemination

Townships: White Goods Program, Household Hazardous Waste Program

Montmorency County SCD: Education Dissemination

Oscoda County SCD: Education Dissemination

MOASL: Composting Program

Oscoda County Recyclers: Recycling Program

Montmorency County Organization of Recyclers: Education Dissemination

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.

<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:		61	134	G. GRASS AND LEAVES	75	122	267
B. NEWSPAPER:				H. TOTAL WOOD WASTE:	-		
C. CORRUGATED CONTAINERS:				I. CONSTRUCTION AND DEMOLITION:			
D. TOTAL OTHER PAPER:		244	534	J. FOOD AND FOOD PROCESSING:			
E. TOTAL GLASS:		31	67	K. TIRES:	-	200	245
F. OTHER MATERIALS:				L. TOTAL METALS:			
F1.				F3. Metals.	-	37	80
F2.				F4. Aluminum	-	6	13

MARKET AVAILABILITY FOR COLLECTED MATERIALS:

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

Collected Material:	In-State Markets	Out-of-State Markets	Collected Material	In-State Markets	Out-of-State Markets
---------------------	------------------	----------------------	--------------------	------------------	----------------------

Sufficient markets exist for properly sorted and baled materials: plastics, newspaper, metal, corrugated cardboard and glass.

A. TOTAL PLASTICS:	G. GRASS AND LEAVES:
B. NEWSPAPER:	H. TOTAL WOOD WASTE:
C. CORRUGATED CONTAINERS:	I. CONSTRUCTION AND DEMOLITION:
D. TOTAL OTHER PAPER:	J. FOOD AND FOOD PROCESSING
E. TOTAL GLASS:	K. TIRES:
F. OTHER MATERIALS:	L. TOTAL METALS:
F1.	F3.
F2.	F4.

SELECTED SYSTEM

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> ¹	<u>Delivery Medium</u> ²	<u>Targeted Audience</u> ³	<u>Program Provider</u> ⁴
1	R, N, O, F, E	p, b s = K-12	EX, DPA, EG= Thunder Bay Watershed Council
2	N, O, F, E	p	EX, O= SCD, MOASL, NRCS
3	R, N, O, F	p	HD
4	N, O, F, E	p	EX, DPA, EG= Thunder Bay Watershed Council, O= SCD, NRCS
5	N, O, F, E	p	EX, DPA, EG= Thunder Bay Watershed Council, O= SCD, NRCS

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

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

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

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

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.

TABLE III-7

<u>Management Components</u>	<u>Timeline</u>
Recycling Program	
Program Development	1999-2001
Program Implementation	2002-Ongoing
Resource Conservation Education Program	
Recycling Education Program Development	1999-2001
Recycling Education Program Implementation	2002-Ongoing
Composting Education Program Development	1999-2001
Composting Education Program Implementation	2002-Ongoing
Household Hazardous Waste Education Program Development	1999-2001
Household Hazardous Waste Education Program Implementation	2002-Ongoing
Reduce, Reuse Education Program Development	1999-2001
Reduce, Reuse Education Program Implementation	2002-Ongoing
Household Hazardous Waste Disposal Program	
Program Development	1999-2001
Program Implementation	2002-Ongoing
Composting Program	
Program Development	1999-2001
Program Implementation	2002-Ongoing
Township Clean-up Day Program	
Program Development	1999-2001
Program Implementation	2002-Ongoing

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.

Type II Sanitary Landfill may not be sited by this Plan. Any and all expansions of the MOASL are consistent with this plan.

Type III landfills may not be sited by this Plan.

Type A Transfer Stations may not be sited by this Plan.

SITING CRITERIA AND PROCESS

The following process describes the criteria and procedures to be used to site solid waste disposal facilities and determine consistency with this Plan.

Not Applicable. Montmorency and Oscoda Counties have more than ten years of capacity available for solid waste disposal. Montmorency-Oscoda-Alpena Sanitary Landfill, the primary solid waste disposal facility, has a current capacity of 3,500,00 yds³ and an estimated lifetime of 30 years. Additionally, the contingency disposal facility, Waste Management, Inc. Landfill in Waters, has a current capacity of 8.2 million yds³ and an estimated lifetime of more than 20 years. Documentation that Montmorency and Oscoda Counties have access to the disposal capacity at the Montmorency-Oscoda-Alpena Sanitary Landfill and the Waste Management, Inc. Landfill in Waters is contained in Attachment B.

SELECTED SYSTEM

SOLID WASTE MANAGEMENT COMPONENTS

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

Montmorency and Oscoda County Board of Commissioners

The Montmorency and Oscoda County Board of Commissioners shall be responsible for the implementation and enforcement of the Montmorency and Oscoda County Solid Waste Management Plan. The MOASL Authority will report to the Montmorency and Oscoda County Board of Commissioners any potential violations in regards to solid waste disposal. The Montmorency and Oscoda County Board of Commissioners may direct the Prosecutor to take such legal action as may be necessary to enforce the plan.

The Montmorency and Oscoda County Board of Commissioners, with County Board approval shall take such actions as necessary to secure funds to provide for the implementation and enforcement of the plan including, but not limited too, applying for federal, state and foundation grants, or other funding sources that may be available, including the levy of a special millage, or solid waste surcharge.

The Montmorency and Oscoda County Board of Commissioners is also responsible for any legislative actions that may be necessary to implement the goals of the plan. This includes such as: flow control, recycling incentives, special hazardous waste collection, and related policy in harmony with the state statute.

Northeast Michigan Council of Governments (NEMCOG)

NEMCOG will continue to provide assistance for solid waste planning and implementation for the County Board of Commissioners, as funds are available. NEMCOG will assist with grant writing to secure the funds for plan implementation, upon request, and will continue to promote regional coordination with recycling and other resource recovery efforts. NEMCOG agrees to assist with bookkeeping for the Northeast Michigan Recycling Alliance. Regional and statewide solid waste issues will continue to be monitored by the Council. NEMCOG is the designated planning agency for plan update.

Montmorency-Oscoda Landfill Authority

The MOASL Authority will provide reports to the Alpena, Montmorency and Oscoda County Board of Commissioners on the landfill volumes and county origin on a monthly basis. The MOASL Authority will provide the institutional structure for the multi-county recycling effort. Efforts will continue by the landfill authority towards the implementation of resource recovery initiatives and household hazardous waste recovery programs. The Authority will coordinate funding efforts for resource recovery programs with the Alpena, Montmorency and Oscoda County Board of Commissioners.

Montmorency and Oscoda County Conservation District

The Montmorency and Oscoda County Conservation Districts will provide technical assistance for public education, recycling, composting and natural resource conservation.

Natural Resource Conservation Service

The Natural Resource Conservation Service will assist with dissemination of information and literature regarding recycling, composting and household hazardous waste collection programs.

MSU Extension

MSU Extension will assist with public educational and promotional programs necessary for implementing various components of the plan, including recycling, composting and household hazardous waste collection programs. MSU Extension will assist with dissemination of information and literature designed to inform the public on matters related to recycling, resource recovery, and conservation.

Montmorency County Conservation Club

The Conservation Club will assist with educational information dissemination regarding recycling, composting and household hazardous waste disposal programs.

Thunder Bay River Watershed Council

The Thunder Bay Watershed Council will assist with educational information dissemination regarding recycling, composting, land use and household hazardous waste disposal programs.

NE Michigan Conservation Club

The NE Michigan Conservation Club will assist with educational information dissemination regarding recycling, composting, land use and household hazardous waste disposal programs.

Friends of Northeast Michigan Ecosystems

Friends of Northeast Michigan Ecosystems will provide financial aid, education and volunteer efforts to make recycling, reuse and composting a reality.

*** Involvement is not limited to these groups.**

SELECTED SYSTEM

IDENTIFICATION OF RESPONSIBLE PARTIES

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

Resource Conservation:

Source or Waste Reduction -

Will achieve through educational activities in partnership with local organizations.

Product Reuse -

Will achieve through educational activities in partnership with local organizations

Reduced Material Volume -

Will achieve through educational activities in partnership with local organizations.

Increased Product Lifetime -

Will achieve through educational activities in partnership with local organizations.

Decreased Consumption -

Will achieve through educational activities in partnership with local organizations.

Resource Recovery Programs:

Composting -

MOASL Authority

Albert Township

Big Creek Township

Montmorency Township

Elmer Township

Recycling -

Montmorency County Organization of Recyclers

Oscoda County Recyclers

Northeast Michigan Recycling Alliance

Energy Production -

None

Volume Reduction Techniques:

MOASL Authority

Collection Processes:

Montmorency County

Oscoda County

SELECTED SYSTEM

Transportation:

None

Disposal Areas:

Processing Plants –

MOASL Authority

Incineration -

None

Transfer Stations -

Townships: Albert, Big Creek, Clinton, Comins, Elmer, Greenwood, Montmorency

Sanitary Landfills -

MOASL Authority

Montmorency County Board of Commissioners

Oscoda County Board of Commissioners

Alpena County Board of Commissioners

Ultimate Disposal Area Uses:

Recreational uses

Local Responsibility for Plan Update Monitoring & Enforcement:

Montmorency County Board of Commissioners

Oscoda County Board of Commissioners

MOASL Authority

Educational and Informational Programs:

NRCS

Montmorency County Health Department

Oscoda County Health Department

MSU Extension

Townships

Montmorency Conservation District

Oscoda Conservation District

Friends of Northeast Michigan Ecosystems

Documentation of acceptance of responsibilities is contained in Attachment H.

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:

X 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.

Montmorency County Flow Control Ordinance: Regulates the disposal of solid waste generated in Montmorency County to be disposed of at the Montmorency – Oscoda Sanitary Landfill.

Oscoda County Flow Control Ordinance: Regulates the disposal of solid waste generated in Oscoda County to be disposed of at the Montmorency – Oscoda Sanitary Landfill.

Township of Loud, Ordinance No. 1991-01: An ordinance imposing a solid waste impact fee and a solid waste incinerator ash impact fee to be used for the public health, safety or welfare of Loud Township, providing for collection of the impact fees and imposing a penalty for the violation of this ordinance.

Surcharge on Waste Disposal at MOASL: A surcharge fee on waste disposed at the MOASL is being investigated for the purpose of supporting the multi-county recycling effort.

 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:

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

Regulations meeting these qualifications may be adopted and implemented by the appropriate governmental unit without additional authorization from, or formal amendment to, the Solid Waste Management Plan. Allowable areas of local regulation include:

1. Certain ancillary construction details, such as landscaping and screening.
2. Hours of operation.
3. Noise, litter, odor and dust control.
4. Operation records and reports.
5. Composting and recycling (i.e. volume based pricing ordinance, no burn ordinance).

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.

X 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:

Montmorency and Oscoda Counties have more than ten years of capacity available for solid waste disposal. Montmorency-Oscoda-Alpena Sanitary Landfill, the primary solid waste disposal facility, has a current capacity of 3,500,00 yds³ and an estimated lifetime of 30 years. Additionally, the contingency disposal facility, Waste Management, Inc. Landfill in Waters, has a current capacity of 8.2 million yds³ and an estimated lifetime of more than 20 years. Documentation that Montmorency and Oscoda Counties have access to the disposal capacity at the Montmorency-Oscoda-Alpena Sanitary Landfill and the Waste Management, Inc. Landfill in Waters is contained in Attachment B.

APPENDIX A

ADDITIONAL INFORMATION

REGARDING THE

SELECTED

SYSTEM

APPENDIX A

EVALUATION OF RECYCLING

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

Recycling and composting rate high public acceptability. Volume reduction through recycling and composting can be achieved in Montmorency and Oscoda Counties, however, with the current markets, subsidy for program success may be necessary. A multi-county recycling effort would be most cost-effective for the region as a higher volume of materials would provide a better chance of a break-even operation. Public support for increasing resource recovery within Montmorency and Oscoda counties is high. It is understood that in order to implement a program, financial support is necessary. Although, if the presently good economic conditions change, then support for implementing a program could diminish. However, the benefits of reducing the amount landfilled and the savings derived from the reuse and recycling of materials have direct social, environmental and economic benefits.

Impediments to recycling include the long distance required to transport goods to markets, the sometimes unavailable markets, and lack of local financial support. Currently, the Montmorency County Organization of Recyclers and the Oscoda County Recyclers provide drop-off locations for recycling paper, some plastics, and metals. Several difficulties exist in increasing recycling in Montmorency and Oscoda Counties, such as low volume, especially in rural areas, high costs of transporting materials to the market, lack of a large centralized collection/storage site, and lack of recycling equipment. It is anticipated that the above impediments to recycling can be overcome by increasing the volume of materials. This can be accomplished through the development of a multi-county approach. In addition, the program will strive to achieve a high quality, dependable product. This will attract long term relationships with markets dependant on volume and quality recyclable materials.

The technical feasibility of recycling is well proven. Public health concerns in regards to groundwater contamination and methane gas production will be reduced with increasing recycling, as less material will be landfilled. Recycling reduces the dependency on landfills, the environmental impacts associated with landfilling and the overall energy needed to produce products from raw materials.

Composting is a well proven means of disposing of yard wastes. Composting is the least costly and least energy intensive method of disposing of solid waste, especially in a rural region. Composting provides a reusable resource with economic value and can be implemented individually or on a county-wide basis. Public health impacts are minimized due to a reduction in the amount of waste being landfilled. Due to the reduction of wastes being landfilled, environmental health impacts at the landfill, such as leachate formation and potential ground water contamination, are minimized. Composting reduces the amount of energy required to transport and landfill yard wastes.

APPENDIX A

DETAILED FEATURES OF RECYCLING AND COMPOSTING PROGRAMS:

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

Recyclable component of waste stream (1980 NEMCOG Solid Waste Stream Assessment)

Material	% of waste stream	Amount of waste stream (tons/day)	Amount recycled 25% participation (tons/day)	Amount recycled 10 % participation (tons/day)
Paper	48%	14.6	3.6	1.5
Plastics	9.2%	2.8	0.7	0.3
Metals	6.6%	2.0	0.5	0.2
Glass	3.3%	1.0	0.3	0.1

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:

Members of the Montmorency and Oscoda Counties Solid Waste Committee have been participating with the Northeast Michigan Recycling Alliance to develop a comprehensive program for the multi-county area. Site visits of rural recycling programs have been conducted to determine the type of program and equipment needs. Different types of equipment that have been used successfully in a rural program are being reviewed. Equipment needs for the multi-county program are being assessed and costs are being investigated.

Proposed Programs:

Selection of the equipment that will be used in the proposed recycling program will be based on information gathered at the site visits of rural recycling programs. Recycling compartmentalized containers will be strategically located throughout the counties, with a centralized processing center for materials processing. Future recycling equipment selections will be made based on the growing needs of the program.

Site Availability & Selection

Existing Programs:

The processes used to select the location for the Material Recovery Facility (MRF) include reviewing sites that are presently available within Alpena, Montmorency and Oscoda Counties, such as MOASL, and sites that are available in other counties that may join a multi-county recycling effort. The feasibility of utilizing these sites will be assessed. The drop-off sites will be selected based on convenience, and accessibility for the majority of the people in the target area.

Proposed Programs:

If it is determined that none of the presently available sites are suitable, then the committee will investigate additional sites that could be utilized. Future recycling site location selections will be made based on the growing needs of the program.

APPENDIX A

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.

Existing Programs:

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

The existing composting programs do not currently monitor for these parameters.

Proposed Programs:

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

None at this time.

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 Montmorency County Board of Commissioners and the Oscoda County Board of Commissioners are ultimately responsible for implementing the Solid Waste Management Plan, as part of their duties as general governance. The Board of Commissioners will coordinate the solid waste implementation activities with local municipalities, agencies, organizations, and planning commissions. The Board of Commissioners has charged the township planning commissions to be aware of any pertinent ordinances or approved land use plans within the county, and any pertinent restrictions or requirements contained in plans for air quality, water quality, or waste management which may be required to meet state or federal standards. Any county-level decisions affecting current or anticipated programs for solid waste management, air quality, water quality or land use planning will be made only after thorough consultation with the townships planning commissions.

APPENDIX A

COSTS & FUNDING:

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

System Component	Estimated Costs	Potential Funding Sources
<u>Resource Conservation Efforts</u>	\$20,000	User Fees Surcharge Community Foundations State Grant Programs Federal Grant Programs
<u>Resource Recovery Programs</u> (Material Recovery Facility)	\$50,000-\$500,000	Inkind Sources Community Foundations State Grant Programs Federal Grant Programs
<u>Volume Reduction Techniques</u>	\$5,000	Inkind Sources Community Foundations State Grant Programs Federal Grant Programs
<u>Collection Processes</u>	none	
<u>Transportation</u>	none	
<u>Disposal Areas</u>	none-MOASL Authority	Tipping Fees
<u>Future Disposal Area Uses</u>	unknown	
<u>Management Arrangements</u>	will be determined	
<u>Educational & Informational Programs</u>	\$5,000-\$30,000	Inkind Sources Community Foundations State Grant Programs Federal Grant Programs

Costs and funding sources for the recycling program are currently in the development stage. Funding sources to be explored will include: surcharges, user fees, and a special millage.

Local agencies such as: Montmorency and Oscoda Counties Conservation Districts, District #4 Health Department, Natural Resource Conservation Service, MSU Extension, and the Thunder Bay Watershed Council will provide outreach activities through existing work activities. Material will be available at these various offices, and disseminated through various newsletters. Funding will be sought through local foundations to assist with the costs of development and printing of educational materials.

EVALUATION SUMMARY OF THE SELECTED SYSTEM

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

Selection of the solid waste management system was based on which system was best for the residents of Montmorency and Oscoda Counties. The counties selected a solid waste management system that is a combination of the two alternatives. The primary solid waste disposal facility for the selected system will be the MOASL with contingency at the Waste Management, Inc. Landfill in Waters, Michigan. All solid waste generated in Montmorency and Oscoda Counties will be disposed of at the MOASL. Private hauling companies will continue to provide residential, commercial, and industrial service pick-up in Montmorency and Oscoda Counties and Type B Transfer Stations would be available. Initially, recycling and composting operations currently in operation in Montmorency and Oscoda counties will continue at their present level of operation. Backyard composting programs will be promoted for the rest of the unpopulated portions of the county. Educational efforts will involve utilizing existing agencies and organizations for information dissemination. Over the five year planning period, Montmorency and Oscoda counties, along with adjacent counties and the private sector will develop a multi-county recycling program for use by their residents. A Material Recovery Facility (MRF) will be developed within the three county area for central processing and marketing. Recycling compartmentalized containers will be strategically located throughout the counties for convenient use by residents. Composting facilities in Albert, Big Creek, Montmorency, Townships and at the MOASL will continue to be available for residents use, and new sites will be established as determined necessary. Backyard composting programs will continue to be promoted for the rural portions of the county. Household hazardous waste days and the possibility of a permanent collection center at the MOASL will be explored to provide a means of alternate disposal of household hazardous waste. Education efforts will increase and will be a key component of the program emphasizing reduce, reuse, and recycle.

Technical Feasibility

The technical feasibility of sanitary landfilling is well proven and the most utilized system of solid waste management in the U.S. The technical feasibility of recycling and composting is well proven. There are many existing models from which a program can be designed.

Economic Feasibility

The economic feasibility of this alternative will require additional solid waste to make this a viable option. Alpena County has agreed to jointly own and operate, along with Montmorency and Oscoda counties, the new landfill cell currently in the process of permit approval. The three counties will

jointly share in the bond for construction of the new cell. Costs are anticipated to be reimbursed by gate fees.

Initially maintaining resource recovery efforts at current levels will allow time for program development and funding procurement while still providing recycling and composting opportunities to county residents. The economic feasibility of implementing the resource recovery initiatives will require construction, operation, and maintenance costs. Although the costs will vary depending on the type of recycling system that is designed, it is apparent that local as well as federal, state and foundation subsidies will be necessary. Phasing in the resource recovery initiatives over a five year period will make this alternative more economically feasible.

Anticipated Resource Recovery Costs (in the planning stage):

Processing Facility and Equipment: \$30,000 - \$400,000.00

Operation and Maintenance: Will vary dependant upon the type of system implemented. Includes: labor, transportation, materials and equipment costs, building and supplies costs, utilities, etc.

Educational Program: Materials & Technical Assistance: \$15,000 - \$40,000

Composting: \$0 (volunteers or existing staff) - \$5,000.00/year dependant upon volume, how often the compost pile is turned, etc.

Household Hazardous Waste Collection and Disposal: \$5,000 - 10,000+ per year.

Access to Land

The original landfill is situated on a 40 acre site and currently is in the last cell. The counties obtained an additional 40 acres for landfill expansion. The estimated refuse volume of the site is 3,500,000 cubic yards or 20+ years capacity for the three counties. There are sufficient sites available in the counties for construction of the recycling processing center.

Access to Transportation

Access to the landfill is via County Road 487. County Road 487 intersects M-32 in Atlanta five miles north of the landfill and County Road 612 two miles south of the landfill. M-32 has undergone safety and surface improvements over the years. Weight restrictions are in effect, during periods of frost for County Roads 487 and 612.

Effects on Energy

Sanitary landfilling is an energy intensive system. The disposal of materials which required energy to produce, also requires energy to transport to the site and energy to daily mechanically cover the materials. Some energy is conserved by utilizing transfer stations in the more rural areas.

Recycling of materials can reduce the overall energy costs for production of goods. Energy savings will be realized by the recycling of materials and the overall energy needed to produce products from raw materials.

Composting is a well proven means of disposing of yard wastes. Composting is the least costly and least energy intensive method of disposing of solid waste, especially in a rural region. Composting provides a reusable resource with economic value and can be implemented individually or on a county-wide basis.

Environmental Impacts

Since this alternative utilizes an existing site, initial environmental impacts have not been considered. The negative environmental impacts primarily concern the development of leachate within the site and

the contamination of groundwater. Methane gas can also be a concern, however, technology exists for utilization of gas for operations.

Recycling of materials will reduce the overall environmental impacts related to the manufacturing of products. Public health concerns in regards to groundwater contamination and methane gas production will be reduced with increasing recycling, as less material will be landfilled.

Public health impacts are minimized due to a reduction in the amount of waste being landfilled through composting operations. Due to the reduction of wastes being landfilled, environmental health impacts at the landfill, such as leachate formation and potential ground water contamination, are minimized. Composting reduces the amount of energy required to transport and landfill yard wastes.

Public Acceptability

Public acceptability for this alternative is expected to be good since it will keep options available for solid waste collection, and provides for increased recycling opportunities.

Resource Conservation

Conservation of natural resources will occur through the initiation of the multi-county recycling program and increasing the utilization of backyard composting programs.

Waste Reduction

Waste reduction will be achieved through education. Education will be a key component of this alternative and will emphasize reduce, reuse, recycle, and buy recycled.

Pollution Prevention

This alternative will increase pollution prevention by providing a household hazardous waste program. Pollution will decrease with household hazardous waste materials removed from the waste stream.

Resource Recovery

With the development of the multi-county recycling program, this alternative will increase resource recovery within the counties.

Ultimate Disposal Area Uses

It is anticipated that the Montmorency-Oscoda-Alpena Sanitary Landfill will ultimately be utilized for recreational purposes.

Institutional Arrangements

It is likely that aspects of the educational program will be institutionalized by the various participating agencies.

Selection Process

The selected system was chosen by a majority vote of the Montmorency-Oscoda Counties Solid Waste Planning Committee.

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. Provides for a phased approach to more intense resource recovery programs.
2. Allows for program development with multi-county recycling program.
3. Enhances current programs for recycling and composting.
4. Coordinates with existing agencies and organizations.
5. Provides a cost-effective means of providing increased services in recycling.
6. Maintains landfill in close proximity for small independents and local residents.
7. Government owned facilities are not-for-profit. Records are open to the public.
8. MOASL has been a self-sustaining landfill.
9. MOASL has land to expand.
10. MOASL Authority has run a good operation resulting in minimal groundwater contamination.

DISADVANTAGES:

1. Moves at a slower pace for a more aggressive resource recovery program.
2. Legislature has been attempting to eliminate Flow Control, which could adversely affect MOASL.
3. MOASL does not own a hauling business, therefore does not provide any solid waste guarantees.
4. Counties will have to enforce flow control.
5. If local haulers sell, landfill could be negatively impacted.

APPENDIX B

NON-SELECTED SYSTEMS

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

SYSTEM COMPONENTS, Non-Selected System Alternative 1:

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

RESOURCE CONSERVATION EFFORTS:

Recycling and composting operations currently in operation in Montmorency and Oscoda counties would continue at their present level of operation. Backyard composting programs will be promoted for the rest of the rural portions of the county. Educational efforts will involve utilizing existing agencies and organizations for information dissemination.

VOLUME REDUCTION TECHNIQUES:

Waste reduction would be encouraged through educational efforts and would include maintaining current recycling and composting at their present level of operation.

RESOURCE RECOVERY PROGRAMS:

Recycling and composting operations currently in operation in Montmorency and Oscoda counties would continue at their present level of operation. Continue to offer recycling through volunteer efforts. Backyard composting programs would be promoted for the rest of the rural portions of the county. Household hazardous waste would not be collected in the counties.

COLLECTION PROCESSES:

Collection would be carried out by private haulers. Continue system of curbside collection and Type B Transfer Stations.

TRANSPORTATION:

Access to the landfill is via County Road 487. County Road 487 intersects M-32 in Atlanta five miles north of the landfill and County Road 612 two miles south of the landfill. M-32 has recently been undergoing safety and surface improvements. Weight restrictions are in effect, especially during spring, for M-32, County Roads 487 and 612. Weight restrictions can severely limit solid waste transportation to the landfill.

DISPOSAL AREAS:

This alternative utilizes the Montmorency-Oscoda-Alpena Sanitary Landfill (MOASL) for the next 20 year planning period. This alternative assumes that all solid waste generated in Montmorency and Oscoda Counties will be disposed of at the landfill.

INSTITUTIONAL ARRANGEMENTS:

None

EDUCATIONAL AND INFORMATIONAL PROGRAMS:

Educational efforts would involve utilizing existing agencies and organizations for information dissemination

CAPITOL, OPERATIONAL, AND MAINTENANCE COSTS:

Costs associated with alternative would be minimal as it would utilized already existing programs and agencies. The recycling program would continue to be run largely with volunteer efforts. Existing agencies would be utilized for dissemination of educational materials.

EVALUATION SUMMARY OF NON-SELECTED SYSTEM, Alternative 1:

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 1: MONTMORENCY-OSCODA-ALPENA SANITARY LANDFILL SERVING MONTMORENCY AND OSCODA COUNTIES WITH LIMITED RESOURCE RECOVERY INITIATIVES

This alternative utilizes the Montmorency-Oscoda-Alpena Sanitary Landfill (MOASL) for the next 20 year planning period. This alternative assumes that all solid waste generated in Montmorency and Oscoda Counties will be disposed of at the landfill. Recycling and composting operations currently in operation in Montmorency and Oscoda counties will continue at their present level of operation. Backyard composting programs will be promoted for the rest of the unpopulated portions of the county. Educational efforts will involve utilizing existing agencies and organizations for information dissemination.

Technical Feasibility

The technical feasibility of sanitary landfilling is well proven and the most utilized system of solid waste management in the U.S.

Economic Feasibility

The economic feasibility of selecting this system will require additional solid waste to make this a viable option. Alpena County has agreed to jointly own and operate, along with Montmorency and Oscoda counties, the new landfill cell currently in the process of permit approval. The three counties will jointly share in the bond for construction of the new cell. Educational activities will continue at their present level through existing agencies programs.

Access to Land

The original landfill is situated on a 40 acre site and currently are in their last cell. The counties obtained an additional 40 acres for landfill expansion. The estimated refuse volume of the site is 3,500,000 cubic yards or 20+ years capacity for the three counties.

Access to Transportation

Access to the landfill is via County Road 487. County Road 487 intersects M-32 in Atlanta five miles north of the landfill and County Road 612 two miles south of the landfill. M-32 has undergone safety and surface improvements. Weight restrictions are in effect during periods of frost for County Roads 487 and 612.

Effects on Energy

Sanitary landfilling is an energy intensive system. The disposal of materials which required energy to produce, also require energy to transport to the site and energy to mechanically cover the materials daily. Some energy is conserved by utilizing transfer stations in the more rural areas.

Environmental Impacts

Since this alternative utilizes an existing site, initial environmental impacts have not been considered. The negative environmental impacts primarily concern the development of leachate within the site and

the contamination of groundwater. Methane gas can also be a concern, however, technology exists for utilization of gas for operations.

Public Acceptability

Public acceptability will be minimal for a program that does not emphasize resource recovery programs.

Resource Conservation

Conservation of natural resources will occur through continuation of the recycling programs, and increasing the utilization of backyard composting programs.

Waste Reduction

Waste reduction will be achieved through education. As educational efforts will be limited, it is likely this alternative will not result in significant waste reduction.

Pollution Prevention

This alternative will not increase pollution prevention efforts, but will maintain them at their present level. This alternative does not provide a means to remove household hazardous waste from the waste stream, so these materials will continue to enter the landfill.

Resource Recovery

Resource recovery efforts currently in operation in Montmorency and Oscoda counties will continue at their present level of operation. This alternative will not increase resource recovery.

Ultimate Disposal Area Uses

It is anticipated that the Montmorency-Oscoda-Alpena Sanitary Landfill will ultimately be utilized for recreational purposes.

Institutional Arrangements

There will be no additional institutional arrangements with this alternative.

Why this System Was Not Selected

This system was not selected because the counties wished to increase their resource recovery efforts. Also this system does not address the problems of household hazardous wastes or deal with other items of concern, such as used tires.

ADVANTAGES AND DISADVANTAGES OF THE NON-SELECTED SYSTEM, Alternative 1:

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. Minimal costs to counties.
2. Minimal involvement in solid waste management.

DISADVANTAGES:

1. Minimal material recovery.
2. Problems with continuing to rely on volunteer labor.
3. No assistance with current problems of marketing of materials.
4. Expansion of program not likely.
5. No household hazardous waste program. Household hazardous waste still being landfilled.
6. Little effort towards reduction, reuse, buy recycled.

SYSTEM COMPONENTS, Non-Selected System Alternative 2:

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

RESOURCE CONSERVATION EFFORTS:

Recycling and composting will be an integral component of this system. Montmorency and Oscoda counties, along with adjacent counties and the private sector will develop a multi-county recycling program. Composting sites will be expanded at the MOASL and as needed throughout the counties. Backyard composting will be promoted as the best management practice in rural areas. Educational programs will emphasize reduce, reuse, and recycle.

VOLUME REDUCTION TECHNIQUES:

Waste reduction would be encouraged through an educational campaign that would emphasize reduce, reuse, and recycle, and would include increasing recycling efforts and enhancing the existing composting program.

RESOURCE RECOVERY PROGRAMS:

Initiate a program in coordination with adjacent counties. Program based on establishing a Material Recovery Facility (MRF) in Alpena County with Montmorency and Oscoda Counties establishing recycling drop off centers strategically located throughout the counties. Compartmentalized containers will be located at the drop off centers and hauled to the central processing facility when full. Household hazardous waste days and the possibility of a permanent collection center at the MOASL will be explored to provide a means of alternate disposal of household hazardous waste.

COLLECTION PROCESSES:

Collection would be carried out by private haulers. Continue system of curbside collection and Type B Transfer Stations.

TRANSPORTATION:

Access to the landfill is via County Road 487. County Road 487 intersects M-32 in Atlanta five miles north of the landfill and County Road 612 two miles south of the landfill. M-32 has recently been undergoing safety and surface improvements.

DISPOSAL AREAS:

This alternative utilizes the Montmorency-Oscoda-Alpena Sanitary Landfill (MOASL) for the next 20 year planning period. This alternative assumes that all solid waste generated in Montmorency and Oscoda Counties will be disposed of at the landfill. Contingency disposal is at the Waste Management, Inc. Landfill in Waters, MI.

INSTITUTIONAL ARRANGEMENTS:

Institutional arrangements will involve partnerships with agencies involved with various components of the recycling and composting operations.

EDUCATIONAL AND INFORMATIONAL PROGRAMS:

Education will be a key component of the program emphasizing reduce, reuse, and recycle. Education and information programs would include programs covering recycling, composting, household hazardous waste, resource conservation and volume reduction. Information would be delivered through newspapers, flyers, organizational newsletters and exhibits. Generally the information would be targeted to the general public and to elementary school children.

CAPITAL, OPERATIONAL, AND MAINTENANCE COSTS:

Costs associated with this alternative would come from producing and disseminating educational material, running a recycling program and procuring new equipment (compartmentalized containers) for that program, increasing composting opportunities, producing educational materials to encourage back yard composting, holding household hazardous waste collection days and sponsoring a clean up days to reduce trash in the woods.

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: MONTMORENCY-OSCODA-ALPENA SANITARY LANDFILL SERVING MONTMORENCY AND OSCODA COUNTIES WITH EMPHASIS ON RESOURCE RECOVERY INITIATIVES

This alternative utilizes the Montmorency-Oscoda-Alpena Sanitary Landfill (MOASL) for the next 20 year planning period. This alternative assumes that all solid waste generated in Montmorency or Oscoda Counties will be disposed of at the landfill. Recycling and composting will be an integral component of this system. Montmorency and Oscoda counties, along with adjacent counties and the private sector will develop a multi-county recycling program for use by their residents. A recycling processing facility will be developed within the three county area for central processing and marketing. Recycling compartmentalized containers will be strategically located throughout the counties for convenient use by residents. Composting facilities in Albert and Big Creek Townships and at the MOASL will continue to be available for residents use, and new sites will be established as determined necessary. Backyard composting programs will be promoted for the rest of the unpopulated portions of the county. Education will be a key component of the program emphasizing reduce, reuse, and recycle.

Technical Feasibility

The technical feasibility of sanitary landfilling is well proven and the most utilized system of solid waste management in the U.S. The technical feasibility of recycling and composting is well proven. There are many existing models from which a program can be designed.

Economic Feasibility

The economic feasibility of selecting this system will require additional solid waste to make this a viable option. Alpena County has agreed to jointly own and operate, along with Montmorency and Oscoda counties, the new landfill cell currently in the process of permit approval. The three counties will jointly share in the bond for construction of the new cell. Costs are anticipated to be reimbursed by gate fees.

The economic feasibility of implementing the resource recovery initiatives will require construction, operation, and maintenance costs. Although the costs will vary depending on the type of recycling system that is designed, it is apparent that local as well as federal, state and foundation subsidies will be necessary.

Anticipated Resource Recovery Costs (in the planning stage).

Processing Facility and Equipment: \$30,000 - \$400,000 00

Operation and Maintenance: Will vary dependent upon the type of system implemented. Includes: labor, transportation, materials and equipment costs, building and supplies costs, utilities, etc.

Educational Program: Materials & Technical Assistance: \$15,000 - \$40,000

Composting: \$0 (volunteers or existing staff) - \$5,000.00/year dependent upon volume, how often the compost pile is turned, etc.

Household Hazardous Waste Collection and Disposal: \$5,000 - 10,000+ per year.

Access to Land

The original landfill is situated on a 40 acre site and currently is in the last cell. The counties obtained an additional 40 acres for landfill expansion. The estimated refuse volume of the site is 3,500,000 cubic yards or 20+ years capacity for the three counties. There are sufficient sites available in the counties for construction of the recycling processing center.

Access to Transportation

Access to the landfill is via County Road 487. County Road 487 intersects M-32 in Atlanta five miles north of the landfill and County Road 612 two miles south of the landfill. M-32 has undergone safety and surface improvements over the years. Weight restrictions are in effect, during periods of frost for County Roads 487 and 612.

Effects on Energy

Sanitary landfilling is an energy intensive system. The disposal of materials which required energy to produce, also requires energy to transport to the site and energy to daily mechanically cover the materials. Some energy is conserved by utilizing transfer stations in the more rural areas. Recycling of materials can reduce the overall energy costs for production of goods. Energy savings will be realized by the recycling of materials.

Environmental Impacts

Since this alternative utilizes an existing site, initial environmental impacts have not been considered. The negative environmental impacts primarily concern the development of leachate within the site and the contamination of groundwater. Methane gas can also be a concern, however, technology exists for utilization of gas for operations. Recycling of materials will reduce the overall environmental impacts related to the manufacturing of products.

Public Acceptability

Public acceptability for this alternative is expected to be good since it will keep options available for solid waste collection, and provides for increased recycling opportunities.

Resource Conservation

Conservation of natural resources will occur through the initiation of the multi-county recycling program and increasing the utilization of backyard composting programs.

Waste Reduction

Waste reduction will be achieved through education. Education will be a key component of this alternative and will emphasize reduce, reuse, and recycle.

Pollution Prevention

This alternative will increase pollution prevention by providing a household hazardous waste program. Pollution will decrease with household hazardous waste materials removed from the waste stream.

Resource Recovery

With the development of the multi-county recycling program, this alternative will increase resource recovery within the counties.

Ultimate Disposal Area Uses

It is anticipated that the Montmorency-Oscoda-Alpena Sanitary Landfill will ultimately be utilized for recreational purposes.

Institutional Arrangements

It is likely that aspects of the educational program will be institutionalized by the various participating agencies.

Why this System Was Not Selected

This system was not selected based on the Planning Committee's concerns for the need for time to procure the necessary funding, equipment, and personnel necessary for full-scale program implementation.

APPENDIX B

ADVANTAGES AND DISADVANTAGES OF THE NON-SELECTED SYSTEM, Alternative 2:

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. Increased material recovery, less waste landfilled
2. Household hazardous wastes are removed from the waste stream.
3. Multi-county alliance will increase recycling volume and provide easier access to markets.
4. Increased coordination with adjacent counties.
5. Increased educational effort for resource recovery programs.
6. Increased cost-effectiveness of recycling program.

DISADVANTAGES:

1. More costly as new initiatives are implemented.
2. More effort involved.
3. More cooperation necessary with surrounding counties.

APPENDIX C

PUBLIC PARTICIPATION

AND APPROVAL

APPENDIX C

PUBLIC PARTICIPATION

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.

The process for establishing the Montmorency-Oscoda Solid Waste Planning Committee involved advertisement in the local newspapers. After responses from the advertisements were received, the Montmorency and Oscoda County Board of Commissioners requested committee appointments and solicited potential members for the various categories. Once the committee positions were filled, the Montmorency and Oscoda County Board of Commissioners voted on and approved the committee.

Committee meetings were then held to obtain input into the overall plan. The following provides an overview of the meetings and accomplishments.

APPENDIX C PUBLIC PARTICIPATION

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. See Attachment G for documentation of the Public Involvement Process.

Meeting #1 April 30, 1998

- I. Election of Chair
- II. Procedures for Meetings
- III. Solid Waste Overview
- IV. Identification of issues/problems/deficiencies
- V. Discussion of Goals and Objectives
- VI. Discussion of Solid Waste Management Alternatives

Meeting #2 June 18, 1998

- VII. Discussion of Goals and Objectives
- VIII. Discussion/determination of resource recovery options
- IX. Import/Export Authorization Discussion

Meeting #3 July 30, 1998

- X. Discussion of Goals and Objectives
- XI. Resource Recovery Program Discussion
- XII. Discussion of Solid Waste Management Alternatives

Meeting #4 October 20, 1998

- XIII. Alpena County Solid Waste Plan Update
- XIV. Review of draft Plan.
- XV. Review and vote on selected solid waste management alternatives

Meeting #5 November 19, 1998

- XVI. Review Draft Plan
- XVII. Authorize plan for 90 day Public Comment/Review period

Public Input November – February, 1998- 1999

- XVIII. Conduct Public Hearing
- XIV. Write up comments

Meeting #6 February - March, 1999

- XV. Review comments, and make any necessary changes to Plan.
- XVI. Approve Plan, send to County for action.

APPENDIX C PUBLIC PARTICIPATION

PLANNING COMMITTEE APPOINTMENT PROCEDURE:

The process for establishing the Montmorency-Oscoda County Solid Waste Planning Committee involved advertisement in the local newspapers. After responses from the advertisement were received, the Montmorency and Oscoda County Board of Commissioners requested committee appointments and solicited potential members for the various categories. Once the committee positions were filled, the Montmorency and Oscoda County Board of Commissioners voted on and approved the committee.

APPENDIX C PUBLIC PARTICIPATION

PLANNING COMMITTEE

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

Four representatives of the solid waste management industry:

1. Dave Hornbacker, Thunder Bay Sanitation
2. Dave Herberholz, Waste Management, Inc.
3. Harold Wellman, Whitehouse Disposal
4. Gerald Steinke, Thunder Bay Sanitation

One representative from an industrial waste generator:

1. Terry DeBlaay, Hillman Power Company

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

1. Kelly Wangbichler, Oscoda County Recyclers
2. Jim Zavislak, Montmorency County Organization of Recyclers

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

1. Roger Frye (Dennis Kauffman), Montmorency County Board of Commissioners (Oscoda County Board of Commissioners).

One representative from township government:

1. Richard Anderson, Albert Township Supervisor

One representative from city government:

1. Kenneth Troyer, Clinton Township Supervisor (no cities in Montmorency or Oscoda County)

One representative from the regional solid waste planning agency:

1. Richard Hermanson, President of NEMCOG Board

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

1. Dale Neff, Oscoda County
2. Bernard Kann, Oscoda County
3. Tom Young, Montmorency County

APPENDIX D

PLAN IMPLEMENTATION STRATEGY

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 Montmorency and Oscoda County Board of Commissioners are ultimately responsible for implementing the Solid Waste Management Plan, as part of their duties as general governance. The Boards of Commissioners will coordinate the solid waste implementation activities with local municipalities, agencies, organizations, and planning commissions.

Montmorency and Oscoda Counties will work with the Solid Waste Planning Committee to implement the Solid Waste Plan. It is likely that money to fund plan implementation will be limited, so the counties will utilize existing agencies. NRCS, MSU Extension, Montmorency and Oscoda Conservation Districts and the local Health Department will be involved in Education Dissemination. The townships will be involved in developing a township clean up day and a white goods program.

Subcommittees will be established to help with implementation of the Selected Solid Waste Management System. Subcommittees will address implementing the recycling program, resource conservation education program, household hazardous waste disposal program, composting program, and township clean-up day program. A recycling subcommittee will meet with other counties in the region to discuss the possibility of a multi-county recycling program and will work to develop the recycling program. An education subcommittee will be established to assemble educational materials dealing with recycling, composting, household hazardous waste collection, resource conservation, and volume reduction. The education subcommittee will also assess what new types of educational materials are needed, if any, and develop an effective dissemination strategy. Existing agencies within the county will be utilized to disseminate the information to the general public.

A partnership agreement will be developed to outline the responsibilities of each entity involved in implementing the plan. The partnership agreement will aid in plan implementation by providing a means for local agencies to work together. Until a partnership agreement can be developed, the following letters provide documentation of acceptance of responsibilities from all entities involved in implementing the Solid Waste Plan, as required by the plan.

ATTACHMENTS

ATTACHMENTS

ATTACHMENT A: Resolutions

Resolutions, ordinances and host community agreements.

ATTACHMENT B: Listed Capacity

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

ATTACHMENT C: Maps

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

Map of percent change in population density from 1970 to 1990 in Northeast Michigan.

Map of percent change in population from 1970 to 1990 in Northeast Michigan.

ATTACHMENT D: Inter-County Agreements

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

ATTACHMENT E: Special Conditions

Special conditions affecting import or export of solid waste.

ATTACHMENT F: Tipping Fee Projections

Tipping fee projections for the Montmorency-Oscoda-Alpena Sanitary Landfill.

ATTACHMENT G: Public Involvement Process

Documentation of the Public Involvement Process.

ATTACHMENT H: Documentation of Acceptance of Responsibility

Documentation letters expressing acceptance of responsibility.

ATTACHMENT A

Resolutions

Ordinance providing for the disposal of solid waste in Montmorency County.

Ordinance providing for the disposal of solid waste in Oscoda County.

Township resolutions from Montmorency County for the expansion of the MOASL.

Township resolutions from Oscoda County for the expansion of the MOASL.

Host community agreement.

**Montmorency and Oscoda Counties Solid Waste Management Plan
Resolutions for Plan Approval**

Approval:

Montmorency County Board of Commissioners
Oscoda County Board of Commissioners
Village of Hillman
Albert Township
Avery Township
Big Creek Township
Briley Township
Clinton Township
Comins Township
Elmer Township
Hillman Township
Loud Township
Mentor Township
Montmorency Township
Rust Township
Vienna Township

93% Local Approval Obtained

Resolution Pending:

Greenwood Township

RESOLUTION NO: 99-06 A

At the regular meeting of the Montmorency County Board of Commissioners held in Atlanta, Michigan on the 31st day of March, 1999, on a motion by Dice, and seconded by Sipe, the following action was taken:

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the counties; and

WHEREAS, NEMCOG and the Montmorency/Oscoda Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, that the Montmorency County Board of Commissioners hereby approves the 1999 Update of the Montmorency/Oscoda Counties Solid Waste Management Plan.

PRESENT:

Richard E. Hermanson
Michael Davis
Harry Dice
Claudine Sipe

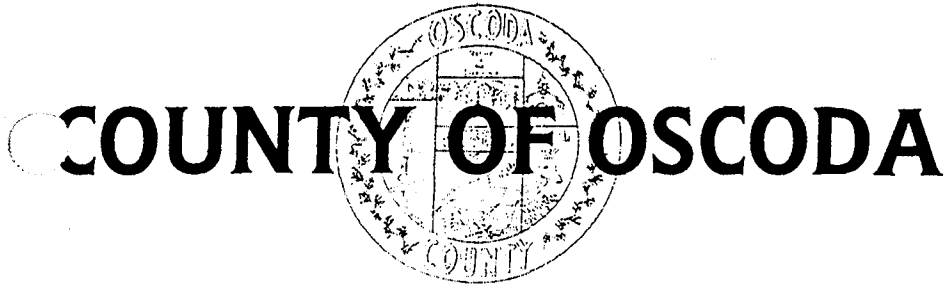
ABSENT:

Roger Frye

YEAS: 4 NAYS: 0

I, Nancy L. Cunningham, hereby certify that this is a true and accurate copy of the Resolution adopted by the Montmorency County Board of Commissioners at their meeting held on March 31st, 1999.


Nancy L. Cunningham, County Clerk



Board of Commissioners

Telephone (517) 826-1130

FAX line (517) 826-3518

Oscoda County Courthouse

311 Morenci Street

P.O. Box 399

Mio, Michigan 48647

**RESOLUTION
OF
APPROVAL FOR THE**

MONTMORENCY/OSCODA COUNTIES SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the counties; and

WHEREAS, NEMCOG and the Montmorency/Oscoda Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451 of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That Oscoda County hereby approves of the 1998 Update of the Montmorency/Oscoda Counties Solid Waste Management Plan.

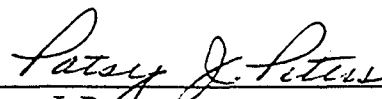
Moved by Commissioner Michael Hunt, seconded by Commissioner Tammy Emig, to adopt the above Resolution at a regular meeting of the Oscoda County Board of Commissioners held on March 30, 1999.

Roll Call Vote: Commissioner Cowger, yes; Commissioner Emig, yes; Commissioner Hunt, yes; Commissioner Kauffman, yes; Commissioner Stone, yes.

RESOLUTION DECLARED ADOPTED


Dennis Kauffman, Chairman

Oscoda County Board of Commissioners


Patsy J. Peters

Oscoda County Clerk/Register

A RESOLUTION
of Approval for
MONTMORENCY/OSCODA COUNTIES SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the counties; and,

WHEREAS, NEMCOG and the Montmorency/Oscoda Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That Village of Hillman (Local Government Name) hereby approves of the 1998 Update of the Montmorency/Oscoda Counties Solid Waste Management Plan.

Moved by James Stoddard, seconded by Gary Rouleau

to adopt the above resolution at a meeting held on May 18, 1999 (date).

Ayes 6 Myron McIntire, James Stoddard, Doris Shumaker,
Dan Painter, Gary Rouleau, Wil Funk

Nays 1 Ron Lounsbery

Abstain 0

Absent 0

Attested by: Brenda South
Brenda South, Clerk

Witnessed by: Jan McMurray
Jan McMurray, Deputy Clerk

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

ALBERT TOWNSHIP, MONTMORENCY COUNTY, MICHIGAN
RESOLUTION 99-1

A RESOLUTION
of Approval for
MONTMORENCY/OSCODA COUNTIES SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the counties; and,

WHEREAS, NEMCOG and the Montmorency/Oscoda Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That Albert Township (Local Government Name) hereby approves of the 1998 Update of the Montmorency/Oscoda Counties Solid Waste Management Plan.

Moved by Richard Anderson, seconded by Merrill Petoskey

to adopt the above resolution at a meeting held on May 3, 1999 (date).

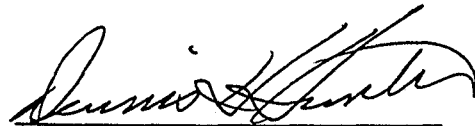
Ayes 5

Nays 0

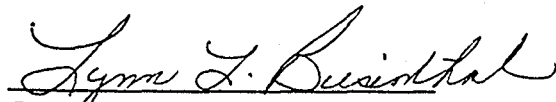
Abstain 0

Absent _____

Attested by:


Dennis H. Hunter, Township Clerk

Witnessed by:


Lynn L. Biesenthal, Adm. Sec.

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
MONTMORENCY/OSCODA COUNTIES SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the counties; and,

WHEREAS, NEMCOG and the Montmorency/Oscoda Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That TOWNSHIP OF AVERY (Local Government Name) hereby approves of the 1998 Update of the Montmorency/Oscoda Counties Solid Waste Management Plan.

Moved by M. TEETS, seconded by C. TUCKER

to adopt the above resolution at a meeting held on TUESDAY JUNE 1, 1999 (date).

Ayes 5

Nays 0

Abstain 0

Absent 0

Attested by:

Ann M. Seymaul
Clerk

Witnessed by:

Charlatta M. Lake

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
MONTMORENCY/OSCODA COUNTIES SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the counties; and,

WHEREAS, NEMCOG and the Montmorency/Oscoda Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That BRILEY TOWNSHIP (Local Government Name) hereby approves of the 1998 Update of the Montmorency/Oscoda Counties Solid Waste Management Plan.

Moved by Trustee Gohl, seconded by Clerk, Comber

to adopt the above resolution at a meeting held on June 14, 1999 (date).

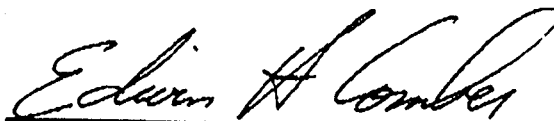
Ayes 5

Nays 0

Abstain

Absent

Attested by:



Edwin H. Comber, Bri. Twp. Clerk

Witnessed by:



Rosetta Cheedie, Bri. Twp. Treas.

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
MONTMORENCY/OSCODA COUNTIES SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the counties; and,

WHEREAS, NEMCOG and the Montmorency/Oscoda Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That BIG CREEK TWP. BOARD (Local Government Name) hereby approves of the 1998 Update of the Montmorency/Oscoda Counties Solid Waste Management Plan.

Moved by SANDERSON, seconded by DENNIS

to adopt the above resolution at a meeting held on MAY 17, 1999 (date).

Ayes 4

Nays 0

Abstain 0

Absent 1

Attested by: Sharon Aubert

Witnessed by: [Signature]

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
MONTMORENCY/OSCODA COUNTIES SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the counties; and,

WHEREAS, NEMCOG and the Montmorency/Oscoda Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That Elmer Township (Local Government Name) hereby approves of the 1998 Update of the Montmorency/Oscoda Counties Solid Waste Management Plan.

Moved by James R. Houlton, seconded by Richard Ellis
to adopt the above resolution at a meeting held on Sept. 20, 1999 (date).

Ayes 5

Nays 0

Abstain 0

Absent 0

Attested by: Dorothy Hoffman, Clerk

Witnessed by: [Signature]

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
MONTMORENCY/OSCODA COUNTIES SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the counties; and,

WHEREAS, NEMCOG and the Montmorency/Oscoda Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That COMINS TOWNSHIP (Local Government Name) hereby approves of the 1998 Update of the Montmorency/Oscoda Counties Solid Waste Management Plan.

Moved by A. HANDRICH, seconded by S. ELLIS

to adopt the above resolution at a meeting held on AUGUST 31, 1999 (date).

Ayes 5

Nays

Abstain

Absent

Attested by: Jane Royce, Tap Clerk

Witnessed by: Edward Handrich
Treasurer

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
MONTMORENCY/OSCODA COUNTIES SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the counties; and,

WHEREAS, NEMCOG and the Montmorency/Oscoda Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That Clinton Township (Local Government Name) hereby approves of the 1998 Update of the Montmorency/Oscoda Counties Solid Waste Management Plan.

Moved by Chris Neff, seconded by Carol Fredrickson

to adopt the above resolution at a meeting held on May 3, 1999 (date).

Ayes 5 (five)

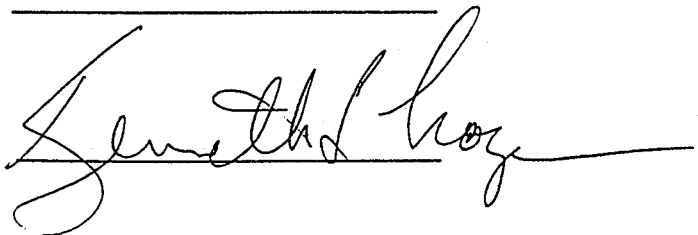
Nays 0

Abstain 0

Absent 0

Attested by: _____

Witnessed by: _____



Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
MONTMORENCY/OSCODA COUNTIES SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the counties; and,

WHEREAS, NEMCOG and the Montmorency/Oscoda Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That Elmer Township (Local Government Name) hereby approves of the 1998 Update of the Montmorency/Oscoda Counties Solid Waste Management Plan.

Moved by James R. Houlton, seconded by Richard Ellis
to adopt the above resolution at a meeting held on Sept. 20, 1999 (date).

Ayes 5

Nays 0

Abstain 0

Absent 0

Attested by: Deborah Hoffman, Clerk

Witnessed by: [Signature]

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
MONTMORENCY/OSCODA COUNTIES SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the counties; and,

WHEREAS, NEMCOG and the Montmorency/Oscoda Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That Hillman Township (Local Government Name) hereby approves of the 1998 Update of the Montmorency/Oscoda Counties Solid Waste Management Plan.

Moved by Daryl Peterson, seconded by Pamela Achatz

to adopt the above resolution at a meeting held on Monday, June 14, 1999 (date).

Ayes 4

Nays 1

Abstain 0

Absent 0

Attested by:

Pamela J. Achatz
Pamela J. Achatz

Witnessed by:

Daryl Peterson
Daryl Peterson

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
MONTMORENCY/OSCODA COUNTIES SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the counties; and,

WHEREAS, NEMCOG and the Montmorency/Oscoda Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That LOUD TOWNSHIP (Local Government Name) hereby approves of the 1998 Update of the Montmorency/Oscoda Counties Solid Waste Management Plan.

Moved by ELSIE BIXEL, seconded by RALPH KLEIN

to adopt the above resolution at a meeting held on THURS. MAY 20, 1999 (date).

Ayes 5

Nays 0

Abstain 0

Absent 0

Attested by: Elsie Bixel

Witnessed by: [Signature]

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
MONTMORENCY/OSCODA COUNTIES SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the counties; and,

WHEREAS, NEMCOG and the Montmorency/Oscoda Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That Mentor Township (Local Government Name) hereby approves of the 1998 Update of the Montmorency/Oscoda Counties Solid Waste Management Plan.

Moved by Sherwood, seconded by Crane

to adopt the above resolution at a meeting held on May 17, 1999 (date).

Ayes 5

Nays 0

Abstain 0

Absent 0

Attested by: Dee Sherwood, Clerk

Witnessed by: Dennis Kamm

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
MONTMORENCY/OSCODA COUNTIES SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the counties; and,

WHEREAS, NEMCOG and the Montmorency/Oscoda Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That Montmorency Township (Local Government Name) hereby approves of the 1998 Update of the Montmorency/Oscoda Counties Solid Waste Management Plan.

Moved by Steinke, seconded by Hardies

to adopt the above resolution at a meeting held on May 11, 1999 (date).

Ayes 5

Nays 0

Abstain _____

Absent _____

Attested by: Connie Brandt, Clerk

Witnessed by: Diane Klein, Treasurer

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
MONTMORENCY/OSCODA COUNTIES SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the counties; and,

WHEREAS, NEMCOG and the Montmorency/Oscoda Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That RUST TOWNSHIP (Local Government Name) hereby approves of the 1998 Update of the Montmorency/Oscoda Counties Solid Waste Management Plan.

Moved by R. PORTER, seconded by E. HARRIS

to adopt the above resolution at a meeting held on MAY 5, 1999 (date).

Ayes 5

Nays 0

Abstain 0

Absent 0

Attested by: Mary E. Banks, Clerk

Witnessed by: Morton H. Ruffer, Trustee

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
MONTMORENCY/OSCODA COUNTIES SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the counties; and,

WHEREAS, NEMCOG and the Montmorency/Oscoda Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That Vienna Township (Local Government Name) hereby approves of the 1998 Update of the Montmorency/Oscoda Counties Solid Waste Management Plan.

Moved by Janet Black, seconded by Vikki Schroeder
to adopt the above resolution at a meeting held on June 8th 1999 (date).

Ayes 5

Nays 0

Abstain 0

Absent 0

Attested by: Cheryl Klein, Clerk

Witnessed by: John W. [Signature]

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

PROVIDING FOR THE DISPOSAL OF SOLID WASTE
IN MONTMORENCY COUNTY

AN ORDINANCE to restrict disposal of refuse generated within the County of Montmorency:

WHEREAS, the State of Michigan has, through Act 641, Public Acts of Michigan, 1978, mandated that cities, townships, villages, and counties shall assure that all Solid Waste is delivered to licensed solid waste disposal areas or otherwise legally disposed of; and

WHEREAS, Montmorency County has an approved solid waste management plan as required by Act 641; and

WHEREAS, the County, in order to comply with the mandate of Act 641 and the provisions of the Plan, and to secure the health, safety, and general welfare of citizens of the County, has joined with certain municipalities located outside the County to form the Montmorency-Oscoda Landfill Committee for the purpose of, among other things, providing the landfill for the use of municipalities forming the landfill and their citizens; and

WHEREAS, the member local units of governments who have formed the landfill have by resolution agreed that a County Ordinance providing for the disposal of solid waste at the Montmorency-Oscoda Landfill is desirable; and

WHEREAS, it is the belief of the County that the operation of the Montmorency-Oscoda Landfill and handling of wastes generated within the County by the Montmorency-Oscoda landfill is in the best interests of the citizens of Montmorency County.

NOW, THEREFORE, IT IS HEREBY ORDAINED BY THE PEOPLE OF THE COUNTY:

Section 1. Definitions:

"Committee" means the Montmorency-Oscoda Landfill Committee or its successors or assigns.

"County" means the County of Montmorency.

"Montmorency-Oscoda Landfill" means the solid waste processing facility/sanitary landfill located in the county of Montmorency; and owned by the counties of Montmorency and Oscoda; and operated by Montmorency-Oscoda Landfill Committee.

"Department" means Michigan Department of Natural Resources.

"Effective Date" means the effective date of this Ordinance.

"Hazardous Waste" means hazardous waste as defined in Act No. 641 of the Public Acts of Michigan, 1978, as amended from time to time, and as identified in administrative rules promulgated from time to time pursuant to said Act by the Director of the Department.

"Municipal Waste" means street cleaning, municipal sludges, demolished building material, trees, brush, leaves, stumps, asphalt, concrete, industrial ash from municipal facilities and other inert materials collected by employees or agents of a municipality.

"Person" means any individual, proprietorship, firm, public or private corporation, partnership, trust, public or private agency or any other entity, or group of such persons.

"Site-Separated Materials" means recyclable materials (including, but not limited to, bottles, cans, newspaper, corrugated containers, grass, leaves, brush, yard trimmings, and metals) that are separated from solid waste after collection from a site of generation by a waste hauler or by the operators of the Montmorency-Oscoda Landfill to which it is delivered.

"Solid Waste" means garbage, rubbish, ashes, incinerator ash, incinerator residue, and industrial sludges, solid commercial and solid industrial waste, and animal waste provided, however, that this definition shall not include hazardous waste, municipal waste, non-acceptable landfill items, site-separate materials, source separated materials, human body waste, liquid or other waste regulated by statute, ferrous or nonferrous scrap directed to a scrap metal processor or to a reuser of ferrous or nonferrous products, and slag or slag products directed to a slag processor or to a reuser of slag or slag products.

"Source-Separated Materials" means recyclable materials (including, but not limited to, bottles, cans, newspapers, plastics, corrugated containers, metals, grass, leaves, brush, and yard trimmings) that are separated from solid waste prior to the collection of solid waste from a site of generation by a waste hauler.

"Unacceptable Landfill Items" means materials detrimental to the operation of the Landfill, including but not limited to burning or smoldering materials or ash, tires, batteries, and cars.

Section 2. All Solid Waste generated in the County shall be disposed of frequently enough to protect the public health.

Section 3. After the Effective Date, it shall be unlawful for any person residing in Montmorency County to dispose of Solid Waste, other than by delivering or causing the delivery of Solid Waste to the Montmorency-Oscoda Landfill. This Section shall not apply to Hazardous Waste, Unacceptable Landfill Items, waste generated by any person that is disposed of at its own sanitary landfill licensed pursuant to Act 641, Public Acts of Michigan, 1978, or waste which is permitted under state law or rules promulgated by the Department to be disposed of at the site of generation. Delivery of Hazardous Waste to the Montmorency-Oscoda Landfill shall be deemed a violation of this Ordinance.

Section 4. Upon a violation of any provision of this Ordinance, the County may seek criminal prosecution and may seek legal and/or equitable relief in a court of competent jurisdiction.

Section 5. Any person who shall violate a provision of this Ordinance shall be guilty of a misdemeanor, punishable by a fine not to exceed \$100.00, or by imprisonment not exceeding 90 days, or both such fine and imprisonment. Each day that a violation occurs or continues shall be deemed a separate offense.

Section 6. If any section, subsection, sentence, clause or phrase of within this Ordinance is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this Ordinance. The Board of Commissioners of the County hereby declares that it would have passed this Ordinance, section, subsection, sentence, clause or phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses or phrases be declared unconstitutional. Future amendments to this Ordinance may exempt from the effect hereof types of Solid Waste or Solid Waste generators on the recommendation of the governing body of the Montmorency-Oscoda Landfill by category or classification of Solid Waste or Solid Waste generators.

Section 7. All Ordinances or parts of Ordinances in conflict with the provisions of this are hereby repealed.

Section 8. This Ordinance shall be effective upon inclusion in the Montmorency County Solid Waste Management Plan of the Flow Control mechanisms contemplated by this Ordinance and publication once in a newspaper of general circulation in Montmorency County.

Richard Hermanson
 Michael Davis
 Michael Wurtsmith
 Roger Frye
 Carlyle Becker

Aye	Nay	Absent
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u> </u>	<u>X</u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>

I, M. Jeanne Clement, Montmorency
 County Clerk and Clerk of the Montmorency
 County Board of Commissioners, do
 hereby certify this to be a true and exact
 copy from the minutes of the Montmorency
 County Board of Commissioners held on
May 27, 1992.

I, M. Jeanne Clement, Montmorency County
 Clerk do hereby set my hand and seal this
27th day of May, 1992.

M. Jeanne Clement

M. JEANNE CLEMENT
 Montmorency County Clerk

Richard Hermanson

RICHARD HERMANSON, Chairman
 Montmorency County Board of Commissioners

**PROVIDING FOR THE DISPOSAL OF SOLID WASTE
IN OSCODA COUNTY**

AN ORDINANCE to restrict disposal of refuse generated within the County of
Oscoda:

WHEREAS, the State of Michigan has, through Act 641, Public Acts of Michigan, 1978, mandated that cities, townships, villages, and counties shall assure that all Solid Waste is delivered to licensed solid waste disposal areas or otherwise legally disposed of; and

WHEREAS, Oscoda County has an approved solid waste management plan as required by Act 641; and

WHEREAS, the County, in order to comply with the mandate of Act 641 and the provisions of the Plan, and to secure the health, safety, and general welfare of citizens of the County, has joined with certain municipalities located outside the County to form the Montmorency-Oscoda Landfill Committee for the purpose of, among other things, providing the landfill for the use of municipalities forming the landfill and their citizens; and

WHEREAS, the member local units of governments who have formed the Landfill have by resolution agreed that a County Ordinance providing for the disposal of solid waste at the Montmorency-Oscoda Landfill is desirable; and

WHEREAS, it is the belief of the County that the operation of the Montmorency-Oscoda Landfill and handling of wastes generated within the County by the Montmorency-Oscoda landfill is in the best interests of the citizens of Oscoda County.

NOW, THEREFORE, IT IS HEREBY ORDAINED BY THE PEOPLE OF THE COUNTY:

Section 1. Definitions:

"Committee" means the Montmorency-Oscoda Landfill Committee or its successors or assigns.

"County" means the County of Oscoda.

"Montmorency-Oscoda Landfill" means the solid waste processing facility/sanitary landfill located in the county of Montmorency; and owned by the counties of Montmorency and Oscoda; and operated by Montmorency-Oscoda Landfill Committee.

Oscoda Co. Health Control

"Department" means Michigan Department of Natural Resources.

"Effective Date" means the effective date of this Ordinance.

"Hazardous Waste" means hazardous waste as defined in Act No. 641 of the Public Acts of Michigan, 1978, as amended from time to time, and as identified in administrative rules promulgated from time to time pursuant to said Act by the Director of the Department.

"Municipal Waste" means street cleaning, municipal sludges, demolished building material, trees, brush, leaves, stumps, asphalt, concrete, industrial ash from municipal facilities and other inert materials collected by employees or agents of a municipality.

"Person" means any individual, proprietorship, firm, public or private corporation, partnership, trust, public or private agency or any other entity, or group of such persons.

"Site-Separated Materials" means recyclable materials (including, but not limited to, bottles, cans, newspaper, corrugated containers, grass, leaves, brush, yard trimmings, and metals) that are separated from solid waste after collection from a site of generation by a waste hauler or by the operators of the Montmorency-Oscoda Landfill to which it is delivered.

"Solid Waste" means garbage, rubbish, ashes, incinerator ash, incinerator residue, and industrial sludges, solid commercial and solid industrial waste, and animal waste provided, however, that this definition shall not include hazardous waste, municipal waste, non-acceptable landfill items, site-separate materials, source separated materials, human body waste, liquid or other waste regulated by statute, ferrous or nonferrous scrap directed to a scrap metal processor or to a reuser of ferrous or nonferrous products, and slag or slag products directed to a slag processor or to a reuser of slag or slag products.

"Source-Separated Materials" means recyclable materials (including, but not limited to, bottles, cans, newspapers, plastics, corrugated containers, metals, grass, leaves, brush, and yard trimmings) that are separated from solid waste prior to the collection of solid waste from a site of generation by a waste hauler.

"Unacceptable Landfill Items" means materials detrimental to the operation of the Landfill, including but not limited to burning or smoldering materials or ash, tires, batteries, and cars.

Section 2. All Solid Waste generated in the County shall be disposed of frequently enough to protect the public health.

Section 3. After the Effective Date, it shall be unlawful for any person residing in Oscoda County to dispose of Solid Waste, other than by delivering or causing the delivery of Solid Waste to the Montmorency-Oscoda Landfill. This Section shall not apply to Hazardous Waste, Unacceptable Landfill Items, waste generated by any person that is disposed of at its own sanitary landfill licensed pursuant to Act 641, Public Acts of Michigan, 1978, or waste which is permitted under state law or rules promulgated by the Department to be disposed of at the site of generation. Delivery of Hazardous Waste to the Montmorency-Oscoda Landfill shall be deemed a violation of this Ordinance.

Section 4. Upon a violation of any provision of this Ordinance, the County may seek criminal prosecution and may seek legal and/or equitable relief in a court of competent jurisdiction.

Section 5. Any person who shall violate a provision of this Ordinance shall be guilty of a misdemeanor, punishable by a fine not to exceed \$100.00, or by imprisonment not exceeding 90 days, or both such fine and imprisonment. Each day that a violation occurs or continues shall be deemed a separate offense.

Section 6. If any section, subsection, sentence, clause or phrase of within this Ordinance is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this Ordinance. The Board of Commissioners of the County hereby declares that it would have passed this Ordinance, section, subsection, sentence, clause or phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses or phrases be declared unconstitutional. Future amendments to this Ordinance may exempt from the effect hereof types of Solid Waste or Solid Waste generators on the recommendation of the governing body of the Montmorency-Oscoda Landfill by category or classification of Solid Waste or Solid Waste generators.

Section 7. All Ordinances or parts of Ordinances in conflict with the provisions of this are hereby repealed.

Section 8. This Ordinance shall be effective upon inclusion in the Oscoda County Solid Waste Management Plan of the Flow Control mechanisms contemplated by this Ordinance and publication once in a newspaper of general circulation in Oscoda County.

Dennis Kauffman
 Dale Neff
 Duane Cripps
 William Long
 Richard Hoffman

Aye	Nay	Absent
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>

I, Sondra Houlton, Oscoda
 County Clerk and Clerk of the Oscoda
 County Board of Commissioners, do
 hereby certify this to be a true and exact
 copy from the minutes of the Oscoda
 County Board of Commissioners held on
April 28, 1992.

I, Sondra Houlton, Oscoda County
 Clerk do hereby set my hand and seal this
28th day of April, 1992.

Sondra Houlton
 SANDRA HOULTON SONdra HOULTON
 Oscoda County Clerk

Dennis Kauffman
 DENNIS KAUFFMAN, Chairman
 Oscoda County Board of Commissioners



JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

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

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

December 27, 1999

Mr. Richard Hermanson, Chairperson
Montmorency County Board of Commissioners
PO Box 415
Atlanta, Michigan 49709

Dear Mr. Hermanson:

The Department of Environmental Quality (DEQ) received the locally approved update to the Montmorency-Oscoda County Solid Waste Management Plan (Plan) on October 5, 1999.

By this letter, this Plan is hereby approved and Montmorency and Oscoda Counties now assume responsibility for the enforcement and implementation of this Plan. The DEQ would like to thank Montmorency County for their efforts in addressing the counties' solid waste management issues. An approval letter similar to this one has been sent to the Oscoda County Board of Commissioners.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Russell J. Harding", with the word "ACTING" written in capital letters below it.

Russell J. Harding
Director
517-373-7917

cc: Senator Walter H. North
Representative Kenneth L. Bradstreet
Ms. Diane Rekowski, NEMCOG
Mr. Arthur R. Nash Jr., Deputy Director, DEQ
Ms. Cathy Wilson, Legislative Liaison, DEQ
Mr. Jim Sygo, DEQ
Ms. Joan Peck, DEQ
Mr. Philip Roycraft, DEQ - Cadillac
Mr. Seth Phillips, DEQ
Mr. Stan Idziak, DEQ
Montmorency County File
Oscoda County File
Alpena 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

RUSSELL J. HARDING, Director

December 27, 1999

Mr. Dennis Kauffman, Chairperson
Oscoda County Board of Commissioners
PO Box 399
Mio, Michigan 48647

Dear Mr. Kauffman:

The Department of Environmental Quality (DEQ) received the locally approved update to the Montmorency-Oscoda County Solid Waste Management Plan (Plan) on October 5, 1999.

By this letter, this Plan is hereby approved and Montmorency and Oscoda Counties now assume responsibility for the enforcement and implementation of this Plan. The DEQ would like to thank Oscoda County for their efforts in addressing the counties' solid waste management issues. An approval letter similar to this one has been sent to the Montmorency County Board of Commissioners.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Russell J. Harding". Below the signature, the word "ACTING" is written in capital letters.

Russell J. Harding
Director
517-373-7917

cc: Senator Walter H. North
Representative Kenneth L. Bradstreet
Ms. Diane Rekowski, NEMCOG
Mr. Arthur R. Nash Jr., Deputy Director, DEQ
Ms. Cathy Wilson, Legislative Liaison, DEQ
Mr. Jim Sygo, DEQ
Ms. Joan Peck, DEQ
Mr. Philip Roycraft, DEQ - Cadillac
Mr. Seth Phillips, DEQ
Mr. Stan Idziak, DEQ
Oscoda County File
Montmorency County File
Alpena County File

MONTMORENCY AND OSCODA COUNTIES SOLID WASTE MANAGEMENT PLAN

February 24, 1999

1997 PLAN UPDATE COVER PAGE

The Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), Part 115, Solid Waste Management, and its Administrative Rules, requires that each County have a Solid Waste Management Plan Update (Plan) approved by the Michigan Department of Environmental Quality (DEQ). Section 11539a requires the DEQ to prepare and make available a standardized format for the preparation of these Plan updates. This document is that format. The Plan should be prepared using this format without alteration. Please refer to the document entitled "Guide to Preparing the Solid Waste Management Plan Update" for assistance in completing this Plan format.

DATE SUBMITTED TO THE DEQ:

PARICIPATING COUNTIES: Montmorency County, Oscoda County

The following lists all the municipalities from outside the County who have requested and have been accepted to be included in the Plan, or municipalities within the County that have been approved to be included in the Plan of another County according to Section 11536 of Part 115 of the NREPA.

Resolutions from all involved County boards of commissioners approving the inclusion are included in Appendix D.

<u>Municipality</u>	<u>Original Planning County</u>	<u>New Planning County</u>
---------------------	---------------------------------	----------------------------

DESIGNATED PLANNING AGENCY PREPARING THIS PLAN UPDATE:

Northeast Michigan Council of Governments (NEMCOG)

CONTACT PERSON: Diane Rekowski, Director

ADDRESS: 121 E. Mitchell
PO Box 457
Gaylord, MI 49734

PHONE: (517) 732-3551

FAX: (517) 732-5578

E-MAIL: nemcog@northland.lib.mi.us

CENTRAL REPOSITORY LOCATION(S):

Montmorency County Courthouse
East Annex Building
12285 Jerome
Atlanta, MI 49709

Oscoda County Courthouse
311 Morenci
Mio, MI 48647

TABLE OF CONTENTS

EXECUTIVE SUMMARY	3
OVERALL VIEW OF THE COUNTY	3
CONCLUSIONS	4
SELECTED ALTERNATIVES	4
INTRODUCTION	5
GOALS AND OBJECTIVES	5
 DATABASE	 8
SOLID WASTE DISPOSAL AREAS	10
SOLID WASTE FACILITY DESCRIPTIONS	11
SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION INFRASTRUCTURE	21
EVALUATION OF DEFICIENCIES AND PROBLEMS	22
DEMOGRAPHICS	23
LAND DEVELOPMENT	25
SOLID WASTE MANAGEMENT ALTERNATIVES	26
 SELECTED SOLID WASTE MANAGEMENT SYSTEM	 33
IMPORT/EXPORT AUTHORIZATIONS	34
SOLID WASTE DISPOSAL AREAS	38
FACILITY DESCRIPTIONS	39
SOLIDWASTE COLLECTION SERVICES AND TRANSPORTATION INFRASTRUCUTURE	48
RESOURCES CONSERVATION EFFORTS	49
WASTE REDUCTION, RECYCLING & COMPOSTING PROGRAMS	50
EDUCATIONAL AND INFORMATIONAL PROGRAMS	62
TIMETABLE	63
SITING PROCEDURE	64
MANAGEMENT COMPONENT	65
LOCAL ORDINANCES AND REGULATIONS	69
 CAPACITY CERTIFICATION PROCESS	 71
 APPENDIX A – ADDITIONAL INFORMATION REGARDING THE SELECTED SYSTEM	 72
EVALUATION OF RECYCLING	73
DETAILED FEATURES OF RECYCLING AND COMPOSTING PROGRAMS	74
COORDINATION EFFORTS	77
COSTS AND FUNDING	78
EVALUATION SUMMARY	79
ADVANTAGES AND DISADVANTAGES	82
APPENDIX B – NON SELECTED SYSTEMS	83
NON SELECTED SYSTEMS	84
APPENDIX C – PUBLIC PARTICIPATION	93
PUBLIC PARTICIPATION AND APPROVAL	94
APPENDIX D – PLAN IMPLEMENTATION STRATEGY	98
ATTACHMENTS	100

EXECUTIVE SUMMARY

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

OVERALL VIEW OF THE COUNTY

Township or Municipality Name	Population	Rural	% Land Use Urban	Ag	For	% of Economic Base*		
						Ind	Com	Oth
<u>Montmorency County</u>								
Albert Twp	2,188	100	0	<1	1	16	64	19
Avery Twp	652	100	0	<1	<1	14	56	28
Briley Twp	2,061	100	0	<1	2	17	49	32
Hillman Twp	2,447	100	0	<1	1	20	43	36
Loud Twp	247	100	0	0	0	15	67	18
Montmorency Twp	1,210	100	0	6	13	24	28	29
Rust Twp	578	100	0	2	5	24	46	23
Vienna Twp	485	100	0	2	4	29	46	19
Total Population	9,868							

<u>Oscoda County</u>								
Big Creek Twp	3,112	100	0	1	3	21	47	28
Clinton Twp	501	100	0	1	3	25	50	20
Comins Twp	1,992	100	0	2	4	27	41	26
Elmer Twp	957	100	0	4	9	33	43	11
Greenwood Twp	986	100	0	0	0	26	54	20
Mentor Twp	1,227	100	0	2	4	16	41	37
Total Population	8,775							

*Ag = Agriculture; For = Forestry; Ind = Industry; Com = Commercial; Oth = All Other Economic Bases. Additional listings, if necessary, are listed on an attached page

EXECUTIVE SUMMARY

CONCLUSIONS

The Montmorency and Oscoda County Solid Waste Planning Committee was established utilizing newspaper advertisements and appointments by the Montmorency and Oscoda County Boards of Commissioners. Once committee positions were filled, the County Boards of Commissioners voted on and approved the committee.

Committee meetings were held to obtain input into the overall plan. The current solid waste management system was reviewed and the deficiencies of this system were discussed. In developing the selected system, attempts were made to solve the problems and deficiencies in the present system.

Each solid waste management alternative for Montmorency and Oscoda Counties was assessed based on technical feasibility, economic feasibility, access to land, access to transportation, effects on energy, environmental impacts, pollution prevention, waste reduction, resource recovery, public acceptability, conservation of natural resources, and institutional arrangements. Selection of the solid waste management system was based on the system that would be in the best interest of the residents of Montmorency and Oscoda Counties. The selected system was chosen by a majority vote of the Solid Waste Planning Committee.

SELECTED ALTERNATIVE

Selection of the solid waste management system was based on economics, environmental protection and sound waste management practices. The primary solid waste disposal facility for the selected system will be the Montmorency-Oscoda-Alpena Sanitary Landfill (MOASL) with contingency at the Waste Management, Inc. Landfill in Waters, Michigan. All solid waste generated in Montmorency and Oscoda Counties will be disposed of at the MOASL. This alternative utilizes the MOASL for the next 20 year planning period.

Private hauling companies will continue to provide residential, commercial, and industrial service pick-up in Montmorency and Oscoda Counties. Collection of solid waste will continue to be through private agreements with customers.

Initially, recycling and composting operations currently in operation in Montmorency and Oscoda counties will continue at their present level of operation. Backyard composting programs will be promoted for the rest of the rural portions of the county. Educational efforts will involve utilizing existing agencies and organizations for information dissemination. Over the 5 year planning period, Montmorency and Oscoda counties, along with adjacent counties and the private sector, will participate in the development of a multi-county recycling program for use by their residents. A Material Recovery Facility (MRF) will be developed within the three county area for central processing and marketing. Recycling compartmentalized containers will be strategically located throughout the counties for convenient use by residents. Composting facilities in Albert and Big Creek Townships and at the MOASL will continue to be available for residents use, and new sites will be established as determined necessary. Backyard composting programs will continue to be promoted for the rural portions of the county. Education efforts will increase and will be a key component of the program emphasizing reduce, reuse, recycle, and buy recycled products.

INTRODUCTION

GOALS AND OBJECTIVES

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

- (1) To utilize to the maximum extent possible the resources available in Michigan's solid waste stream through source reduction, source separation, and other means of resource recovery and;
- (2) To prevent adverse effects on the public health and the environment resulting from improper solid waste collection, transportation, processing, or disposal, so as to protect the quality of the air, the land, and ground and surface waters.

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

Montmorency and Oscoda Counties Solid Waste Goals and Objectives

Goal 1: Establish and maintain a resource recovery program to reduce the overall dependency on land disposal and to provide for the conservation of natural resources.

Objective 1a: Initiate a county-wide or multi-county recycling program.

- A. Meet with other counties in the region to discuss the development of a multi-county recycling program.
- B. Develop a strategic plan for recycling program implementation.
- C. Develop a comprehensive recycling education program to include the involvement of the schools, organizations, business, local government and the general public, etc.
- D. Explore the possibilities of joint purchasing of recycled paper products.
- E. Examine the possibility of developing a collection program for used oil and other products that may not be included in the recycling program.
- F. Review current markets for used tires and explore the possibility of developing a local market for used tires generated in northern Michigan.

Objective 1b. Expand and improve composting opportunities in Montmorency and Oscoda Counties.

- A. On an annual basis, disseminate educational information to the general public on backyard composting techniques.
- B. Conduct a survey to determine composting needs (additional sites as well as equipment needs).
- C. Establish additional composting sites as determined by the survey.
- D. Develop a composting promotional campaign to increase the awareness and participation of the program.
- E. Coordinate the use of equipment between the various composting sites in the counties.

Objective 1c. Develop a Resource Recovery Education program to increase the understanding of the benefits of reducing, reusing, and recycling solid wastes.

- A. Meet with MSU Extension, school representatives, organizations, businesses, etc. to develop an overall education program.
- B. Determine the delivery system for information dissemination (i.e. MSU Extension - brochures available to general public, 4H- activity, school calendars, school logo contests).
- C. Gather available information for local dissemination.
- D. Designate an office where the public can direct questions about solid waste management and where they can obtain printed educational materials.
- E. Incorporate the "Buy Recycled" theme into educational program.

Goal 2: Provide for the protection of the public's health and the quality of the natural resources: air, land, ground and surface waters, by increasing the overall efficiency of solid waste collection, transportation, and disposal.

Objective 2a. Develop a household and agricultural hazardous waste collection program.

- A. Biannually, organize and hold a household hazardous waste collection day.
- B. Develop and distribute educational materials that describe which wastes classify as hazardous and explain proper disposal methods.
- C. Meet with other counties in the region to discuss holding a multi-county collection day.
- D. Research available hazardous waste disposal programs.

E. Promote existing hazardous waste programs, i.e. Operation Clean Sweep.

Objective 2b. Establish and enhance annual clean-up days to prevent further disposal of solid waste on forest land.

A. Organize a meeting with townships to develop and coordinate annual clean-up day programs.

B. On an annual basis, hold clean-up days throughout the county.

Objective 2c. Reduce illegal dumping of solid waste on forest land.

A. Review existing enforcement system to determine if additional regulations are needed.

B. Enhance system, if necessary, by enacting a county ordinance that provides fines and/or other penalties for illegal dumping and encourages witnesses to report illegal dumping by offering rewards.

C. Provide a reasonably priced disposal method for large furniture and white goods, to prevent these items from being dumped in the woods.

D. Develop a promotional campaign to increase awareness and participation in the large item disposal program.

Objective 2d. Monitor solid waste volume received at MOASL.

A. Review reported landfill figures at the MOASL and surrounding landfills.

B. Encourage disposal and the recycling of waste from counties authorized to import waste on a primary basis to the MOASL.

Objective 2e. Maintain competitive waste management services for county residents.

A. Continue to offer competitive disposal fees by increasing the overall efficiency of disposal operations.

B. Meet with local haulers to discuss possible improvements to solid waste systems.

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. (Attach additional pages as necessary)

Residential/commercial solid waste data was calculated by staff based on the generation rate of 3 lbs/capita/day, which was calculated from the amount of waste generated in Montmorency and Oscoda counties in 1997 and 1996. The only significant source of industrial waste is the Hillman Power Plant in Montmorency County. The Power Plant generated 5612 tons of flyash in 1997, however this is used as daily cover at the landfill. Industrial waste data was calculated based on the generation rate of 3 lbs/capita/day, which was calculated from the amount of waste generated in 1997. The 1997 volumes are based on population estimates (Source: Bureau of Census, U.S. Department of Commerce) and the 2000, 2005 and 2010 generation volumes are based on population projections (Source: Michigan Department of Management and Budget). The projected solid waste generation for Montmorency and Oscoda Counties, broken down by township and county, is shown in the following tables. These figures are based on future population trends and do not take into consideration any factors affecting solid waste fluctuations.

Montmorency County Solid Waste Generation Residential and Commercial Waste

	% of waste stream	1997 Volume tons/yr	2000 Volume tons/yr	2005 Volume tons/yr	2010 Volume tons/yr
Albert Twp	22	1202	1304	1439	1593
Avery Twp	7	383	415	458	507
Briley Twp	23	1256	1363	1505	1665
Hillman Twp	17	929	1007	1112	1231
Hillman Village	5	274	296	327	362
Loud Twp	3	164	178	196	217
Montmorency Twp	12	656	711	785	869
Rust Twp	6	328	356	393	434
Vienna Twp	5	274	296	327	362
Montmorency County	100	5464	5927	6542	7240

Montmorency County Solid Waste Generation Industrial Waste

	1997 Volume tons/yr	2000 Volume tons/yr	2005 Volume tons/yr	2010 Volume tons/yr
Hillman Power Plant	5612	5927	6542	7240

Oscoda County Solid Waste Generation
Residential and Commercial Waste

	% of waste stream	1997 Volume tons/yr	2000 Volume tons/yr	2005 Volume tons/yr	2010 Volume tons/yr
Big Creek Twp	35	1695	1823	1975	2140
Clinton Twp	6	291	313	338	367
Comins Twp	23	1130	1198	1298	1406
Elmer Twp	11	533	573	621	672
GreenwoodTwp	10	484	521	565	611
Mentor Twp	15	727	781	846	917
Oscoda County	100	4842	5209	5643	6113

Montmorency and Oscoda Counties do not anticipate major problems associated with managing the solid waste generated within their counties, as their landfill will have 20 plus years of projected capacity. Collection of solid waste is currently available through private agreements with private hauling companies. Increase in waste due to increase in tourism and seasonal home development will be handled through private hauling companies. Increases in waste due to population growth will be moderated by the institution of a recycling program, a household hazardous waste collection program and an educational campaign to increase participation in composting.

TOTAL QUANTITY OF SOLID WASTE GENERATED:

In 1997: 15,918 tons/yr
In 2000: 17,063 tons/yr
In 2005: 18,727 tons/yr
In 2010: 20,593 tons/yr

TOTAL QUANTITY OF SOLID WASTE NEEDING DISPOSAL:

In 1997: 10,306 tons/yr
In 2000: 11,136 tons/yr
In 2005: 12,185 tons/yr
In 2010: 13,353 tons/yr

DATA BASE - SOLID WASTE DISPOSAL AREAS

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.



Solid waste generated in Montmorency or Oscoda Counties is disposed of at the Montmorency-Oscoda-Alpena Sanitary Landfill in Montmorency County. Contingency disposal has been and will continue to be at the Waste Management Inc. Landfill in Waters, Michigan. The Elk Run Landfill located outside of Onaway in Presque Isle County, has not been utilized by the counties and will not be used as a disposal site in the next planning period.

Type B transfer stations are utilized by many of the townships in the counties and are located in the following townships: Albert, Montmorency, Clinton, Comins, Elmer, Greenwood, and Big Creek.

See Attachment C for a map showing the location of transfer stations, disposal sites and relative distances to disposal sites.

DATA BASE - FACILITY DESCRIPTIONS

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill

Facility Name: Montmorency-Oscoda-Alpena Sanitary Landfill

County: Montmorency

Location: Town: 29N

Range: 3E

Section(s): 6

Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Montmorency and Oscoda Counties

Operating Status (check)

☒ open

☐ closed

☒ licensed

☐ unlicensed

☒ construction permit

☐ open, 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: 80 acres¹

Total area sited for use: 80 acres

Total area permitted: 80 acres

Operating: 3-4 acres

Not excavated: 37-40 acres

Current capacity: 3,500,000 yds³

Estimated lifetime: 30 years

Estimated days open per year: 310 days

Estimated yearly disposal volume: 145,000 yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects: Will be adding recovery in future

Waste-to-energy incinerators: NA megawatts

¹ Currently in the process of obtaining a construction permit for a new cell

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill

Facility Name: Waste Management Inc. of Waters

County: Crawford

Location: Town: 28 N

Range: 8 E

Section(s): 4

Map identifying location included in Attachment Section: No

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

Owner: Privately owned by Waste Management Inc.

<u>Operating Status (check)</u>	<u>Waste Types Received (check all that apply)</u>
---------------------------------	--

☒ open

☐ closed

☒ licensed

☐ unlicensed

☐ construction permit

☐ open, closure pending

☒ residential

☒ commercial

☒ industrial

☒ construction & demolition

☒ contaminated soils

☒ special wastes *

other:

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

Contaminated soils, friable

Site Size:

Total area of facility property: 252.2 acres

Total area sited for use: 252.2 acres

Total area permitted: 79.07 acres

Operating: 9.7 acres

Not excavated: 64.87 acres

Current capacity: 8.2 million yds³

Estimated lifetime: + 20 years

Estimated days open per year: 313 days

Estimated yearly disposal volume: 185,000-200,000 yds³

Annual energy production:

Landfill gas recovery projects: NA megawatts

Waste-to-energy incinerators: NA megawatt

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill
Facility Name: Elk Run Sanitary Landfill

County: Presque Isle Location: Town: T33N Range: R2E Section(s): NE ¼ of 5

Map identifying location included in Attachment Section: Yes

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

Owner: Republic, Inc.

Operating Status (check) Waste Types Received (check all that apply)

X open	X residential
closed	X commercial
X licensed	industrial
unlicensed	X construction & demolition
construction permit	X contaminated soils
open, closure pending	X special wastes *
	other:

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

Site Size:

Total area of facility property:	120	acres
Total area sited for use:	42	acres
Total area permitted:	42	acres
Operating:	3	acres
Not excavated:	39	acres

Current capacity:	3,400,000	yds ³
Estimated lifetime:	35	years
Estimated days open per year:	52	days – will be open 1 day/week - 50 yds ³ /day
Estimated yearly disposal volume:	5,000	yds ³ /month - minimal

(if applicable)

Annual energy production:

Landfill gas recovery projects:	0	megawatts
Waste-to-energy incinerators:		megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Albert Township Transfer Station

County: Montmorency

Location: Town: 29 N

Range: 1 E

Section(s): 23

Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Albert Township

Operating Status (check)

☒ open
☐ closed
☒ licensed
☐ unlicensed
☐ construction permit
☐ open, 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: yds3

Estimated lifetime: years

Estimated days open per year: days

Estimated yearly disposal volume: yds3

Annual energy production:

Landfill gas recovery projects: megawatts

Waste-to-energy incinerators: megawatt

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Montmorency Township Transfer Station

County: Montmorency

Location: Town: 32 N

Range: 5 E

Section(s): 30

Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Montmorency Township

Operating Status (check)

☒ open

☐ closed

☒ licensed

☐ unlicensed

☐ construction permit

☐ open, 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: yds3

Estimated lifetime: years

Estimated days open per year: days

Estimated yearly disposal volume: yds3

Annual energy production:

Landfill gas recovery projects: megawatts

Waste-to-energy incinerators: megawatt

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Clinton Township Transfer Station

County: Oscoda

Location: Town: 28 N

Range: 3 E

Section(s): 22

Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Clinton Township

Operating Status (check)

☒ open
☐ closed
☒ licensed
☐ unlicensed
☐ construction permit
☐ open, 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: yds3
Estimated lifetime: years
Estimated days open per year: days
Estimated yearly disposal volume: yds3

Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Comins Township Transfer Station

County: Oscoda

Location: Town: 27 N

Range: 3 E

Section(s): 18

Map identifying location included in Attachment Section: Yes

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: Montmorency-Oscoda –Alpena Sanitary Landfill

Owner: Publicly owned by Comins Township

Operating Status (check)

☒ open
closed
☒ licensed
unlicensed
construction permit
open, 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: yds3
Estimated lifetime: years
Estimated days open per year: days
Estimated yearly disposal volume: yds3

Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Elmer Township Transfer Station

County: Oscoda

Location: Town: 27 N

Range: 1 E

Section(s): 23

Map identifying location included in Attachment Section: No

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

Owner: Publicly owned by Elmer Township

Operating Status (check)

☒ open
closed
☒ licensed
unlicensed
construction permit
open, 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: yds3
Estimated lifetime: years
Estimated days open per year: days
Estimated yearly disposal volume: yds3

Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Greenwood Township Transfer Station

County: Oscoda

Location: Town: 28 N

Range: 1 E

Section(s): 34

Map identifying location included in Attachment Section: Yes

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: Montmorency-Oscoda –Alpena Sanitary Landfill

Owner: Publicly owned by Greenwood Township

Operating Status (check)

☒ open
closed
☒ licensed
unlicensed
construction permit
open, 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: yds3

Estimated lifetime: years

Estimated days open per year: days

Estimated yearly disposal volume: yds3

Annual energy production:

Landfill gas recovery projects: megawatts

Waste-to-energy incinerators: megawatt

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Big Creek Township Transfer Station

County: Oscoda

Location: Town: 26 N

Range: 2 E

Section(s): 15

Map identifying location included in Attachment Section: Yes

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: Montmorency-Oscoda –Alpena Sanitary Landfill

Owner: Publicly owned by Big Creek Township

Operating Status (check)

☒ open

☐ closed

☒ licensed

☐ unlicensed

☐ construction permit

☐ open, 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: yds3

Estimated lifetime: years

Estimated days open per year: days

Estimated yearly disposal volume: yds3

Annual energy production:

Landfill gas recovery projects: megawatts

Waste-to-energy incinerators: megawatt

TOWNSHIP OF LOUD, ORDINANCE NO. 1991-01

COUNTY OF MONTHORENCY

STATE OF MICHIGAN

AN ORDINANCE IMPOSING A SOLID WASTE IMPACT FEE AND A SOLID WASTE INCINERATOR ASH IMPACT FEE TO BE USED FOR THE PUBLIC HEALTH, SAFETY, OR WELFARE OF LOUD TOWNSHIP, PROVIDING FOR COLLECTION OF THE IMPACT FEES AND IMPOSING A PENALTY FOR THE VIOLATION OF THIS ORDINANCE.

THE TOWNSHIP OF LOUD ORDAINS:

SECTION 1. IMPOSITION OF IMPACT FEE.

Pursuant to Public Acts of 1990, Act No. 66 (MCLA 299.424a), Loud Township hereby imposes an impact fee of \$0.10 per cubic yard on solid waste disposed of in all landfills located in Loud Township that are utilized by the public and utilized to dispose of solid waste collected from two or more persons, and \$0.10 per cubic yard of municipal solid waste incinerator ash that is disposed of in all landfills located in Loud Township that are utilized to dispose of municipal solid waste incinerator ash.

SECTION 2. COLLECTION OF IMPACT FEE.

Said fees shall be collected by the owner of the landfill, as required by Act No. 66, and paid quarterly to the Loud Township Treasurer by the 30th day after the end of each calendar quarter. The owner may authorize the operator of the landfill to collect and pay the same, but the owner shall remain primarily responsible. There being no revenue paid to or available to Loud Township from the landfill under the terms of any preexisting agreements, said impact fee is not subject to reduction.

SECTION 3. USE OF IMPACT FEE.

Until or unless a trust fund is established pursuant to subsection 6 of section 24A of Act No. 66, all revenue collected pursuant to this ordinance shall be deposited in the Township's general fund to be used for any purpose that promotes the public health, safety, or welfare of the citizens of Loud Township, except that said funds shall not be used to bring or support a lawsuit or other legal action against the owner or operator of the landfill who is collecting an impact fee unless the owner or operator of the landfill has instituted a lawsuit or other legal action against the municipality.

SECTION 4. SEVERABILITY CLAUSE.

Should any section, clause, or paragraph of this ordinance be declared by a court of competent jurisdiction to be invalid, the same will not affect the validity of the ordinance as a whole or part thereof other than the part declared to be invalid.

SECTION 5. REPEALING CLAUSE.

All former ordinances or parts thereof conflicting or inconsistent with the provisions of this ordinance are hereby repealed.

SECTION 6. PENALTY.

Any persons, firm or corporation who shall violate or assist in the violation of any provisions of this ordinance shall be guilty of a misdemeanor punishable by a fine of not more than \$500.00 or by imprisonment in the county jail for a period of not exceeding 90 days, or both such fine and imprisonment. Every day that such violation shall continue shall constitute a separate and distinct violation under the provisions of this ordinance.

SECTION 7. PUBLICATION.

This ordinance shall be published once, in full, in a newspaper of general circulation within the boundaries of Loud Township, and qualified under State law to publish legal notices, promptly after its adoption, and the same shall be recorded in the Ordinance Book of the Township and such recording authenticated by the signature of the Township Clerk.

SECTION 8. EFFECTIVE DATE.

This ordinance shall take effect 30 days after the day of publication thereof.

CERTIFICATION

I hereby certify that the foregoing constitutes a true and complete copy of an Ordinance duly adopted by the Township Board of the Township of Loud, County of Montmorency, Michigan, at a regular meeting held on the 17th day of JANUARY, 1991.

I further certify that the following Board members were present at said meeting.

SUPERVISOR Ed Steele

TRUSTEE Audrey Williams

CLERK Elsie Bixel

TRUSTEE Robert Hicks

TREASURER Linda Boron

And that the following Board members were absent:

NONE

I further certify that LINDA BORON
moved adoption of said Ordinance and that said motion was
supported by AUDREY WILLIAMS.

I further certify that the following Board members voted for
the adoption of said Ordinance:

Ed Steele

Audrey Williams

Elsie Bixel

Robert Hicks

Linda Boron

That the following Board members voted against the adoption of
said Ordinance:

NONE

DATED: JANUARY 17, 1991

Elsie Bixel
Elsie Bixel
Loud Township Clerk



Hillman Township

P. O. Box 25

Hillman, Michigan 49746

(517) 742-3096

Fax: (517) 742-4590

RESOLUTION NO: 97-7

At the regular meeting of the two, of Hillman, County of Montmorency, held on
(Township/Village)
Monday, December 16, 1997, on a motion by Daryl Peterson, and seconded by
Karen Funk, the following action was taken:

WHEREAS; The Montmorency and Oscoda County Boards of Commissioners have voted to pursue an Agreement with Alpena County for the joint operation and ownership of the Landfill located in Loud Township, Montmorency County; and

WHEREAS; Bonding must be obtained to proceed with the construction of a 5.4 acre cell to secure disposal capacity for the future waste disposal of Alpena, Oscoda and Montmorency Counties; and

WHEREAS; The Solid Waste Management Plan Updates are currently being prepared, which define future waste disposal capacities and disposal options for each County in the State of Michigan; and

WHEREAS; The Montmorency/Oscoda Joint Sanitary Landfill Committee is requesting support from all municipalities located in the three Counties for the proposed Landfill expansion; and

WHEREAS; It is instrumental to the future of said Landfill to have this support prior to obtaining necessary bonding for construction; and

WHEREAS; Without this support, the only alternative would be for the Landfill to close which would leave the Counties without this disposal option.

NOW THEREFORE BE IT RESOLVED, that the Township of Hillman, located in Montmorency, County, State of Michigan, hereby expresses its support for the expansion of the Landfill located in Montmorency County.

BE IT FURTHER RESOLVED, that the Township of Hillman, located in Montmorency, County, State of Michigan, will support language in the Solid Waste Management Plan Update which will direct the flow of Type II waste to the Landfill located in Montmorency County, and will also name an alternate disposal option as recommended by the Solid Waste Planning Committee.

PRESENT:

Daryl Peterson

Patricia J. Achatz

Karen Funk

H. F. Benac, Sr.

James Ableidinger

ABSENT:

none

YEAS: 5 NAYS: 0

RESOLUTION NO:

At the regular meeting of the Township, County of Montmorency held on
(Township/Village)
December 9, 1997, on a motion by Hardies, and seconded by
Klein, the following action was taken:

WHEREAS; The Montmorency and Oscoda County Boards of Commissioners have voted to pursue an Agreement with Alpena County for the joint operation and ownership of the Landfill located in Loud Township, Montmorency County; and

WHEREAS; Bonding must be obtained to proceed with the construction of a 5.4 acre cell to secure disposal capacity for the future waste disposal of Alpena, Oscoda and Montmorency Counties; and

WHEREAS; The Solid Waste Management Plan Updates are currently being prepared, which define future waste disposal capacities and disposal options for each County in the State of Michigan; and

WHEREAS; The Montmorency/Oscoda Joint Sanitary Landfill Committee is requesting support from all municipalities located in the three Counties for the proposed Landfill expansion; and

WHEREAS; It is instrumental to the future of said Landfill to have this support prior to obtaining necessary bonding for construction; and

WHEREAS; Without this support, the only alternative would be for the Landfill to close which would leave the Counties without this disposal option.

NOW THEREFORE BE IT RESOLVED, that the Township of Montmorency, located in Montmorency County, State of Michigan, hereby expresses its support for the expansion of the Landfill located in Montmorency County.

BE IT FURTHER RESOLVED, that the Township of Montmorency, located in Montmorency County, State of Michigan, will support language in the Solid Waste Management Plan Update which will direct the flow of Type II waste to the Landfill located in Montmorency County, and will also name an alternate disposal option as recommended by the Solid Waste Planning Committee.

PRESENT:

C. Brldrey
B. Hardies
J. Steink
D. Klein
C. Brandt

ABSENT:

- C -

YEAS: 5 NAYS: 0

RESOLUTION NO: 97-11

At the regular meeting of the Village/Hillman County of Montmorency held on
(Township/Village)
December 2, 1997, on a motion by James Stoddard, and seconded by
Doris Shumaker the following action was taken:

WHEREAS; The Montmorency and Oscoda County Boards of Commissioners have voted to pursue an Agreement with Alpena County for the joint operation and ownership of the Landfill located in Loud Township, Montmorency County; and

WHEREAS; Bonding must be obtained to proceed with the construction of a 5.4 acre cell to secure disposal capacity for the future waste disposal of Alpena, Oscoda and Montmorency Counties; and

WHEREAS; The Solid Waste Management Plan Updates are currently being prepared, which define future waste disposal capacities and disposal options for each County in the State of Michigan; and

WHEREAS; The Montmorency/Oscoda Joint Sanitary Landfill Committee is requesting support from all municipalities located in the three Counties for the proposed Landfill expansion; and

HEREAS; It is instrumental to the future of said Landfill to have this support prior to obtaining necessary bonding for construction; and

WHEREAS; Without this support, the only alternative would be for the Landfill to close which would leave the Counties without this disposal option.

NOW THEREFORE BE IT RESOLVED, that the Village of Hillman, located in Montmorency County, State of Michigan, hereby expresses its support for the expansion of the Landfill located in Montmorency County.

BE IT FURTHER RESOLVED, that the Village of Hillman, located in Montmorency County, State of Michigan, will support language in the Solid Waste Management Plan Update which will direct the flow of Type II waste to the Landfill located in Montmorency County, and will also name an alternate disposal option as recommended by the Solid Waste Planning Committee.

PRESENT:

Myron McIntire
James Stoddard
Doris Shumaker
Ron Lounsbury
Dan Painter
Linda Goossens

ABSENT:

Wilbur Funk

YEAS: 6 NAYS: 0

ALBERT TOWNSHIP, MONTMORENCY COUNTY, MICHIGAN
RESOLUTION 97-3

A RESOLUTION EXPRESSING ALBERT TOWNSHIP SUPPORT
FOR THE EXPANSION OF THE LANDFILL LOCATED IN MONTMORENCY COUNTY

WHEREAS: The Montmorency and Oscoda County Boards of Commissioners have voted to pursue an Agreement with Alpena County for the joint operation and ownership of the Landfill located in Loud Township, Montmorency County; and

WHEREAS: Bonding must be obtained to proceed with the construction of a 5.4 acre cell to secure disposal capacity for the future waste disposal of Alpena, Oscoda and Montmorency Counties; and

WHEREAS: The Solid Waste Management Plan Updates are currently being prepared, which define future waste disposal capacities and disposal options for each County in the State of Michigan; and

WHEREAS: The Montmorency/Oscoda Joint Sanitary Landfill Committee is requesting support from all municipalities located in the three Counties for the proposed Landfill expansion; and

WHEREAS: It is instrumental to the future of said Landfill to have this support prior to obtaining necessary bonding for construction; and

WHEREAS: Without this support, the only alternative would be for the Landfill to close, which would leave the Counties without this disposal option;

NOW, THEREFORE, BE IT RESOLVED, that the Township of Albert, located in Montmorency County, State of Michigan, hereby expressed its support for the expansion of the Landfill located in Montmorency County.

BE IT FURTHER RESOLVED, that the Township of Albert, located in Montmorency County, State of Michigan, will support language in the Solid Waste Management Plan Update which will direct the flow of Type II waste to the Landfill located in Montmorency County, and will also name an alternate disposal option as recommended by the Solid Waste Planning Committee.

The foregoing resolution offered by Board Member Dennis Hunter
and supported by Board Member Merrill Petoskey.

Board Members Voting Aye:	Nay:	Absent:
<u>Merrill Petoskey</u>	<u>-0-</u>	<u>-0-</u>
<u>Marcia Bolser</u>		
<u>Richard Anderson</u>		
<u>Dennis Hunter</u>		
<u>John Righi</u>		

Motion carried.

I, the undersigned, Clerk of the Township of Albert, do hereby certify that this document is on file with the Township of Albert and was adopted at the regular meeting of the Albert Township Board held on December 1, 1997.


DENNIS H. HUNTER, TOWNSHIP CLERK



Landfill Expansion Resolution

Resolved by: The Briley Township Board

Whereas, the county requests the Township pass a resolution supporting expansion of the landfill project and assures the Township Board the expanded landfill will be self-supporting and will not add to the tax burden of Briley Township taxpayers,

Now, Therefore, Be It Resolved, that the Briley Township Board hereby approves of the county's plan to add a cell at the landfill and bring Alpena County into the landfill agreement,

Further, Be It Resolved, that if addition of the proposed cell would add a tax burden to the citizens of Briley Township the Board does not approve of the cell addition.

The foregoing resolution is offered by Board Member Cheedie and supported by Board Member Edwards.

Upon a roll call vote, the following voted:

Aye: Cheedie, Comber, Edwards, Wasek, Gohl

No: None

Absent: None

Supervisor Edwards, declared the resolution adopted.

Briley Township Clerk

Certificate

I, Edwin H. Comber, the duly elected and acting Clerk of Briley Township, hereby certify that the foregoing resolution was adopted by the Township Board of said Township at a regular meeting of said Board held on February 23, 1998, at which meeting a quorum was presented by a roll call vote of said members as hereinbefore set forth; that said resolution was ordered to take immediate effect.

Briley Township Clerk

RESOLUTION NO:

At the regular meeting of the TOWNSHIP OF LOUD, County of MONTMORENCY held on
(Township/Village)
FEBRUARY 19, 1998, on a motion by LINDA HICKS, and seconded by
AUDREY WILLIAMS the following action was taken:

WHEREAS; The Montmorency and Oscoda County Boards of Commissioners have voted to pursue an Agreement with Alpena County for the joint operation and ownership of the Landfill located in Loud Township, Montmorency County; and

WHEREAS; Bonding must be obtained to proceed with the construction of a 5.4 acre cell to secure disposal capacity for the future waste disposal of Alpena, Oscoda and Montmorency Counties; and

WHEREAS; The Solid Waste Management Plan Updates are currently being prepared, which define future waste disposal capacities and disposal options for each County in the State of Michigan; and

WHEREAS; The Montmorency/Oscoda Joint Sanitary Landfill Committee is requesting support from all municipalities located in the three Counties for the proposed Landfill expansion; and

WHEREAS; It is instrumental to the future of said Landfill to have this support prior to obtaining necessary bonding for construction; and

WHEREAS; Without this support, the only alternative would be for the Landfill to close which would leave the Counties without this disposal option.

NOW THEREFORE BE IT RESOLVED, that the Township of LOUD, located in MONTMORENCY, County, State of Michigan, hereby expresses its support for the expansion of the Landfill located in Montmorency County.

BE IT FURTHER RESOLVED, that the Township of LOUD, located in MONTMORENCY County, State of Michigan, will support language in the Solid Waste Management Plan Update which will direct the flow of Type II waste to the Landfill located in Montmorency County, and will also name an alternate disposal option as recommended by the Solid Waste Planning Committee.

PRESENT:

FRANK BEAUREGARD
ELSIE BIXEL
LINDA HICKS
AUDREY WILLIAMS
RALPH KLEIN

ABSENT:

NONE

YEAS: 5 NAYS: 0

RESOLUTION NO:

At the regular meeting of the Big Creek Township, County of Oscoda, held on
(Township/Village)
December 15, 1997, on a motion by Sanderson, and seconded by
Miteen, the following action was taken:

WHEREAS; The Montmorency and Oscoda County Boards of Commissioners have voted to pursue an Agreement with Alpena County for the joint operation and ownership of the Landfill located in Loud Township, Montmorency County; and

WHEREAS; Bonding must be obtained to proceed with the construction of a 5.4 acre cell to secure disposal capacity for the future waste disposal of Alpena, Oscoda and Montmorency Counties; and

WHEREAS; The Solid Waste Management Plan Updates are currently being prepared, which define future waste disposal capacities and disposal options for each County in the State of Michigan; and

WHEREAS; The Montmorency/Oscoda Joint Sanitary Landfill Committee is requesting support from all municipalities located in the three Counties for the proposed Landfill expansion; and

WHEREAS; It is instrumental to the future of said Landfill to have this support prior to obtaining necessary bonding for construction; and

WHEREAS; Without this support, the only alternative would be for the Landfill to close which would leave the Counties without this disposal option.

NOW THEREFORE BE IT RESOLVED, that the Township of Big Creek, located in Oscoda County, State of Michigan, hereby expresses its support for the expansion of the Landfill located in Montmorency County.

BE IT FURTHER RESOLVED, that the Township of Big Creek, located in Oscoda County, State of Michigan, will support language in the Solid Waste Management Plan Update which will direct the flow of Type II waste to the Landfill located in Montmorency County, and will also name an alternate disposal option as recommended by the Solid Waste Planning Committee.

PRESENT:

Booth
Gilbert
Sanderson
Miteen
Dennis

ABSENT:

NONE

YEAS: 5 NAYS: -0-

RESOLUTION NO:

At the regular meeting of the Comins Twp Bd., County of Oscoda, held on
(Township/Village)
Tues. Jan. 27, 1998, on a motion by S. Ellis, and seconded by
S. Marble, the following action was taken:

WHEREAS; The Montmorency and Oscoda County Boards of Commissioners have voted to pursue an Agreement with Alpena County for the joint operation and ownership of the Landfill located in Loud Township, Montmorency County; and

WHEREAS; Bonding must be obtained to proceed with the construction of a 5.4 acre cell to secure disposal capacity for the future waste disposal of Alpena, Oscoda and Montmorency Counties; and

WHEREAS; The Solid Waste Management Plan Updates are currently being prepared, which define future waste disposal capacities and disposal options for each County in the State of Michigan; and

WHEREAS; The Montmorency/Oscoda Joint Sanitary Landfill Committee is requesting support from all municipalities located in the three Counties for the proposed Landfill expansion; and

WHEREAS; It is instrumental to the future of said Landfill to have this support prior to obtaining necessary bonding for construction; and

WHEREAS; Without this support, the only alternative would be for the Landfill to close which would leave the Counties without this disposal option.

NOW THEREFORE BE IT RESOLVED, that the Township of Comins, located in Oscoda, County, State of Michigan, hereby expresses its support for the expansion of the Landfill located in Montmorency County.

BE IT FURTHER RESOLVED, that the Township of Comins, located in Oscoda, County, State of Michigan, will support language in the Solid Waste Management Plan Update which will direct the flow of Type II waste to the Landfill located in Montmorency County, and will also name an alternate disposal option as recommended by the Solid Waste Planning Committee.

PRESENT:

T. Chicha

J. Troyer

A. Handrich

S. Ellis

S. Marble

ABSENT:

YEAS: 5 NAYS: 0

RESOLUTION NO:

At the regular meeting of the Twp. of Elmer, County of Oscoda, held on
Feb 16, 1998, on a motion by Rose Heppner, and seconded by
Richard Ellis, the following action was taken:

WHEREAS; The Montmorency and Oscoda County Boards of Commissioners have voted to pursue an Agreement with Alpena County for the joint operation and ownership of the Landfill located in Loud Township, Montmorency County; and

WHEREAS; Bonding must be obtained to proceed with the construction of a 5.4 acre cell to secure disposal capacity for the future waste disposal of Alpena, Oscoda and Montmorency Counties; and

WHEREAS; The Solid Waste Management Plan Updates are currently being prepared, which define future waste disposal capacities and disposal options for each County in the State of Michigan; and

WHEREAS; The Montmorency/Oscoda Joint Sanitary Landfill Committee is requesting support from all municipalities located in the three Counties for the proposed Landfill expansion; and

WHEREAS; It is instrumental to the future of said Landfill to have this support prior to obtaining necessary bonding for construction; and

WHEREAS; Without this support, the only alternative would be for the Landfill to close which would leave the Counties without this disposal option.

NOW THEREFORE BE IT RESOLVED, that the Township of Elmer, located in Oscoda, County, State of Michigan, hereby expresses its support for the expansion of the Landfill located in Montmorency County.

BE IT FURTHER RESOLVED, that the Township of Elmer, located in Oscoda County, State of Michigan, will support language in the Solid Waste Management Plan Update which will direct the flow of Type II waste to the Landfill located in Montmorency County, and will also name an alternate disposal option as recommended by the Solid Waste Planning Committee.

PRESENT:

Dorothy Hallbreith
Rose Heppner
Ray Heppner
Richard Ellis

ABSENT:

1

YEAS: 4 NAYS: 0

RESOLUTION NO: 97-04

At the regular meeting of the Greenwood, County of Oscoda, held on
(Township/Village)
December 9, 1997, on a motion by Chalmers, and seconded by
P. Kubitskey, the following action was taken:

WHEREAS; The Montmorency and Oscoda County Boards of Commissioners have voted to pursue an Agreement with Alpena County for the joint operation and ownership of the Landfill located in Loud Township, Montmorency County; and

WHEREAS; Bonding must be obtained to proceed with the construction of a 5.4 acre cell to secure disposal capacity for the future waste disposal of Alpena, Oscoda and Montmorency Counties; and

WHEREAS; The Solid Waste Management Plan Updates are currently being prepared, which define future waste disposal capacities and disposal options for each County in the State of Michigan; and

WHEREAS; The Montmorency/Oscoda Joint Sanitary Landfill Committee is requesting support from all municipalities located in the three Counties for the proposed Landfill expansion; and

WHEREAS; It is instrumental to the future of said Landfill to have this support prior to obtaining necessary bonding for construction; and

WHEREAS; Without this support, the only alternative would be for the Landfill to close which would leave the Counties without this disposal option.

NOW THEREFORE BE IT RESOLVED, that the Township of Greenwood, located in Oscoda, County, State of Michigan, hereby expresses its support for the expansion of the Landfill located in Montmorency County.

BE IT FURTHER RESOLVED, that the Township of Greenwood, located in Oscoda, County, State of Michigan, will support language in the Solid Waste Management Plan Update which will direct the flow of Type II waste to the Landfill located in Montmorency County, and will also name an alternate disposal option as recommended by the Solid Waste Planning Committee.

PRESENT:

Mathewson, Supv.
Kubitskey, Treas.
Powers, Clerk
Chalmers, Trustee
Hanahan, Trustee

ABSENT:

 -0-

YEAS: 5 NAYS: 0

RESOLUTION NO:

At the regular meeting of the Clinton, County of Oscoda, held on
December 1, 1997, ^(Township Meeting) on a motion by Chris Neff, and seconded by
Carol Fredrickson, the following action was taken:

WHEREAS; The Montmorency and Oscoda County Boards of Commissioners have voted to pursue an Agreement with Alpena County for the joint operation and ownership of the Landfill located in Loud Township, Montmorency County; and

WHEREAS; Bonding must be obtained to proceed with the construction of a 5.4 acre cell to secure disposal capacity for the future waste disposal of Alpena, Oscoda and Montmorency Counties; and

WHEREAS; The Solid Waste Management Plan Updates are currently being prepared, which define future waste disposal capacities and disposal options for each County in the State of Michigan; and

WHEREAS; The Montmorency/Oscoda Joint Sanitary Landfill Committee is requesting support from all municipalities located in the three Counties for the proposed Landfill expansion; and

WHEREAS; It is instrumental to the future of said Landfill to have this support prior to obtaining necessary bonding for construction; and

WHEREAS; Without this support, the only alternative would be for the Landfill to close which would leave the Counties without this disposal option.

NOW THEREFORE BE IT RESOLVED, that the Township of Clinton, located in Oscoda, County, State of Michigan, hereby expresses its support for the expansion of the Landfill located in Montmorency County.

BE IT FURTHER RESOLVED, that the Township of Clinton, located in Oscoda, County, State of Michigan, will support language in the Solid Waste Management Plan Update which will direct the flow of Type II waste to the Landfill located in Montmorency County, and will also name an alternate disposal option as recommended by the Solid Waste Planning Committee.

PRESENT:

Marla Green Clerk
Ken Teoyee Supervisor
Dawn Harrison Treasurer
Chris Neff Trustee
Carol Fredrickson Trustee

ABSENT:

YEAS: 5 NAYS:

RESOLUTION NO: 3-97

At the regular meeting of the Township, County of Oscoda, held on
Dec. 15, 1997, on a motion by Sherwood, and seconded by
Kann, the following action was taken:

WHEREAS; The Montmorency and Oscoda County Boards of Commissioners have voted to pursue an Agreement with Alpena County for the joint operation and ownership of the Landfill located in Loud Township, Montmorency County; and

WHEREAS; Bonding must be obtained to proceed with the construction of a 5.4 acre cell to secure disposal capacity for the future waste disposal of Alpena, Oscoda and Montmorency Counties; and

WHEREAS; The Solid Waste Management Plan Updates are currently being prepared, which define future waste disposal capacities and disposal options for each County in the State of Michigan; and

WHEREAS; The Montmorency/Oscoda Joint Sanitary Landfill Committee is requesting support from all municipalities located in the three Counties for the proposed Landfill expansion; and

WHEREAS; It is instrumental to the future of said Landfill to have this support prior to obtaining necessary bonding for construction; and

WHEREAS; Without this support, the only alternative would be for the Landfill to close which would leave the Counties without this disposal option.

NOW THEREFORE BE IT RESOLVED, that the Township of Mentor, located in Oscoda, County, State of Michigan, hereby expresses its support for the expansion of the Landfill located in Montmorency County.

BE IT FURTHER RESOLVED, that the Township of Mentor, located in Oscoda, County, State of Michigan, will support language in the Solid Waste Management Plan Update which will direct the flow of Type II waste to the Landfill located in Montmorency County, and will also name an alternate disposal option as recommended by the Solid Waste Planning Committee.

PRESENT:

G. Wyckoff
N. Crane
D. Kann
L. Sherwood

ABSENT:

K. Velten

YEAS: 4 NAYS: 0

RESOLUTION NO:

At the regular meeting of the Rust, County of Montmorency, held on
January 5, 1998, on a motion by Porter, and seconded by
Harris, the following action was taken:

WHEREAS; The Montmorency and Oscoda County Boards of Commissioners have voted to pursue an Agreement with Alpena County for the joint operation and ownership of the Landfill located in Loud Township, Montmorency County; and

WHEREAS; Bonding must be obtained to proceed with the construction of a 5.4 acre cell to secure disposal capacity for the future waste disposal of Alpena, Oscoda and Montmorency Counties; and

WHEREAS; The Solid Waste Management Plan Updates are currently being prepared, which define future waste disposal capacities and disposal options for each County in the State of Michigan; and

WHEREAS; The Montmorency/Oscoda Joint Sanitary Landfill Committee is requesting support from all municipalities located in the three Counties for the proposed Landfill expansion; and

WHEREAS; It is instrumental to the future of said Landfill to have this support prior to obtaining necessary bonding for construction; and

WHEREAS; Without this support, the only alternative would be for the Landfill to close which would leave the Counties without this disposal option.

NOW THEREFORE BE IT RESOLVED, that the Township of Rust, located in Montmorency, County, State of Michigan, hereby expresses its support for the expansion of the Landfill located in Montmorency County.

BE IT FURTHER RESOLVED, that the Township of Rust, located in Montmorency, County, State of Michigan, will support language in the Solid Waste Management Plan Update which will direct the flow of Type II waste to the Landfill located in Montmorency County, and will also name an alternate disposal option as recommended by the Solid Waste Planning Committee.

PRESENT:

Newton
Banks
Porter
Pfeiffer
Harris

ABSENT:

none

YEAS: 5 NAYS: 0

RESOLUTION

At the regular meeting of the Avery, Twp. Board, County of Montmorency, held on Tuesday, January 6, 1998, on a motion by Michael Teets, and seconded by Clarence Tucker, the following action was taken.

- WHEREAS: The Montmorency and Oscoda County Boards of commissioners have voted to pursue an Agreement with Alpena County for the joint operation and ownership of the Landfill located in Loud Township, Montmorency County; and
- WHEREAS: Bonding must be obtained to proceed with the construction of a 5.4 acre cell to secure disposal capacity for the future waste disposal of Alpena, Oscoda and Montmorency Counties; and
- WHEREAS: The Solid Waste Management Plan Updates are currently being prepared, which define future waste disposal capacities and disposal options for each County in the State of Michigan; and
- WHEREAS: The Montmorency/Oscoda Joint Sanitary Landfill Committee is requesting support from all municipalities located in the three Counties for the proposed Landfill expansion; and
- WHEREAS: It is instrumental to the future of said Landfill to have this support prior to obtaining necessary bonding for construction; and
- WHEREAS: Without this support the only alternative would be for the Landfill to close which would leave the Counties without this disposal option.

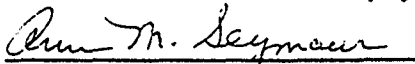
NOW ,THEREFORE, BE IT RESOLVED, that the Township of Avery, located in Montmorency County, State of Michigan, hereby expresses its support for the expansion of the landfill located in Montmorency County.

BE IT FURTHER RESOLVED, that the Township of Avery, located in Montmorency County, State of Michigan, will support language in the Solid Waste Management Plan Update which will direct the flow of Type II waste to the Landfill located in Montmorency County, and will also name an alternate disposal option as recommended by the solid Waste Planning Committee.


The above mentioned resolution was offered by Board member Michael Teets, and supported by Board Member Clarence Tucker.

The Supervisor declared the resolution adopted by the following roll call vote: Upon "AYE": Thomas Seymour, Ann Seymour, Clarence Tucker, Michael Teets.

The following voted "Nay": None; and one was ABSENT: David McMurphy.


Ann M. Seymour, Clerk

I, Ann M. Seymour, the duly elected and acting Clerk of Avery Township, hereby certify that the foregoing resolution was adopted by the Township Board of said Township at the regular meeting of said board held on January 6, 1998, at which meeting a quorum was present by a roll call vote of said members as hereinbefore set forth: that said resolution was ordered to take immediate effect.


Ann M. Seymour, Clerk

DATE: January 7, 1998

RESOLUTION

At the regular meeting of the Avery, Twp. Board, County of Montmorency, held on Tuesday, January 6, 1998, on a motion by Michael Teets, and seconded by Clarence Tucker, the following action was taken.

- WHEREAS: The Montmorency and Oscoda County Boards of commissioners have voted to pursue an Agreement with Alpena County for the joint operation and ownership of the Landfill located in Loud Township, Montmorency County; and
- WHEREAS: Bonding must be obtained to proceed with the construction of a 5.4 acre cell to secure disposal capacity for the future waste disposal of Alpena, Oscoda and Montmorency Counties; and
- WHEREAS: The Solid Waste Management Plan Updates are currently being prepared, which define future waste disposal capacities and disposal options for each County in the State of Michigan; and
- WHEREAS: The Montmorency/Oscoda Joint Sanitary Landfill Committee is requesting support from all municipalities located in the three Counties for the proposed Landfill expansion; and
- WHEREAS: It is instrumental to the future of said Landfill to have this support prior to obtaining necessary bonding for construction; and
- WHEREAS: Without this support the only alternative would be for the Landfill to close which would leave the Counties without this disposal option.

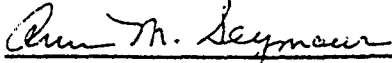
NOW, THEREFORE, BE IT RESOLVED, that the Township of Avery, located in Montmorency County, State of Michigan, hereby expresses its support for the expansion of the landfill located in Montmorency County.

BE IT FURTHER RESOLVED, that the Township of Avery, located in Montmorency County, State of Michigan, will support language in the Solid Waste Management Plan Update which will direct the flow of Type II waste to the Landfill located in Montmorency County, and will also name an alternate disposal option as recommended by the solid Waste Planning Committee.

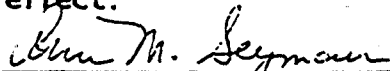
The above mentioned resolution was offered by Board member Michael Teets, and supported by Board Member Clarence Tucker.

The Supervisor declared the resolution adopted by the following roll call vote: Upon "AYE": Thomas Seymour, Ann Seymour, Clarence Tucker, Michael Teets.

The following voted "Nay": None; and one was ABSENT: David McMurphy.


Ann M. Seymour, Clerk

I, Ann M. Seymour, the duly elected and acting Clerk of Avery Township, hereby certify that the foregoing resolution was adopted by the Township Board of said Township at the regular meeting of said board held on January 6, 1998, at which meeting a quorum was present by a roll call vote of said members as hereinbefore set forth: that said resolution was ordered to take immediate effect.


Ann M. Seymour, Clerk

DATE: January 7, 1998

RESOLUTION NO: 98-1

At the regular meeting of the Vienna Township, County of Montmorency, held on
Feb. 10, 1998, (Township/Village) on a motion by Webber, and seconded by
Payne, the following action was taken:

WHEREAS; The Montmorency and Oscoda County Boards of Commissioners have voted to pursue an Agreement with Alpena County for the joint operation and ownership of the Landfill located in Loud Township, Montmorency County; and

WHEREAS; Bonding must be obtained to proceed with the construction of a 5.4 acre cell to secure disposal capacity for the future waste disposal of Alpena, Oscoda and Montmorency Counties; and

WHEREAS; The Solid Waste Management Plan Updates are currently being prepared, which define future waste disposal capacities and disposal options for each County in the State of Michigan; and

WHEREAS; The Montmorency/Oscoda Joint Sanitary Landfill Committee is requesting support from all municipalities located in the three Counties for the proposed Landfill expansion; and

WHEREAS; It is instrumental to the future of said Landfill to have this support prior to obtaining necessary bonding for construction; and

WHEREAS; Without this support, the only alternative would be for the Landfill to close which would leave the Counties without this disposal option.

NOW THEREFORE BE IT RESOLVED, that the Township of Vienna, located in Montmorency, County, State of Michigan, hereby expresses its support for the expansion of the Landfill located in Montmorency County.

BE IT FURTHER RESOLVED, that the Township of Vienna, located in Montmorency County, State of Michigan, will support language in the Solid Waste Management Plan Update which will direct the flow of Type II waste to the Landfill located in Montmorency County, and will also name an alternate disposal option as recommended by the Solid Waste Planning Committee.

PRESENT:

Weaver
Webber
Payne
Black
Klein

ABSENT:

YEAS: 11 NAYS: 0

ATTACHMENT B

Listed Capacity

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

Montmorency/Oscoda Joint Sanitary Landfill

Post Office Box 415
Courthouse Annex
Atlanta, MI 49709
Ph. (517) 785-3358

October 30, 1998

Ms. Diane Rekowski
NEMCOG
121 East Mitchell
Gaylord, MI 49735

Dear Diane:

The Counties of Montmorency and Oscoda are authorized to dispose of up to one hundred percent (100%) of the waste generated in those Counties to the Montmorency/Oscoda Landfill, pursuant to the Flow Control Ordinances as adopted by those Counties.

Sincerely,


Sandy Cunningham
Executive Secretary

November 20, 1998

Diane Rewkowski
Montmorency/Oscoda County Solid Waste Management Planning Committee
PO Box 457
Gaylord, Michigan 49735

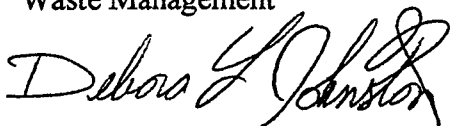
**RE: Disposal Capacity
Waste Management - Waters Landfill**

Dear Ms. Rewkowski,

The purpose of this letter is to certify that Waters Landfill located in Crawford County has sufficient disposal capacity to accept Montmorency/Oscoda County's waste. Waters Landfill has a total permitted capacity of 6,968,000 bank cubic yards. Therefore, more than 66 months of capacity is available to Montmorency/Oscoda County.

Montmorency/Oscoda County can rely on Waters Landfill for its future disposal needs. Please feel free to contact me if I can provide any further information.

Sincerely,
Waste Management



Debora L. Johnston
Divisional Engineer

c: Chad Crawford, WM - Waters



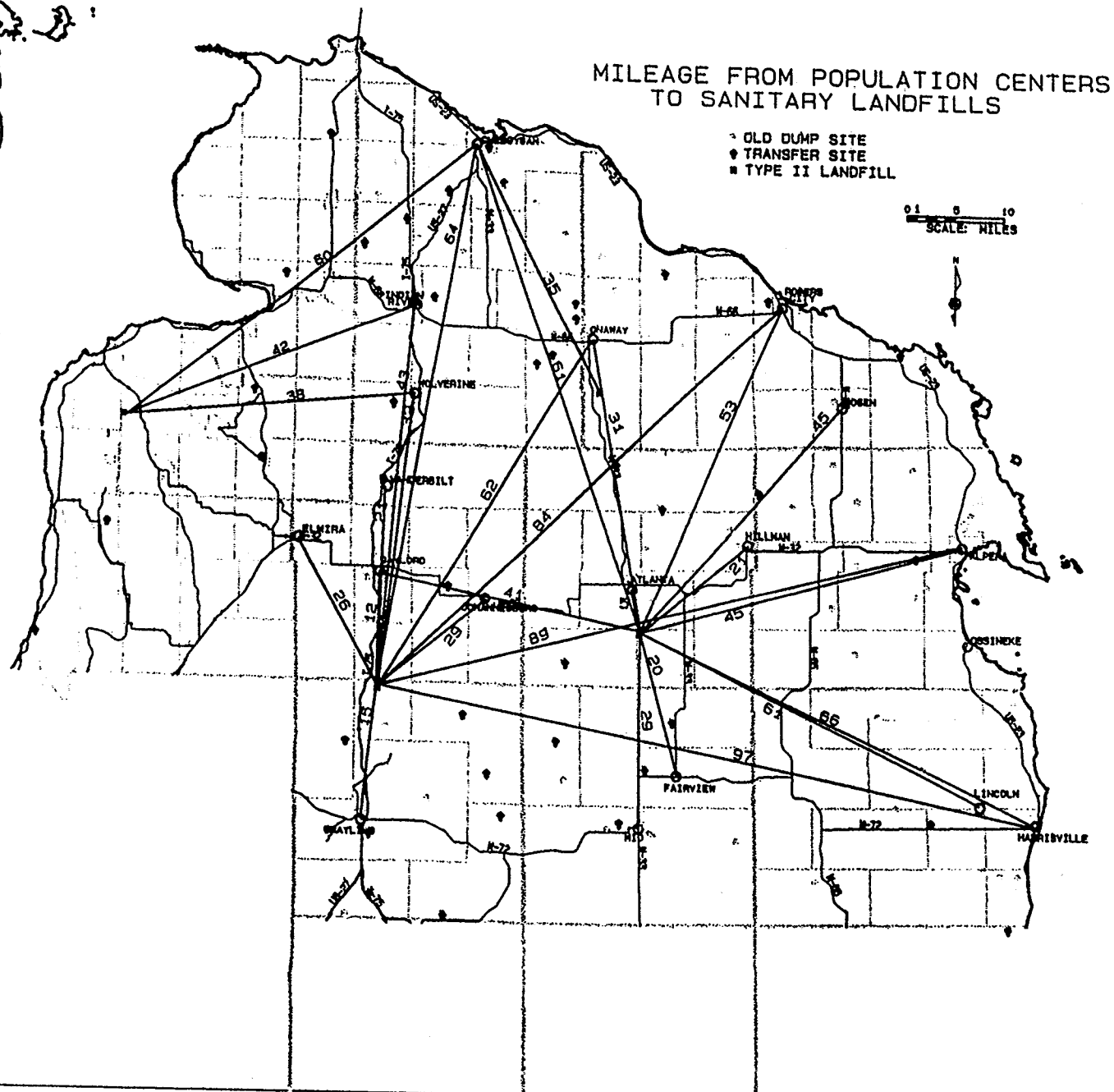
ATTACHMENT C

Maps

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

Map of percent change in population density from 1970 to 1990 in Northeast Michigan.

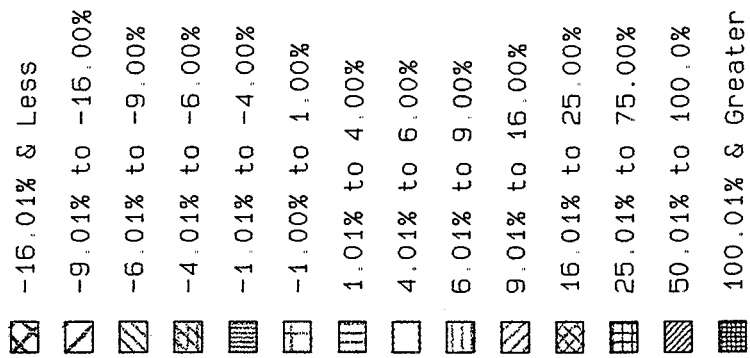
Map of percent change in population from 1970 to 1990 in Northeast Michigan.



% Change 1970 - 1990

Population Density

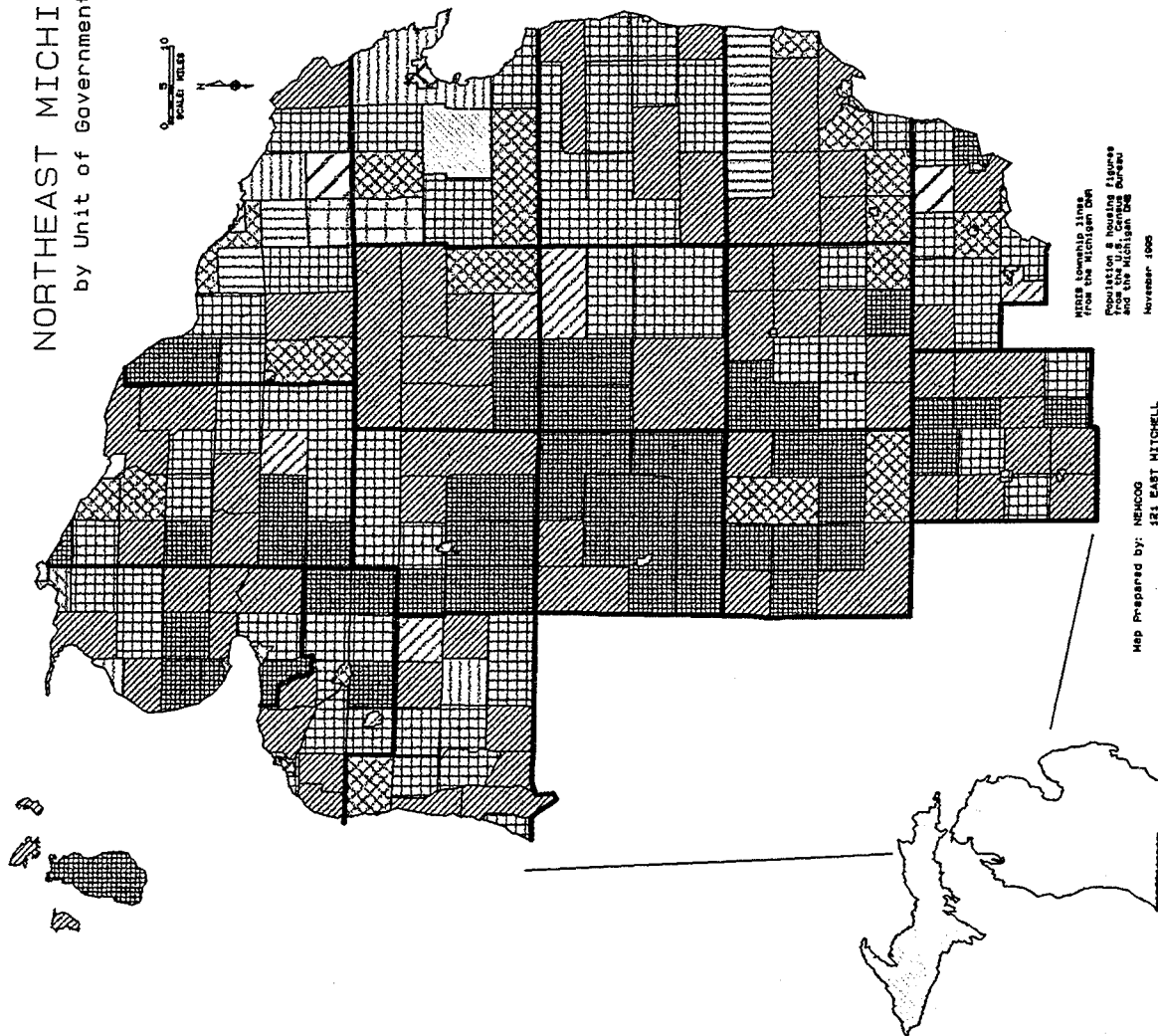
Legend



Change in Persons
Per Square Mile

NEMCOG GIS Program

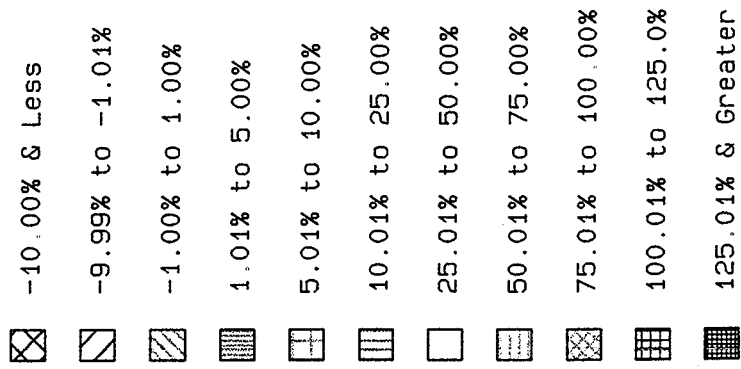
NORTHEAST MICHIGAN by Unit of Government



POPULATION

% CHANGE: 1970-1990

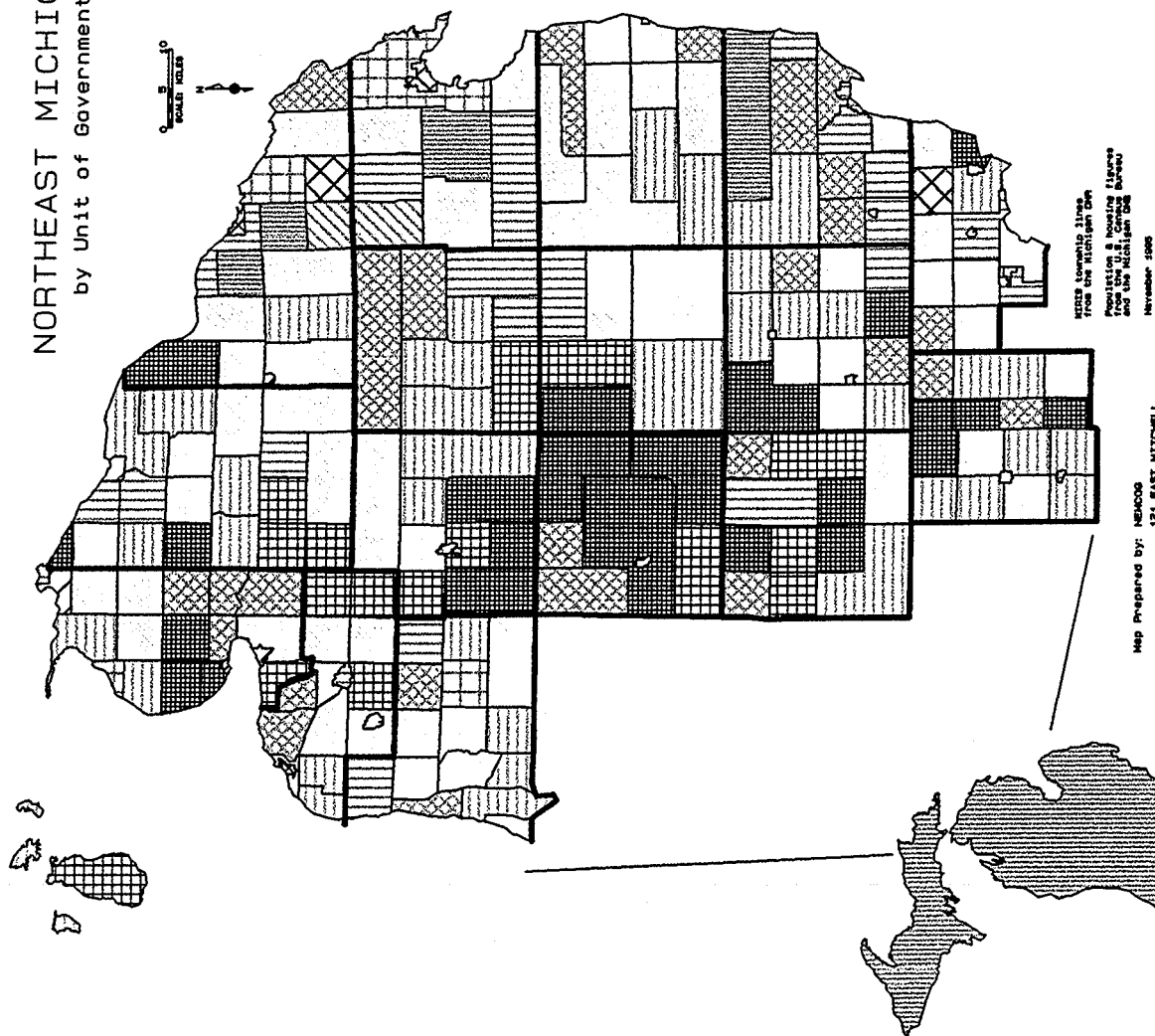
Legend



Northeast Michigan
16 Counties by MCD

NEMCOG GIS Program

NORTHEAST MICHIGAN by Unit of Government



ATTACHMENT D

Inter-County Agreements

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

NONE

ATTACHMENT E

Special Conditions

Special conditions affecting import or export of solid waste.

*O = Other conditions for current import volume authorization of solid waste. The MOSL Authority reserves the right to establish waste hauler allocations into the landfill.

ATTACHMENT F

Tipping Fee Projections

Tipping fee projections for the Montmorency-Oscoda Sanitary Landfill.

MONTMORENCY/OSCODA LANDFILL PROJECTION
145,000 CYD/YR @\$10/CYD; 10 YR BOND PAYBACK

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
EXPENSES CAPITAL										
Cell Construction Area (Acres)	-	5.4	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
Cell Construction	\$0	\$2,400,000	\$800,000	\$800,000	\$800,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000
Financial Assurance			A	A	A	B	B	B	B	B
Cash	\$0	\$0	\$293,760	\$108,800	\$108,800	\$108,800	\$54,400	\$54,400	\$54,400	\$54,400
Financial Test	\$579,828	\$0	\$684,720	\$253,600	\$253,600	\$253,600	\$126,800	\$126,800	\$126,800	\$126,800
Bonding Required	\$0	\$2,400,000	\$735,472	\$655,229	\$748,520	\$455,094	\$465,491	\$531,767	\$607,480	\$693,973
EXPENSES ANNUAL										
Financial Assurance (Cash)	\$0	\$0	\$293,760	\$108,800	\$108,800	\$108,800	\$54,400	\$54,400	\$54,400	\$54,400
Operations and Capping	\$651,200	\$671,900	\$750,000	\$750,000	\$750,000	\$800,000	\$800,000	\$800,000	\$800,000	\$800,000
Bond Payment	\$128,800	\$128,100	\$341,712	\$446,429	\$539,720	\$646,294	\$711,091	\$777,367	\$853,080	\$939,573
Total	\$780,000	\$800,000	\$1,385,472	\$1,305,229	\$1,398,520	\$1,555,094	\$1,565,491	\$1,631,767	\$1,707,480	\$1,793,973
REVENUE ANNUAL										
Total Potential CYD/Yr	85,000	145,000	145,000	145,000	145,000	150,000	150,000	150,000	150,000	150,000
Tipping Fee - Gate	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10
Tipping Fee - Average	\$9.30	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10
Total	\$790,500	\$1,450,000	\$1,450,000	\$1,450,000	\$1,450,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
BALANCE (Not including cell construction)	\$10,500	\$650,000	\$64,528	\$144,771	\$51,480	(\$55,094)	(\$85,491)	(\$131,767)	(\$207,480)	(\$293,973)
NET CASH	\$10,500	\$650,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

NOTE: This spreadsheet utilizes many assumptions and estimates to allow an indication of future financing of the Landfill expansion. Capital Consultants Engineers is NOT an accounting firm and this spreadsheet does not represent a business plan.

The principle assumptions utilized for these calculations are as follows:

Bond payments are for prior year bonding required for cell construction with a TEN year payback at SEVEN % interest

Financial assurance "Cash" is 30% of the overall financial assurance required

Financial assurance "Financial Test" is 70% of the overall financial assurance required

The refuse volume is 145,000 CYD/Yr, the maximum anticipated with Montmorency, Oscoda, and Alpena counties refuse

The tipping fee for the new landfill will be \$10/CYD

MONTMORENCY/OSCODA LANDFILL PROJECTION
145,000 CYD/YR @\$11/CYD; 10 YR BOND PAYBACK

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
EXPENSES CAPITAL										
Cell Construction Area (Acres)	-	5.4	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
Cell Construction	\$0	\$2,400,000	\$800,000	\$800,000	\$800,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000
Financial Assurance			A	A	A	B	B	B	B	B
Cash	\$0	\$0	\$293,760	\$108,800	\$108,800	\$108,800	\$54,400	\$54,400	\$54,400	\$54,400
Financial Test	\$579,828	\$0	\$684,720	\$253,600	\$253,600	\$253,600	\$126,800	\$126,800	\$126,800	\$126,800
Bonding Required	\$0	\$2,400,000	\$590,472	\$489,583	\$559,290	\$233,922	\$212,828	\$243,130	\$277,747	\$317,293
EXPENSES ANNUAL										
Financial Assurance (Cash)	\$0	\$0	\$293,760	\$108,800	\$108,800	\$108,800	\$54,400	\$54,400	\$54,400	\$54,400
Operations and Capping	\$651,200	\$671,900	\$750,000	\$750,000	\$750,000	\$800,000	\$800,000	\$800,000	\$800,000	\$800,000
Bond Payment	\$128,800	\$128,100	\$341,712	\$425,783	\$495,490	\$575,122	\$608,428	\$638,730	\$673,347	\$712,893
Total	\$780,000	\$800,000	\$1,385,472	\$1,284,583	\$1,354,290	\$1,483,922	\$1,462,828	\$1,493,130	\$1,527,747	\$1,567,293
REVENUE ANNUAL										
Total Potential CYD/Yr	85,000	145,000	145,000	145,000	145,000	150,000	150,000	150,000	150,000	150,000
Tipping Fee - Gate	\$10	\$11	\$11	\$11	\$11	\$11	\$11	\$11	\$11	\$11
Tipping Fee - Average	\$9.30	\$11	\$11	\$11	\$11	\$11	\$11	\$11	\$11	\$11
Total	\$790,500	\$1,595,000	\$1,595,000	\$1,595,000	\$1,595,000	\$1,650,000	\$1,650,000	\$1,650,000	\$1,650,000	\$1,650,000
BALANCE (Not including cell construction)	\$10,500	\$795,000	\$209,528	\$310,417	\$240,710	\$166,078	\$187,172	\$158,870	\$122,253	\$82,707
NET CASH	\$10,500	\$795,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

NOTE: This spreadsheet utilizes many assumptions and estimates to allow an indication of future financing of the Landfill expansion. Capital Consultants Engineers is NOT an accounting firm and this spreadsheet does not represent a business plan.

The principle assumptions utilized for these calculations are as follows:

Bond payments are for prior year bonding required for cell construction with a TEN year payback at SEVEN % interest

Financial assurance "Cash" is 30% of the overall financial assurance required

Financial assurance "Financial Test" is 70% of the overall financial assurance required

The refuse volume is 145,000 CYD/Yr, the maximum anticipated with Montmorency, Oscoda, and Alpena counties refuse

The tipping fee for the new landfill will be \$11/CYD

MONTMORENCY/OSCODA LANDFILL PROJECTION
145,000 CYD/YR @\$12/CYD; 10 YR BOND PAYBACK

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
EXPENSES CAPITAL										
Cell Construction Area (Acres)	-	5.4	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
Cell Construction	\$0	\$2,400,000	\$800,000	\$800,000	\$800,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000
Financial Assurance			A	A	A	B	B	B	B	B
Cash	\$0	\$0	\$293,760	\$108,800	\$108,800	\$108,800	\$54,400	\$54,400	\$54,400	\$54,400
Financial Test	\$579,828	\$0	\$684,720	\$253,600	\$253,600	\$253,600	\$126,800	\$126,800	\$126,800	\$126,800
Bonding Required	\$0	\$2,400,000	\$445,472	\$323,938	\$370,061	\$12,750	\$0	\$0	\$0	\$0
EXPENSES ANNUAL										
Financial Assurance (Cash)	\$0	\$0	\$293,760	\$108,800	\$108,800	\$108,800	\$54,400	\$54,400	\$54,400	\$54,400
Operations and Capping	\$651,200	\$671,900	\$750,000	\$750,000	\$750,000	\$800,000	\$800,000	\$800,000	\$800,000	\$800,000
Bond Payment	\$128,800	\$128,100	\$341,712	\$405,138	\$451,261	\$503,950	\$505,765	\$505,765	\$505,765	\$505,765
Total	\$780,000	\$800,000	\$1,385,472	\$1,263,938	\$1,310,061	\$1,412,750	\$1,360,165	\$1,360,165	\$1,360,165	\$1,360,165
REVENUE ANNUAL										
Total Potential CYD/Yr	85,000	145,000	145,000	145,000	145,000	150,000	150,000	150,000	150,000	150,000
Tipping Fee - Gate	\$10	\$12	\$12	\$12	\$12	\$12	\$12	\$12	\$12	\$12
Tipping Fee - Average	\$9.30	\$12	\$12	\$12	\$12	\$12	\$12	\$12	\$12	\$12
Total	\$790,500	\$1,740,000	\$1,740,000	\$1,740,000	\$1,740,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000
BALANCE	\$10,500	\$940,000	\$354,528	\$476,062	\$429,939	\$387,250	\$439,835	\$439,835	\$439,835	\$439,835
(Not including cell construction)										
NET CASH	\$10,500	\$940,000	\$0	\$0	\$0	\$0	\$39,835	\$39,835	\$39,835	\$39,835

NOTE: This spreadsheet utilizes many assumptions and estimates to allow an indication of future financing of the Landfill expansion. Capital Consultants Engineers is NOT an accounting firm and this spreadsheet does not represent a business plan.

The principle assumptions utilized for these calculations are as follows:

Bond payments are for prior year bonding required for cell construction with a TEN year payback at SEVEN % interest

Financial assurance "Cash" is 30% of the overall financial assurance required

Financial assurance "Financial Test" is 70% of the overall financial assurance required

The refuse volume is 145,000 CYD/Yr, the maximum anticipated with Montmorency, Oscoda, and Alpena counties refuse

The tipping fee for the new landfill will be \$12/CYD

ATTACHMENT G

Public Involvement Process

Documentation of the Public Involvement Process.

MEETING NOTICE

**Montmorency-Oscoda Counties
Solid Waste Planning Committee**

March 10, 1999

7:00 p.m.

**Albert Township Hall
Lewiston, MI**

Agenda

- I. Call To Order**
- II. Roll Call**
- III. Review/revisions of Draft Solid Waste Plan**
- IV. Public Comment**
- V. Approval of Solid Waste Plan**
- VI. Adjournment**

OVER

25

**YEARS OF
REGIONAL
COOPERATION
SINCE 1968**

Annual survey indicates rise in bald eagle population

Michigan's 1999 mid-winter bald eagle survey resulted in 708 sightings statewide, an increase of 16 sightings over the 1998 mid-winter survey, according to statistics compiled by the Department of Natural Resources (DNR).

The survey was conducted Jan. 1-15 by the DNR Natural Heritage Program, in cooperation with the U.S. Fish and Wildlife Service. Sightings were recorded from 432 volunteer eagle watchers statewide.

According to figures, Upper Peninsula volunteers reported 235 bald eagle sightings (187 adults and 48 immatures) in 14 counties. Mackinac County reported the most with 55 sightings (19 immature and 36 adult eagles).

Volunteers in the Lower Peninsula reported 473 observations (385 adult and 88 immature eagles) in 56 counties. Crawford County had the high count for the Lower Peninsula with a total of 46 bald eagle observations (38 adults and 8 immatures).

"Eagle reports were often submitted with personal accounts and photographs of documented eagle behavior," said Eve Roilandson,

NOTICES

NOTICE

**GREENWOOD TOWNSHIP VOLUNTEER FIRE
DEPARTMENT IS IN NEED OF VOLUNTEER
FIREPERSONS. IF INTERESTED PLEASE
CONTACT FIRE CHIEF ED KUBITSKEY
517-826-3300.**

**NOTICE OF VACANCIES AND LAST DAY
TO FILE NOMINATING PETITIONS FOR**

FAIRVIEW AREA SCHOOLS' BOARD OF EDUCATION

The terms of office for Frank Holberton and Chris Neff expire on June 30, 1999. The new terms of office are four (4) years beginning July 1, 1999.

Candidates for school board vacancies may obtain nominating petitions at the Superintendent's Office - 1879 E. Miller Rd. - Fairview, MI. The nominating petitions must be filed with the Secretary of the Board of Education at the board office at the same address no later than 4:00 p.m. on April 12, 1999.

PA 461 of 1996 requires a candidate who wishes to seek a school board position with write-in votes to file a "declaration of intent" with the filing official for the office no later than 4:00 p.m. on Friday, June 11, 1999. A declaration of intent form may be obtained at the address listed above.

The annual school election will be held on Monday, June 14, 1999.

**SYNOPSIS OF REGULAR
TOWNSHIP BOARD MEETING
FEBRUARY 9, 1999**

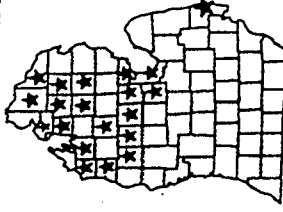
Meeting was called to order at 7:30 p.m. by Supervisor Mathewson. Roll Call - Mathewson, Patricia Kubitskey, Chalmers and Powers present. Henahan absent. Also in attendance Fire Chief Kubitskey, BOR Member Gemmell, ZBA Chairperson Kathy Dunn, P&Z Chairperson Melchert, Assessor Booth and four electorate.

MEETING NOTICE

**Montmorency-Oscoda Counties
Solid Waste Planning Committee
March 10, 1999
7:00 p.m.
Albert Township Hall
Lewiston, MI**



**PUBLIC NOTICE OF PROPOSED
STATE OF MICHIGAN OIL AND GAS LEASE SALE**



The lands under consideration for leasing are located in the following Counties and Townships:

[illegible]

Surface owners of lands where the State-owned mineral rights are being offered, will be notified prior to the lease sale.

A bid list indicates the legal description of the lands proposed to be offered at the sale, and their classification, may be obtained by contacting the State of Michigan, Department of Natural Resources, Real Estate Division, PO Box 30446, Lansing, Michigan 48900-7948 (telephone 517-373-7953).

Written comments by interested parties relative to the classification of any description must be received by the Real Estate Division of Department of Natural Resources, at the address specified above, NOT LATER THAN MARCH 30, 1988. Any requests for change in classification must specify the reason, and will be considered by the Department prior to selling the lease rights at public auction. With first classification to be set at the sole discretion of the Director of the Department of Natural Resources.

MEETING NOTICE

Montmorency-Oscoda County Solid Waste Planning Committee

PUBLIC HEARING

January 19, 1999

7:00 p.m.

Albert Township Hall

Lewiston, MI

OVER

25

**YEARS OF
REGIONAL
COOPERATION
SINCE 1968**

January 12 1999

Oscoda County Chapter of M.T.A.
P.O.Box 197
Luzerne Mi 48636

N.E.M.C.O.G.
P.O.Box 457
Gaylord Mi 49735

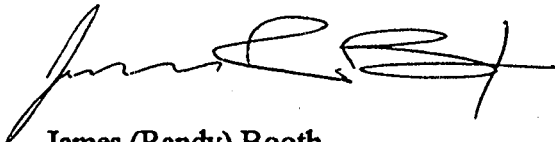
Attn: Montmorency-Oscoda County Solid Waste Planning Committee

Dear Committee Members,

The Oscoda County Chapter of the Michigan Townships Association met on January 11 1999 and we discussed the solid waste plan you are working on. We have one comment, We would like to see you add a 10 cent surcharge to your tipping fees. We would recommend that this surcharge be distributed to all Townships, Cities and Villages contained within the Counties involved in ownership of our landfill. These funds could be used by the member municipalities to help pay for recycling, composting or hazardous waste disposal projects in our communities.

If the funds discussed were distributed to the Municipalities based on their State Equalized Values It could be a fair funding program to help all of us reduce the wastes going to our landfill and could help prolong the landfills life.

Thank You.

A handwritten signature in black ink, appearing to read 'James Booth' with a stylized flourish at the end.

James (Randy) Booth
Chair Oscoda County M.T.A.



JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY*"Better Service for a Better Environment"*

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

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION
PO BOX 30241
LANSING MI 48909-7741

January 27, 1999

Ms. Diane Rekowski
Northeast Michigan Council of Governments
121 East Mitchell
P.O. Box 457
Gaylord, MI 49735

Dear Ms. Rekowski:


Thank you for sending the Department of Environmental Quality (DEQ) a copy of the draft Montmorency and Oscoda County Solid Waste Management Plan dated November 19, 1998. I appreciate the efforts of both the Solid Waste Management Planning Committee (SWMPC) and of yourself as the Designated Planning Agency (DPA) in the development and preparation of the Plan thus far. The specific comments below, outline items which require further explanation or documentation. With these few clarifications, I believe this Plan will be approvable.

- 1). On page 6, under Goal 1, Objective 1C, as a suggestion F could be added to investigate the possibility of providing information via the internet.
- 2). On page 10, under DATA BASE-SOLID WASTE DISPOSAL AREAS, the facility description sheets for all the Type B Transfer Stations need to be completed and inserted in this section.
- 3). On pages 11-13 and pages 29-30 under FACILITY DESCRIPTIONS, all of the Type B Transfer Stations listed on page 10 and page 28 do not have corresponding facility descriptions on pages 11-13 and pages 29-30. Please provide facility descriptions for Type B facilities located in Albert, Montmorency, Clinton, Comins, Greenwood, Big Creek and Elmer Townships.
- 4). On page 17, there was no description of current and projected centers of solid waste generation, including industrial waste for five and ten year periods within the DATA BASE DEMOGRAPHICS.
- 5). On page 19-22, under SOLID WASTE MANAGEMENT ALTERNATIVES, there was no evaluation for each alternative for the following management components: waste reduction, pollution prevention, resource conservation, resource recovery, ultimate disposal area uses, and institutional arrangements. The evaluation criteria are outlined in Rule 711(d) of the Part 115 Administrative Rules. Please evaluate each alternative for the components listed above.

Ms. Diane Rekowski
Page 3
January 27, 1999

I appreciate the effort that you have shown in the development of the Plan and the degree to which the Plan Format has been utilized. If you need further information about our concerns on the Plan, please call me at the number below, or contact me via email at sealockj@state.mi.us and we will arrange a time to discuss these issues in greater detail.

Sincerely,



Jan Sealock
Solid Waste Program Section
Waste Management Division
517-373-4740

cc: Montmorency County Planning File
Oscoda County Planning File

MEMORANDUM

DATE: 11/23/98

TO: Montmorency-Oscoda County Townships and Village of Hillman

FROM: Diane Rekowski

RE: Solid Waste Plan

Enclosed please find a copy of the proposed 1998 update of the Montmorency-Oscoda County Solid Waste Management Plan for public review. The 90 day public comment period began on November 23, 1998 and will end February 22, 1999. A public hearing will be held on January 19, 1999; 7: p.m. at the Albert Township Hall in Lewiston, MI. Any comments on the Plan can be sent to NEMCOG at the above address.

We would appreciate this copy of the Montmorency-Oscoda County Solid Waste Management Plan to be made available at your Township Hall or Village Office for Public Review. Notification will be provided in the Montmorency County Tribune and the Oscoda County Herald as to the Public Hearing date and where the solid waste plans are available for review.

Please do not hesitate to contact me if you should have any questions or concerns.

MEETING NOTICE

**Montmorency-Oscoda Counties
Solid Waste Planning Committee**

November 19, 1998

6:00 p.m.

**Albert Township Hall
Lewiston, MI**

Agenda

- I. Call To Order**
- II. Introductions of Members**
- III. Review of Draft Solid Waste Plan**
- IV. Authorization of Plan to Public Comment**
- V. Public Hearing Date**
- VI. Public Comment**
- VII. Adjournment**

OVER **25** YEARS OF
REGIONAL
COOPERATION
SINCE 1968

April 6, 1998

Patsy Peters, Clerk
Oscoda County
PO Box 399
Mio, MI 48647

Dear Ms. Peters,

This is to notify you that the solid waste planning process has been initiated in Montmorency County and Oscoda County for the purpose of updating the current plans. The first Montmorency - Oscoda County Solid Waste Planning Committee meeting will be held April 30, 1998 at 6:30 p.m. I have enclosed an agenda for your information.

Please post this agenda.

Please feel free to contact me if you should have any comments or questions.

OVER

25

YEARS OF
REGIONAL
COOPERATION
SINCE 1968

April 6, 1998

Connie Marlatt, Administrator
Montmorency Co. Bd. of Comm.
PO Box 415
Atlanta, MI 49709

Dear Ms. Marlatt,

This is to notify you that the solid waste planning process has been initiated in Montmorency County and Oscoda County for the purpose of updating the current plans. The first Montmorency - Oscoda County Solid Waste Planning Committee meeting will be held April 30, 1998 at 6:30 p.m. I have enclosed an agenda for your information.

Please post this agenda.

Please feel free to contact me if you should have any comments or questions.

April 6, 1998

Sandy Cunningham, Secty.
Montmorency County
PO Box 415
Atlanta MI 49709

Dear Ms. Cunningham,

This is to notify you that the solid waste planning process has been initiated in Montmorency County and Oscoda County for the purpose of updating the current plans. The first Montmorency - Oscoda County Solid Waste Planning Committee meeting will be held April 30, 1998 at 6:30 p.m. I have enclosed an agenda for your information.

Please post this agenda.

Please feel free to contact me if you should have any comments or questions.

April 6, 1998

TO: Seth Phillips

FROM: Diane Rekowski, Director

This is to notify you that the solid waste planning process has been initiated in Montmorency County and Oscoda County for the purpose of updating the current plans. The first Montmorency - Oscoda County Solid Waste Planning Committee meeting will be held April 30, 1998 at 6:30 p.m. I have enclosed an agenda for your information.

Please feel free to contact me if you should have any comments or questions.

April 6, 1998

TO: Tom Polasek

FROM: Diane Rekowski, Director

This is to notify you that the solid waste planning process has been initiated in Montmorency County and Oscoda County for the purpose of updating the current plans. The first Montmorency - Oscoda County Solid Waste Planning Committee meeting will be held April 30, 1998 at 6:30 p.m. I have enclosed an agenda for your information.

Please feel free to contact me if you should have any comments or questions.

April 6, 1998

Dave Hornbacker
Thunder Bay Sanitation
21030 County Road 451
Hillman, MI 49746

Dear Mr. Hornbacker

The first meeting of the Montmorency - Oscoda County Solid Waste Planning Committee will be held on Thursday, April 30, 1998 at 6:30 p.m., Albert Township Hall in Lewiston.. I have enclosed a copy of the Montmorency County Solid Waste Management Plan, and the agenda for the first meeting, for your review.

I look forward to working with you on the committee and please do not hesitate to contact me if you should have any comments or questions.

Sincerely,

Diane Rekowski
Director

April 6, 1998

Dale Neff
2099 E. Kauffman Road
Fairview, MI 48621

Dear Mr. Neff,

The first meeting of the Montmorency - Oscoda County Solid Waste Planning Committee will be held on Thursday, April 30, 1998 at 6:30 p.m., Albert Township Hall in Lewiston.. I have enclosed a copy of the Oscoda County Solid Waste Management Plan, and the agenda for the first meeting, for your review.

I look forward to working with you on the committee and please do not hesitate to contact me if you should have any comments or questions.

Sincerely,

Diane Rekowski
Director

April 6, 1998

Kenneth Troyer, Supervisor
Clinton Township
2311 E. Steiner Road
Comins, MI 48619

Dear Mr. Troyer,

The first meeting of the Montmorency - Oscoda County Solid Waste Planning Committee will be held on Thursday, April 30, 1998 at 6:30 p.m., Albert Township Hall in Lewiston.. I have enclosed a copy of the Oscoda County Solid Waste Management Plan, and the agenda for the first meeting, for your review.

I look forward to working with you on the committee and please do not hesitate to contact me if you should have any comments or questions.

Sincerely,

Diane Rekowski
Director

April 6, 1998

Terry DeBlaay
Hillman Power Company
750 Progress Street
Hillman, MI 49746

Dear Mr. DeBlaay,

The first meeting of the Montmorency - Oscoda County Solid Waste Planning Committee will be held on Thursday, April 30, 1998 at 6:30 p.m., Albert Township Hall in Lewiston.. I have enclosed a copy of the Montmorency County Solid Waste Management Plan, and the agenda for the first meeting, for your review.

I look forward to working with you on the committee and please do not hesitate to contact me if you should have any comments or questions.

Sincerely,

Diane Rekowski
Director

April 6, 1998

Dave Herberholz
City Envir. Services, Inc.
PO Box 3215
Saginaw, MI 48605

Dear Mr. Herberholz,

The first meeting of the Montmorency - Oscoda County Solid Waste Planning Committee will be held on Thursday, April 30, 1998 at 6:30 p.m., Albert Township Hall in Lewiston.. I have enclosed a copy of the Montmorency County & Oscoda County Solid Waste Management Plans, and the agenda for the first meeting, for your review.

I look forward to working with you on the committee and please do not hesitate to contact me if you should have any comments or questions.

Sincerely,

Diane Rekowski
Director

April 6, 1998

Dave Hornbacker
Thunder Bay Sanitation
21030 County Road 451
Hillman, MI 49746

Dear Mr. Hornbacker,

The first meeting of the Montmorency - Oscoda County Solid Waste Planning Committee will be held on Thursday, April 30, 1998 at 6:30 p.m., Albert Township Hall in Lewiston.. I have enclosed a copy of the Montmorency County & Oscoda County Solid Waste Management Plans, and the agenda for the first meeting, for your review.

I look forward to working with you on the committee and please do not hesitate to contact me if you should have any comments or questions.

Sincerely,

Diane Rekowski
Director

April 6, 1998

Jim Zavislak
Mont. County Recyclers
16350 N. County Road 459
Hillman, MI 49746

Dear Mr. Zavislak,

The first meeting of the Montmorency - Oscoda County Solid Waste Planning Committee will be held on Thursday, April 30, 1998 at 6:30 p.m., Albert Township Hall in Lewiston.. I have enclosed a copy of the Montmorency County Solid Waste Management Plan, and the agenda for the first meeting, for your review.

I look forward to working with you on the committee and please do not hesitate to contact me if you should have any comments or questions.

Sincerely,

Diane Rekowski
Director

April 6, 1998

Tom Young
PO Box 186
Atlanta, MI 49709

Dear Mr. Young,

The first meeting of the Montmorency - Oscoda County Solid Waste Planning Committee will be held on Thursday, April 30, 1998 at 6:30 p.m., Albert Township Hall in Lewiston.. I have enclosed a copy of the Montmorency County Solid Waste Management Plan, and the agenda for the first meeting, for your review.

I look forward to working with you on the committee and please do not hesitate to contact me if you should have any comments or questions.

Sincerely,

Diane Rekowski
Director

April 6, 1998

Richard Anderson
Supervisor, Albert Twp.
PO Box 153
Lewiston, MI 49756

Dear Mr. Anderson,

The first meeting of the Montmorency - Oscoda County Solid Waste Planning Committee will be held on Thursday, April 30, 1998 at 6:30 p.m., Albert Township Hall in Lewiston.. I have enclosed a copy of the Montmorency County Solid Waste Management Plan, and the agenda for the first meeting, for your review.

I look forward to working with you on the committee and please do not hesitate to contact me if you should have any comments or questions.

Sincerely,

Diane Rekowski
Director

April 6, 1998

Kelly Wangbichler
Oscoda County Recyclers
PO Box 294
Mio, MI 48647

Dear Ms. Wangbichler,

The first meeting of the Montmorency - Oscoda County Solid Waste Planning Committee will be held on Thursday, April 30, 1998 at 6:30 p.m., Albert Township Hall in Lewiston.. I have enclosed a copy of the Oscoda County Solid Waste Management Plan, and the agenda for the first meeting, for your review.

I look forward to working with you on the committee and please do not hesitate to contact me if you should have any comments or questions.

Sincerely,

Diane Rekowski
Director

April 6, 1998

Gerald Steinke
Thunder Bay Sanitation
PO Box 115
Hillman, MI 49746

Dear Mr. Steinke,

The first meeting of the Montmorency - Oscoda County Solid Waste Planning Committee will be held on Thursday, April 30, 1998 at 6:30 p.m., Albert Township Hall in Lewiston.. I have enclosed a copy of the Montmorency County & Oscoda County Solid Waste Management Plans, and the agenda for the first meeting, for your review.

I look forward to working with you on the committee and please do not hesitate to contact me if you should have any comments or questions.

Sincerely,

Diane Rekowski
Director

April 6, 1998

Harold Wellman
Whitehouse Disposal
653 Jackpine Loop
Mio, MI 48647

Dear Mr. Wellman,

The first meeting of the Montmorency - Oscoda County Solid Waste Planning Committee will be held on Thursday, April 30, 1998 at 6:30 p.m., Albert Township Hall in Lewiston.. I have enclosed a copy of the Montmorency County & Oscoda County Solid Waste Management Plans, and the agenda for the first meeting, for your review.

I look forward to working with you on the committee and please do not hesitate to contact me if you should have any comments or questions.

Sincerely,

Diane Rekowski
Director

April 6, 1998

Roger Frye
22955 Lake Avalon Road
Hillman, MI 49746

Dear Roger,

The first meeting of the Montmorency - Oscoda County Solid Waste Planning Committee will be held on Thursday, April 30, 1998 at 6:30 p.m., Albert Township Hall in Lewiston.. I have enclosed a copy of the Montmorency County Solid Waste Management Plan, and the agenda for the first meeting, for your review.

I look forward to working with you on the committee and please do not hesitate to contact me if you should have any comments or questions.

Sincerely,

Diane Rekowski
Director

April 6, 1998

Dennis Kauffman
1246 N. Mt. Tom Road
Mio, MI 48647

Dear Mr. Kauffman,

The first meeting of the Montmorency - Oscoda County Solid Waste Planning Committee will be held on Thursday, April 30, 1998 at 6:30 p.m., Albert Township Hall in Lewiston.. I have enclosed a copy of the Oscoda County Solid Waste Management Plan, and the agenda for the first meeting, for your review.

I look forward to working with you on the committee and please do not hesitate to contact me if you should have any comments or questions.

Sincerely,

Diane Rekowski
Director

April 6, 1998

Bernard Kann
22278 Cedar Run Road
Mio, MI 48647

Dear Mr. Kann,

The first meeting of the Montmorency - Oscoda County Solid Waste Planning Committee will be held on Thursday, April 30, 1998 at 6:30 p.m., Albert Township Hall in Lewiston.. I have enclosed a copy of the Oscoda County Solid Waste Management Plan, and the agenda for the first meeting, for your review.

I look forward to working with you on the committee and please do not hesitate to contact me if you should have any comments or questions.

Sincerely,

Diane Rekowski
Director

April 6, 1998

Richard Hermanson, Pres.
NEMCOG
PO Box 185
Lewiston, MI 49756

Dear Dick,

The first meeting of the Montmorency - Oscoda County Solid Waste Planning Committee will be held on Thursday, April 30, 1998 at 6:30 p.m., Albert Township Hall in Lewiston.. I have enclosed a copy of the Montmorency County Solid Waste Management Plan, and the agenda for the first meeting, for your review.

I look forward to working with you on the committee and please do not hesitate to contact me if you should have any comments or questions.

Sincerely,

Diane Rekowski
Director

PAGE 1 OF 3
MONT/OSCODA SW
Committee 4/98

Tammy Bates, Secretary
Alpena County Board
720 W. Chisholm
Alpena MI 49707

Sandy Cunningham, Secty.
Montmorency County
PO Box 415
Atlanta MI 49709

Patsy Peters, Clerk
Oscoda County
PO Box 399
Mio MI 48647

M. Susan Torsch, Clerk
Village of Long Rapids
5473 M-65 N.
Lachine MI 49753

Donna Hammerquist, Clerk
City of Alpena
208 N. 1st
Alpena MI 49707

Gayle Simmons, Clerk
Alcona County
PO Box 308
Harrisville MI 48740

Joanne Spray, Clerk
Cheboygan County
PO Box 70
Cheboygan MI 49721

David Post, Manager
Village of Hillman
PO Box 96
Hillman MI 49746

Sandra Moore, Clerk
Crawford County
200 W. Michigan
Grayling MI 49738

Evelyn Pratt, Clerk
Otsego County
225 W. Main
Gaylord MI 49735

Susan Rhode, Clerk
Presque Isle County
PO Box 110
Rogers City MI 49779

Lambert Chard, Co. Cord.
Otsego County
225 W. Main
Gaylord MI 49735

Norm Brecheisen, Mayor
City of Gaylord
225 W. Main
Gaylord, MI 49735

Jerry Morford, Mgr.
City of Grayling
103 s. James St.
Grayling MI 49738

Ed Gall, Mayor
City of Harrisville
PO Box 372
Harrisville, MI 48740

Scott McNeil, Manager
City of Cheboygan
202 Backus, PO Box 39
Cheboygan MI 49721

Paul Stankewitz, Manager
City of Onaway
PO Box 761
Onaway MI 49765

Jeff Lawson, Manager
Village of Mackinaw City
102 S. Huron
Mackinaw City, MI 49701

Elizabeth Haus, Pres.
Village of Vanderbilt
606 Garfield
Vanderbilt, MI 49795

Steve Fitzner, President
Village of Wolverine
12584 Water St.
Wolverine MI 49799

Erwin Lewandowski, Pres.
Village of Posen
11181 Michigan Ave.
Posen MI 49776

Art Somers, President
Village of Lincoln
1280 Sleeper Dr.
Lincoln MI 48799

John Rose, President
Village of Millersburg
PO Box 202
Millersburg MI 49759

Mike Hunt, Commissioner
Oscoda County
HCR1 Ruth Road 246E-2
Lewiston, MI 49756

John Ozoga
DEQ
1955 N. I-75 Business Loop
Grayling MI 49738

Seth Phillips
Waste Mgt. Division
PO Box 30241
Lansing MI 48909-7973

Connie Marlatt, Administrator
Montmorency Co. Bd. of Comm.
PO Box 415
Atlanta, MI 497358

James Booth, Super.
Big Creek Twp
2195 Deeter Rd.
Luzerne, MI 48635

Dennis Hunter, Clerk
Albert Township
PO Box 153
Lewiston, MI 49756

Ann Seymour, Clerk
Township of Avery
8809 Co. Rd. 487
Atlanta, MI 49709

Edwin Comber, Clerk
Township of Briley
9880 Co. Rd. 489
Atlanta, MI 49709

Pamela Achatz, Clerk
Township of Hillman
PO Box 25
Hillman, MI 49746

Robert Fairbanks, Manager
City of Rogers City
193 E. Michigan Ave.
Rogers City MI 49779

Elsie Bixel, Clerk
Township of Loud
17300 Campbell Road
Comins, MI 48619

Connie Brandt, Clerk
Twp of Montmorency
24336 County Rd 452
Hillman, MI 49746

Mary Banks, Clerk
Township of Rust
8210 Klein Road
Hillman, MI 49746

Cheryl Klein, Clerk
Twp. of Vienna
8556 Mathews
Atlanta, MI 49709

Marla Green, Clerk
Township of Clinton
4516 N. Abbe Road
Comins, MI 48619

Gary Wyckoff, Super.
Mentor Township
216 Tenth Street
Mio, MI 48647

Jim Johnson
MDEQ/Waste Mgt. Division
PO Box 30241
Lansing, MI 48909

Jean Powers, Clerk
Greenwood Township
Co. Road 489
Lewiston, MI 49756

Martin Galbraith, Super.
Elmer Township
863 Galbraith Road
Mio, MI 48647

Tavia Chicha, Super.
Comins Township
858 N. Rogers Road
Fairview, MI 48621

Irene Granger, Clerk
Emmet County
200 Division
Petoskey, MI 49770

Jane Brannon, Clerk
Charlevoix County
301 State Street
Charlevoix, MI 49720

Virginia Watson, Clerk
Grand Traverse County
400 Boardman Ave.
Traverse City, MI 49684

Dave Hornbacker
Thunder Bay Sanitation
21030 County Road 451
Hillman, MI 49746

Dave Herberholz
City Envir. Services, Inc.
1311 N. Nigara
Saginaw, MI 48605

Harold Wellman
Whitehouse Disposal
653 Jackpine Loop
Mio, MI 48647

Gerald Steinke
Thunder Bay Sanitation
PO Box 115
Hillman MI 49746

Kelly Wangbichler
Oscoda County Recyclers
PO Box 294
Mio, MI 48647

Jim Zavislak
Mont. County Recyclers
16350 N. County Road 459
Hillman, MI 49746

Kenneth Troyer, Supervisor
Clinton Township
2311 E. Steiner Road
Comins, MI 48619

Roger Frye
22955 Lake Avalon Road
Hillman, MI 49746

Dennis Kauffman
1246 N. Mt. Tom Road
Mio, MI 48647

Dale Neff
2099 E. Kauffman Road
Fairview, MI 48621

Bernard Kann
22278 Cedar Run Road
Mio, MI 48647

Tom Young
PO Box 186
Atlanta, MI 49709

Terry DeBlaay
Hillman Power Company
750 Progress Street
Hillman, MI 49746

Richard Hermanson, Pres.
NEMCOG
PO Box 185
Lewiston, MI 49756

COMMITTEE MEMBERS
PAGE 3 OF 3

Richard Anderson
Supervisor, Albert Twp.
PO Box 153
Lewiston, MI 49756

ATTACHMENT H

Documentation of Acceptance of Responsibilities

Letters accepting responsibility.

**MICHIGAN STATE
UNIVERSITY
EXTENSION**

Courthouse Annex
P.O. Box 69
Mio, MI 48647
517-826-1160

Oscoda County

March 11, 1999

Diane Rekowski
NEMCOG
P.O. Box 457
Gaylord, Michigan 49735

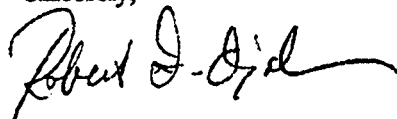
Dear Diane:

I have reviewed the role for Oscoda County MSU Extension outlined in the proposed Montmorency/Oscoda Counties Solid Waste Plan.

We will cooperate with the local units and agencies to provide any information we can as referred to in the plan. We do have hand-out materials on recycling and composting that we make available to the public on an on-going basis.

Please contact me if you have questions or need further information.

Sincerely,



Robert F. Ojala

Robert F. Ojala
County
Extension Director

Rebecca Counsellor
Extension Home
Economist

Shirley Alien
4-H Program
Assistant

RFO:pae

Michigan State University Extension
programs and materials are open to
all without regard to race, color,
national origin, sex, handicap, age
or religion.

Michigan State University, U.S.
Department of Agriculture and
counties cooperating.
SU is an affirmative-action equal
opportunity institution.

**MICHIGAN STATE
UNIVERSITY
EXTENSION**

**MONTMORENCY
COUNTY**

Cooperative Extension System
Montmorency County Board of Commissioners, M.S.U., U.S.D.A.
P.O. Box 789, Atlanta, MI 49709 - (517) 785-4177 - FAX (517) 785-4183

March 12, 1999

Diane Rekowski
NEMCOG
P.O. Box 457
Gaylord, MI 49735

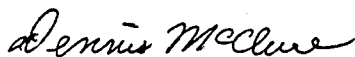
Dear Diane:

Congratulations on the very well written Montmorency-Oscoda Counties Proposed Solid Waste Plan. It appears to be a very inclusive document.

The Montmorency and MSU Extension office will certainly do whatever we can to assist in this project. I agree with your assessment of Extension's educational roll, particularly in recycling, composting, and resource management. We do have materials in these areas and there are probably materials that we are not aware of at this time.

Please contact me if you have questions or need further information.

Sincerely,



Dennis McClure
County Extension Director

DM/th

Michigan State University Extension programs and materials are open to all without regard to race, color, national origin, sex, handicap, age or religion. Michigan State University, U.S.D.A. and counties cooperating.
MSU is an affirmative-action equal opportunity institution.



P.O. Box 751 • Alpena, MI 49707

TO: WHOM IT MAY CONCERN

March 8, 1999

RE: RESOURCE CONSERVATION EFFORTS

In a follow up to the writing of the Montmorency/Oscoda Solid Waste Management Plan, we are willing to work on the following goals.

1. Work on management programs within the watershed to educate the general public and businesses the importance of ground water protection. This will involve the education of proper disposal of such items as oils, household hazardous waste.
2. Work on land use issues that will relate to private and business on proper disposal of such items as batteries, tires, pesticides, insecticides, and any other items that could relate to ground and surface water contamination.
3. Work to find funding to assist the population within the Thunder Bay River Watershed Council for educational brochures, and implementation of working programs.
4. We will work with the Northeast Michigan Recycling Alliance to help them meet their objectives.

We are not limited to the above goals, and we work to maintain a healthy environment for Northeast Michigan.

Respectively Submitted,

A handwritten signature in cursive script that reads "James A. Zavislak".

James A. Zavislak, Chairman



Friends of Northeast Michigan Ecosystems

16350 North County Road 459 Hillman, Michigan 49746 (517)742-3320



TO: WHOM IT MAY CONCERN

MARCH 8, 1999

RE: LETTER OF COMMITMENT FOR RESOURCE CONSERVATION

In reference to the Montmorency/ Oscoda Solid Waste Plan the Friends of Northeast Michigan Ecosystems will work to provide the following goals to meet the objectives outlined in the proposed plan.

1. We will work to obtain funding to educate our youth in the proper methods of recycling, and protection of our soils, ground and surface waters. This will not be only limited to youth but citizens at large.
2. We will work with the area recycling groups already in place to built a better and more advance recycling initiative.
3. Work with Michigan United Conservation Clubs to create better law enforcement practices to protect our public lands. This relates to dumping of white goods that seemingly are costly for the general public to dispose of. This to will be worked on by proposing Michigan Department of Natural Resources, Forestry Division allot some funds form the sale of timber to help with Forest Cleanups.
4. Work with local areas of government to obtain a funding program for removal of household hazardous wastes from the everyday garbage mainstream.

Friends of Northeast Michigan Ecosystems is committed to making and keeping Northeast Michigan a quality place to live.

Yours in Conservation,


James A. Zavislak, President

Montmorency Organization of Recyclers



TO: WHOM IT MAY CONCERN

March 8, 1999

RE: ORGANIZATIONAL SUPPORT FOR MONTMORENCY/OSCODA
LANDFILL SOLID WASTE PLAN

The Montmorency Organization of Recyclers will be able to show support in this Solid Waste Plan as proposed by doing some of the criteria mentioned below. These will strengthen the Resource Conservation efforts of the plan.

1. Work to educate young and old to recycle in a responsible way so as to make the mainstream flow of recyclables an everyday way of life.
2. Support the Multi County Recycling Alliance so as to protect and preserve our Natural Resources over a large area of Northeast Michigan.
3. To try and financially help the recycling initiative for a better Northeast Michigan.
4. Work with area schools to teach recycling and the betterment of its alternatives.
5. Work on programs to help bring household hazardous wastes programs to Montmorency County.
6. Work with other agencies to promote recycling as a way of everyday life.

These would be just some of the ways we can work within the scopes of the proposed solid waste plan. Montmorency Organization of Recyclers was started in 1992 and has done an effective job for the initiative to bring recycling into a reality in the area of Montmorency County. We average over 100 tons a year of combined recycle products.

Sincerely,

James A. Zavislak, President

DISTRICT HEALTH DEPARTMENT NO. 2

COUNTIES
OF

ALCONA
IOSCO
OGEMAW
OSCODA

MAIN OFFICE

630 Progress
West Branch, MI 48661
Tel: (517) 345-5020
Fax: (517) 345-7999

BRANCH OFFICES

Alcona County
Courthouse Annex
311 Lake St., P.O. Box 218
Harrisville, MI 48740
Tel: (517) 724-6757
Fax: (517) 724-9975

Iosco County
Iosco County Building Annex
420 W. Lake Street, P.O. Box 98
Tawas City, MI 48764
Tel: (517) 362-6183
Fax: (517) 362-7181

Oscoda County
393 S. Mt. Tom Road
Mio, MI 48647
Tel: (517) 826-3970
Fax: (517) 826-5386

March 24, 1999

Northeast Michigan Council of Governments
Diane Rekowski
121 E. Mitchell
PO Box 457
Gaylord, MI 49735

Subject: Montmorency-Oscoda County Solid Waste Plan

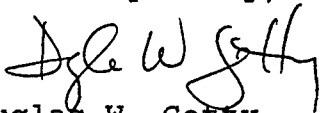
Dear Ms. Rekowski:

District Health Department #2 (DHD #2) has reviewed the solid Waste Plan information you sent relative to this agency's participation in such. In general, the Plan outlines DHD #2's participation in the education portion of the resource conservation efforts; also in the development, implementation and educational aspects of a local household hazardous waste program.

Please let this letter serve as notice of this agency's intent to support the solid waste plan in the manner described in the plan and as outlined above.

We look forward to working with you and those involved in this vital conservation effort as we further endeavor to protect the health and the environment of the citizens we serve.

Yours Very Truly,



Douglas W. Getty
Environmental Health Director

dwg:jrh

cc: Dianna Schafer, MPA, Health Officer