

STATE OF MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

LANSING



April 5, 2024

VIA EMAIL

Robert Showers, Chairperson Clinton County Board of Commissioners 100 East State Street St. Johns, Michigan 48879

Dear Robert Showers:

The locally approved amendment to the Clinton County Solid Waste Management Plan (Plan Amendment) received by the Department of Environment, Great Lakes, and Energy (EGLE), Materials Management Division (MMD), on November 27, 2023, is hereby approved.

The amendment makes the following changes:

- Adds an additional county to the Export Authorization Table. Specifically, Branch County is added for primary disposal.
- Updates the Facility Description for the Granger Grand River Landfill by adding the following sentence to the description, "The plan also authorizes a potential use of the 60 acres on the Granger Grand River Avenue Landfill site that is presently closed, so that the total area sited for use at the Granger Grand River Landfill is 180.9 acres."

EGLE would like to thank Clinton County for its efforts in addressing its materials management issues. If you have any question, please contract Christina Miller, Materials Management Planning Specialist, Sustainable Materials Management Unit, Solid Waste Section, MMD, at 517-614-7426; MillerC1@Michigan.gov; or EGLE, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,

Elizabeth M. Browne, Director Materials Management Division

Olizabeth M. Browne

517-242-2746

cc: Senator Sam Singh

Representative Graham Filler

Kathrine Neese, Waste Management Coordinator, Clinton County

Phillip D. Roos, Director, EGLE

Aaron B. Keatley, Chief Deputy Director, EGLE

Travis Boeskool, Deputy Director, EGLE

James Clift, Deputy Director, EGLE

Tracy Kecskemeti, EGLE

Rhonda S. Oyer, EGLE

Phil Roycraft, EGLE

Gary Schwerin, EGLE

Christina Miller, EGLE/Clinton County File



Clinton County Department of Waste Management

100 E. State Street, Ste. 1500, St. Johns, MI 48879 Phone: 989-224-5186, Fax: 989-224-5102

November 27, 2023

Michigan Department of Environment, Great Lakes, and Energy Materials Management Division Constitution Hall, 4 South Attn: Christina Miller P.O. Box 30241 Lansing, Michigan 48909-7741

Dear Ms. Miller,

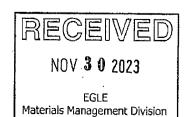
As you are aware, Clinton County has been asked to consider amending the current Solid Waste Management Plan to include 1) one additional county and 2) reinstate a closed landfill. Here is the proposed amendment language:

[In Section 5.5, entitled "IMPORT AUTHORIZATION," to the table entitled "Import Volume Authorizations of Solid Waste" on page 43, the following counties are added as rows

IMPORTING	EXPORTING	FACILITY	AUTHORIZED	AUTHORIZED	AUTHORIZED
COUNTY	COUNTY	NAME	QUANTITY/DAILY	QUANTITY/ANNUAL	CONDITIONS
Clinton	Branch	ALL	unlimited*	unlimited*	P*

Authorization indicated by P= Primary Disposal; C= Contingency Disposal; and *=Other conditions exist.

*ANNUAL CAP: The sum of all waste disposed of in facilities within Clinton County, which were owned by Granger at the time of the writing of this Plan, may not exceed 2,500,000 cubic yards per year. See Section 6.8 of this Plan document.



In all other respects the remaining content of this table and of Section 5.5 as contained in the 2000 Plan is ratified, preserved, and confirmed]

* * *

[In Section 5.6, entitled "EXPORT AUTHORIZATION," to the table entitled "Export Volume Authorizations of Solid Waste" on page 45, the following counties are added as rows

EXPORTING	IMPORTING	FACILITY	AUTHORIZED	AUTHORIZED	AUTHORIZED
COUNTY	COUNTY	NAME	QUANTITY/DAILY	QUANTITY/ANNUAL	CONDITIONS
Clinton	Branch	ALL	unlimited*	unlimited*	p*

Authorization indicated by P= Primary Disposal; C= Contingency Disposal; and *=Other conditions exist.

In all other respects the remaining content of this table and of Section 5.6 as contained in the 2000 Plan is ratified, preserved, and confirmed

[In Section 5.8, entitled Facility Descriptions on page 48 (a-1), the following sentence is added:

"The Plan also authorizes a potential use of the 60 acres on the Granger Grand River Avenue Landfill site that are presently closed, so that the total area sited for use at the Granger Grand River Avenue Landfill is 180.9 acres."

In all other respects the remaining content of Section 5.8 as contained in the 2000 Plan is ratified, preserved, and confirmed].

Enclosed you will find all of the required materials for your review. Please feel free to contact our office if you need additional information.

Sincerely,

Kate Neese

Waste Management Coordinator

Clinton County Department of Waste Management

Enclosures:

- Signed and approved minutes and/or resolution indicating approval of the amendment by the Solid Waste Management Planning Committee. (1 – approval prior to the 90-day public comment period – April 11, 2023, and 2 – approval before the Board of Commissioners formal action August 8, 2023 – these minutes will be reviewed, approved, and signed at the next committee meeting when the committee meets next year.to review the proposed site plan).
- Signed and approved minutes and/or resolution indicating approval of the amendment by the County Board of Commissioners.
- A copy of the notice of public hearing that includes the date of publication. (Notice must be a minimum of 30 days prior to the public hearing date.)
- Notes taken at the public hearing, including all written and oral comments on the Plan.
- Signed resolution or approval of the amendment from at least 67 percent of all municipalities.
- A list of all municipalities within the County all of which received the information through regular mail dated September 1, 2023, and email on September 8, 2023 (and received subsequent follow up phone calls and emails).
- List of the Solid Waste Management Planning Committee members and their areas or representation.

CLINTON COUNTY BOARD OF COMMISSIONERS

Chairperson
Robert Showers
Vice-Chairperson
Kenneth B. Mitchell
Members
Valerie Vail-Shirey
David W. Pohl
Bruce DeLong
John Andrews
Dwight Washington

COURTHOUSE 100 E. STATE STREET ST. JOHNS, MICHIGAN 48879-1571 989-224-5120



Administrator/Controller
John F. Fuentes
Clerk of the Board
Debra A. Sutherland

RESOLUTION 2023 - 16

At a regular meeting of the Board of Commissioners of the County of Clinton, Michigan, held at the County Building in St. Johns, Michigan on the 29th day of August, 2023, at nine o'clock a.m. local time.

PRESENT: Commissioners: Val Vail-Shirey, David Pohl, Bruce DeLong, Kenneth B. Mitchell, Robert Showers, John Andrews and Dwight Washington

ABSENT: None

It was moved by Commissioner DeLong and supported by Commissioner Washington that the following resolution be adopted.

WHEREAS, Part 115 of Michigan's Solid Waste Management Act (MCL §324.11501 *et seq.*)("Part 115") requires Clinton County to promulgate and periodically amend a Solid Waste Management Plan ("Plan");

WHEREAS, Clinton County has adopted such a Plan;

WHEREAS, the Granger Landfill has requested two amendments to Plan, one involving import authorization from Branch County to export solid waste to Clinton County for disposal and the other to increase the area sited for use at the Granger Grand River Avenue Landfill to include the potential use of the closed area of that facility which is 60 acres, thereby increasing the are sited for use of the total Granger Grand River Avenue Landfill from 120.9 acres to 180.9 acres;

WHEREAS, the Solid Waste Management Planning Committee has recommended that the Plan be amended to accommodate each of Granger's proposed amendments;

WHEREAS, the Clinton County Board of Commissioners determines that approval of the Plan amendments incorporated in this Resolution is in the best interests of the County's citizens;

NOW, THEREFORE, BE IT RESOLVED that the following amendments to the Clinton County Solid Waste Management Plan of 2000 are hereby approved:

* * *

[In Section 5.5, entitled "IMPORT AUTHORIZATION," to the table entitled "Import Volume Authorizations of Solid Waste" on page 43, the following county, quantities and conditions are added as a row:

IMPORTING	EXPORTING	FACILITY	AUTHORIZED	AUTHORIZED	AUTHORIZED
COUNTY	COUNTY	NAME	QUANTITY/DAILY	QUANTITY/ANNUAL	CONDITIONS
Clinton	Branch	ALL	unlimited*	unlimited*	P*

Authorization indicated by P= Primary Disposal; C= Contingency Disposal; and *=Other conditions exist.

*ANNUAL CAP: The sum of all waste disposed of in facilities within Clinton County, which were owned by Granger at the time of the writing of this Plan, may not exceed 2,500,000 cubic yards per year. See Section 6.8 of this Plan document.

In all other respects the remaining content of this table and of Section 5.5 as contained in the 2000 Plan is ratified, preserved and confirmed];

* * *

[In Section 5.6, entitled "EXPORT AUTHORIZATION," to the table entitled "Export Volume Authorizations of Solid Waste" on page 45, the following counties are added as rows

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COUNTY	COUNTY	NAME	QUANTITY/DAILY	QUANTITY/ANNUAL	CONDITIONS .
Clinton	Branch	ALL	unlimited*	unlimited*	P*

Authorization indicated by P=Primary Disposal; C=Contingency Disposal; and *=Other conditions exist.

In all other respects the remaining content of this table and of Section 5.6 as contained in the 2000 Plan is ratified, preserved, and confirmed]

* * *

[In Section 5.8, entitled Facility Descriptions on page 48 (a-1), the following sentence is added:

"The Plan also authorizes a potential use of the 60 acres on the Granger Grand River Avenue Landfill site that are presently closed, so that the total area sited for use at the Granger Grand River Avenue Landfill is 180.9 acres."

In all other respects the remaining content of Section 5.8 as contained in the 2000 Plan is ratified, preserved and confirmed];

BE IT FURTHER RESOLVED that the Clinton County Solid Waste Coordinator and Clinton County Clerks shall circulate this Resolution to the municipalities and State Department of Environment, Great Lakes, and Energy for their approval under Part 115;

BE IT FURTHER RESOLVED that this Resolution shall supersede, modify, augment, or replace any previous inconsistent resolution, motion or Board action on these subjects.

YEAS:

Commissioners: Valerie Vail-Shirey, Bruce DeLong, David Pohl, Kenneth Mitchell,

John Andrews, Dwight Washington and Robert Showers

NAYS:

None

ABSTENTIONS:

None

RESOLUTION ADOPTED.

STATE OF MICHIGAN COUNTY OF CLINTON

I, DEBRA A. SUTHERLAND, Clerk of the County of Clinton do hereby certify that the foregoing resolution was duly adopted by the Clinton County Board of Commissioners at the regular meeting held August 29, 2023 and is on file in the records of this office.

Albra a. Sutherland

Neese, Katherine

From:

Neese, Katherine

Sent:

Friday, April 14, 2023 10:34 AM

Subject:

PUBLIC COMMENT AND NOTICE OF PUBLIC HEARING

Attachments:

SWMP Amendment Resolution 4.11.23.pdf

Friday, April 14, 2023

For Immediate Release:

Clinton County Department of Waste Management is offering the attached resolution for public comment through Friday, July 14, 2023. Granger has requested two amendments to the Clinton County Solid Waste Management Plan (SWMP). The requests include 1) one additional county to the SWMP for waste import and export and 2) amend the total area sited for use at the Grand River Avenue landfill located at 8550 West Grand River Highway, Grand Ledge, Michigan.

Copies of this resolution will be made available on the Clinton County Department of Waste Management website, through the Clinton County Department of Waste Management office, through the Clinton County Clerk's office and is being made available to all local municipalities for review and comment. Comments should be submitted to Clinton County Department of Waste Management through email recycle@clinton-county.org or written mail 100 East State Street, Suite 1500, St Johns, MI 48879 BEFORE Friday July 14th at 5:00pm.

A public hearing to review all public comments has been set for Tuesday, July 25th at 6:00pm to be held at the Clinton County Courthouse in the Board of Commissioners Room.

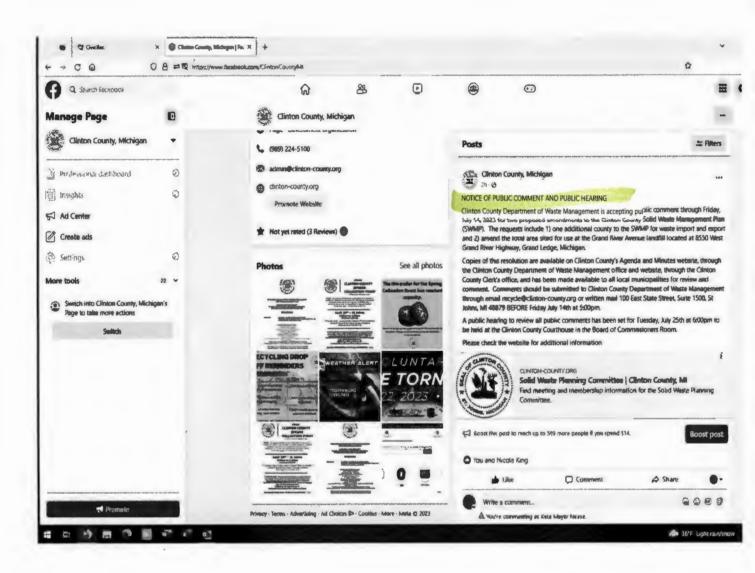
Please contact the Clinton County Department of Waste Management if you have any questions or comments.

Kate Neese – Recycling & Waste Management Coordinator Clinton County Department of Waste Management 100 E. State Street *Suite 1500 St Johns, MI 48879 (989) 224-5186 Fax (989) 224-5102 recycle@clinton-county.org

Like us on Facebook! https://www.facebook.com/ClintonCountyMI

Do you have something that needs to be recycled? Check out our Waste Wizard www.clinton-county.org/WasteWizard

This message has been prepared on resources owned by Clinton County, MI. It is subject to the Internet and Online Services Use Policy of Clinton County.



4/17/23 e9:00am

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example

ngs you'll ever Cedar River at

nd with an 8-0 ished 36-7 and ships in hand, tory.

were farewells

ne state tournairls didn't real-

y — the greatg Community

I team won a fore. The senic school year irships awardin May. Is for the first game is so fast. There is no margin for error. The strategy and the execution have to be near-perfection.

As winning teams advance through the season — especially through the tournament — the margins for error get tighter and tighter.

The Dream Season for Laingsburg ended opposite Whiteford hurler Unity Nelson, who was undefeated at 21-0 entering the contest. The Wolfpack managed two hits — a double from Ashley Bila and a single from Addysin Buchin — but that doesn't really paint the bigger picture. Bila, the Wolves' spark plug all season, was at third base with one out in the first inning but the offense couldn't punch her home. LHS threatened in early innings — and had they been able to push a couple of runs across, this could have been a much different outcome.

You could feel it.

Buchin took the pitching loss, after the Bobcats started to time her up as they moved through their batting order three and four times. She held strong, though, and explained later how much this season — this team — meant to her. The Wolves focus following the game was all on next year, to use the loss as a stepping stone.

"We're the last team in the Lansing area to play here," said iconic coach Jeff Cheadle, who sits at a remarkable 877 career wins entering the 2024 season. "We ended the last couple of seasons in the Regional, so we've moved past that hurdle. Now the goal is to get to the State Final next year."

The Wolfpack started four freshmen, lose just three seniors, and have Buchin back in the circle as a junior in 2024. This program is ready to reach new heights.

You can feel it.



PUBLIC HEARING

The Clinton County
Department of Waste
Management will hold a
Public Hearing on
Tuesday, June 25th at
6pm in the Board of
Commissioners Room
located inside the Clinton
County Courthouse.

The purpose of the hearing is to review the resolution and entertain public comments pertaining to the request from Granger to make amendments to the Clinton Co. Waste Management Plan (SWMP).

STATE OF MICHIGAN PROBATE COURT COUNTY OF CLINTON NOTICE TO CREDITORS

File No.: 2023-31872-DE
Estate of Billle Lange.
Date of Billle Lange.
Date of Bills Educary. 22: 1947;
To All Creditors;
Notice to Creditors: The decedent.
Billie Lange, who lived at:
607 Turner Rd. DeWitt; MI.48820;
Died: March 15: 2023;
Creditors of the decedent are notified that all claims against the deceased will be forever barred unless presented to the trustee Bryon P.
Gallagher, Jr., named personal rep-

resentative, or to both the probate

court, 100 E. State St., Ste. 4300,

St. Johns, MI 48879; and the named

personal representative within four.

months after the date of publication.

Bryon P. Gallagher, Jr. 6025 N. Hagadom Road East Lansing, MI/48823 Shane Hilyard P7.3245 The Gallagher Law Firm; PLC 6025 N. Hagadom Road East Liansing, MI/48826

(06/25)

(517) 853-1506

CLINTON COUNTY LEGALS

NOTICE OF MORTGAGE SALE ATTENTION HOMEOWNER: IF YOU ARE A MILITARY SERVICE MEMBER ON ACTIVE DUTY, IF YOUR PERIOD OF ACTIVE operative by reason of such default, NOTICE IS HEREBY GIVEN that on Wednesday, July 26, 2023 at 10:00 o'clock in the forenoon, at the South entrance to the Clinton County

MINUTES OF THE CLINTON COUNTY MEETING OF THE SOLID WASTE PLANNING COMMITTEE (SWPC) HELD TUESDAY APRIL 11, 2023, AT THE CLINTON COUNTY COURT HOUSE, 100 E. STATE STREET, ST JOHNS, **MICHIGAN 48879.**

MEMBERS PRESENT: CHARLES HAUSER, JOEL CONN, KRIS JOLLEY, JILL BROWN, TERRY LINK, BRUCE DELONG,

CAROLYN BROKOB, GERRIT BANCROFT, TIM FAIR, JULIE POWERS, KATIE FOURNIER, DAN

COSS, JIM SNELL

MEMBERS ABSENT: THERESA LARK

GUESTS:

SERENITY SKILLMAN, JIM BRANT, STEVE BLAYOR, NANCY CLARK COLEMAN, DAVID

COLEMAN, JOHN ZIMMERMAN, TAYLOR BASS, DAVID BARTKARAK, TIM KRAUSE

1. CALL MEETING TO ORDER:

Department of Waste Management Coordinator (DWMC) Kate Neese called the meeting to order at 6:01 p.m. DWMC Neese explained that her department manages the Clinton County Solid Waste Management Plan (SWMP) and acts at the Designated Implementing Agency per State requirements.

2. APPROVAL OF THE AGENDA:

Member Fair moved and Member Coss supported the approval of the agenda as written. Motion carried.

3. APPROVAL OF PER DIEMS/MILAGE VOUCHERS

Member Coss moved to approve vouchers and member Link supported approval of the vouchers. Motion to approve vouchers carried.

4. APPROVAL OF FEBRUARY 23RD MEETING MINUTES

Member Fair moved to approve the meeting minutes as presented and Member Conn supported the approval of the February 23rd meeting minutes. Motion to approve the February 23rd meeting minutes carried.

5. PUBLIC COMMENT

- Nancy Clark Coleman from People's Action League expressed concern about Granger's expansion into Branch County, asked for clarification on Granger's objectives. Also expressed concerns about the landfill and how it would potentially affect the surrounding area homes and water supply.
- Steve Blayer, current Granger employee (Former EGLE regulator with the State of Michigan) gave comment about Granger; stating his experience in working with them has always been positive and felt they held higher company standards than what state and federal policy dictates they follow.
- Tim Krause, Head Granger Engineer with Granger gave a presentation on the two proposed amendments to the current Solid Waste Management Plan. The presentation gave an overview of administrative processes and potential uses for the site, reviewed how Granger follows all state and federal regulations and asked the committee to vote in favor of approving the proposed amendments.

6. DISCUSSION

- Committee member Coss stated that the currently closed landfill does not have any issues and follows regulations. There are no other sites like this in Michigan.
- Committee member Fair asked who owned this landfill before granger Nancy Clark Coleman stated that it was previously owned by Herman Miller.
- Committee member Brown asked if a third party could confirm and cross examine all the steps that
 Granger has laid out in its plan to build this new site. Kate Neese explained the many steps in the
 process for Granger to have this new site approved going through EGLE's processes after the county,
 if approved by the committee.
- Member Snell asked if this new cell does get built, how much time will it add to current capacity. Tim
 Krause stated that it would add 10-15 years of capacity.

7. REVIEW DRAFT AMMENDMENT LANGUAGE

Committee members Brown and Snell commented about separating the two amendment requests.
 Discussion held.

Committee member Fair moved to adopt the resolution language as presented and Committee member Bancroft supported this motion. A roll call vote was called and the motion carried 7 yays to 6 nays.

8. OTHER BUSINESS

None at this time.

9. ADJOURNMENT

Kate Neese explained that there will be a 90-day public comment period. Comments should be submitted to Clinton County Department of Waste Management through email recycle@clinton-county.org or written mail 100 East 5tate Street, Suite 1500, St Johns, MI 48879 BEFORE Friday July 14th at 5:00pm. A public hearing to review all public comments has been set for Tuesday, July 25th at 6:00pm to be held at the Clinton County Courthouse in the Board of Commissioners Room. Committee members requested to have an EGLE contact invited to the next meeting to be available for questions. Kate Neese will send a request to EGLE. Member Fair moved to adjourn the meeting at 7:14p.m and Member Bancroft seconded the motion. Motion to adjourn carried.

Bruce DeLong, Chairperson

Kate Neese, Waste Management Coordinator

MINUTES OF THE CLINTON COUNTY MEETING OF THE SOLID WASTE PLANNING COMMITTEE (SWPC) HELD TUESDAY AUGUST 8, 2023, AT THE CLINTON COUNTY COURT HOUSE, 100 E. STATE STREET, ST JOHNS, MICHIGAN 48879.

MEMBERS PRESENT: CHARLES HAUSER, JOEL CONN, KRIS JOLLEY, JILL BROWN, BRUCE DELONG, CAROLYN

BROKOB, GERRIT BANCROFT, TIM FAIR, JULIE POWERS, DAN COSS

MEMBERS ABSENT: THERESA LARK, JIM SNELL, KATIE FOURNIER, TERRY LINK

GUESTS: SERENITY SKILLMAN, JIM GRANT, JOHN ZIMMERMAN, TIM KRAUSE, JOHN MAAHS

1. CALL MEETING TO ORDER:

Chairperson Delong called the meeting to order at 6:03 p.m.

2. APPROVAL OF THE AGENDA:

Member Fair moved and Member Conn supported the approval of the agenda as written. Motion carried.

3. APPROVAL OF PER DIEMS/MILAGE VOUCHERS

Member Conn moved to approve vouchers and member Coss supported approval of the vouchers. Motion to approve vouchers carried.

4. APPROVAL OF JULY 25TH MEETING MINUTES

Member Fair moved to approve the meeting minutes as presented and Member Bancroft supported the approval of the July 25th meeting minutes. Motion to approve the July 25th meeting minutes carried.

5. PUBLIC COMMENT

• Granger Representatives brought informational posters to reiterate previous data that has been shared with the committee. The committee did not have any follow up questions for Granger.

6. REVIEW DRAFT AMMENDMENT LANGUAGE

Waste Management Coordinator, Kate Neese explained the amendment would stay in one resolution according to the committee's previous vote, as well as on recommendation from Clinton County's lawyer. Committee member Fair moved to adopt the resolution language as presented and Committee member Coss supported this motion. A roll call vote was called: YEAS: Charles Hauser, Joel Conn, Kris Jolley, Jill Brown, Bruce DeLong, Carolyn Brokob, Gerrit Bancroft, Tin Fair, and Dan Coss. NAYS: Julie Powers. The motion carried.

7. OTHER BUSINESS

to Clinton County Board of Commissioners, then the proposed amendments will be sent out to all the municipalities in the county for their vote.				
C. ADIOURNIAGNIT				•
8. ADJOURNMENT	•			
Member Fair moved to adjourn the meeting at 6:1 to adjourn carried.	13p.m and Memb	er Brown secon	ded the motion. M	lotion
	-			
Bruce DeLong, Chairperson	Kate Neese, Was	te Managemen	t Coordinator	
				٠

Ms. Neese explained to the committee the next steps for the amendment process. First Ms. Neese will present



Clinton County Solid Waste Planning Committee

100 East State Street, Suite 1500, St. Johns, MI 48879 Phone: 989-224-5186. Fax: 989-224-5102

Email: recycle@clinton-county.org

Katos

PUBLIC HEARING

Part 115 of Michigan's Solid Waste Management Act (MCL §324.11501 et sea.) ("Part 115")

CLINTON COUNTY COURTHOUSE BOARD OF COMMISSIONERS ROOM

100 East State Street, St Johns, MI 48879

TUESDAY July 25, 2023 6:00PM

AGENDA

- 1. Call Meeting to Order
- 2. Approval of Agenda
- Approval of Per Diems/Mileage Vouchers

 Approval of April 11th meeting minutes 3.
- 4.

Public Comment - Tim + TV/ie 5.

- Speakers please make sure to sign in.
- b. Please limit comments to three minutes per person.

lose - Tim+ Dan

c. Speakers must give full name, spell last name out for the record and state current address before presenting their official public comment for the record.

6.

7.

PACKET INFORMATION IS CURRENT AS OF POSTING DATE. NOTE: ADDITIONAL INFORMATION MAY BE PRESENTED ON SCHEDULED AGENDA ITEMS. AGENDA ITEMS MAY ALSO BE ADDED DUE TO BUSINESS NEEDS. TO REQUEST ACCOMMODATIONS OR MATERIALS IN AN ALTERNATIVE FORMAT, PLEASE CONTACT ADMINISTRATIVE SERVICES AT 989-224-5120 OR VIA EMAIL AT ADMIN@CLINTON-COUNTY.ORG NO LATER THAN 48 HOURS PRIOR TO THE MEETING.

Public Comment Jim Grant - Granger consultant EGCE - other business Carolyn B - water-town Twp report on Granger presentation Danasted for public comment through EGLE permitting process -Tiffany-yes-public notice, public meeting + comment latie-has a new build on closed how waste tandfill ever been regulated before in MI? one other attempt in country-didn't gothr. - How is the closed haz waste landfill regulated when solid waste builds on? - Corrective action already attached to landfill (voc + boron plume). - Never been done before in MI - Closed landfill, Mist maintain property + cap

Terry-appreciates Granger-asked about waste reduction + new plan.

- Christina Miller - vision of new plan diff from previous law, Initiation may be Coming in September. Counties will need to identify management goals.

. No more Type Z green space landfills (with exceptions) in New Plan.

· 27 years statewide capacity at current

· Plans developed in rext 3 years · New plan removes reciprocity

time to that process.

Christina-new law is pushing the new plan forward





Clinton County Solid Waste Planning Committee

100 East State Street, Suite 1500, St. Johns, MI 48879 Phone: 989-224-5186, Fax: 989-224-5102

Email: recycle@clinton-county.org

PUBLIC HEARING

Part 115 of Michigan's Solid Waste Management Act (MCL §324.11/501 et seq.) ("Part 115")

CLINTON COUNTY COURTHOUSE BOARD OF COMMISSIONERS ROOM
100 East State Street, St Johns, MI 48879

TUESDAY July 25, 2023 6:00PM

AGENDA

- 1. Call Meeting to Order
- 2. Approval of Agenda
- 3. Approval of Per Diems/Mileage Vouchers
- 4. Approval of April 11th meeting minutes
- 5. Public Comment
 - a. Speakers please make sure to sign in.
 - b. Please limit comments to three minutes per person.
 - c. Speakers must give full name, spell last name out for the record and state current address before presenting their official public comment for the record.
- 6. Other Business
- 7. Adjournment

PACKET INFORMATION IS CURRENT AS OF POSTING DATE. NOTE: ADDITIONAL INFORMATION MAY BE PRESENTED ON SCHEDULED AGENDA ITEMS. AGENDA ITEMS MAY ALSO BE ADDED DUE TO BUSINESS NEEDS. TO REQUEST ACCOMMODATIONS OR MATERIALS IN AN ALTERNATIVE FORMAT, PLEASE CONTACT ADMINISTRATIVE SERVICES AT 989-224-5120 OR VIA EMAIL AT ADMIN@CLINTON-COUNTY.ORG NO LATER THAN 48 HOURS PRIOR TO THE MEETING.



Other Business

Adjournment

6.

7.

Clinton County Solid Waste Planning Committee

100 East State Street, Suite 1500, St. Johns, MI 48879 Phone: 989-224-5186, Fax: 989-224-5102

Email: recycle@clinton-county.org

PUBLIC HEARING

Part 115 of Michigan's Solid Waste Management Act (MCL §324.11501 et seq.) ("Part 115")

	CLINTON COUNTY COURTHOUSE BOARD OF COMMISSIONERS ROOF	М
	100 East State Street, St Johns, MI 48879	Waste
	TUESDAY July 25, 2023 6:00PM	Managen
	AGENDA	Notes
1.	Call Meeting to Order 6:02 pm for > 085	
2.	Approval of Agenda Fair > COSS	
3.	Approval of Per Diems/Mileage Vouchers C6SS >3011e4	-
4.	Approval of April 11th meeting minutes CoSS - > fair	
5.	Public Comment Fair -> Pour 11 yes public (connect
	a. Speakers – please make sure to sign in.	
	b. Please limit comments to three minutes per person.	
	c. Speakers must give full name, spell last name out for the record and st	
	address before presenting their official public comment for the record	l.
	2000	

EAGLE Ropresontative COST-> Snell 6:48pm PACKET INFORMATION IS CURRENT AS OF POSTING DATE. NOTE: ADDITIONAL INFORMATION MAY BE PRESENTED ON SCHEDULED AGENDA ITEMS. AGENDA ITEMS MAY ALSO BE ADDED DUE TO BUSINESS NEEDS. TO REQUEST ACCOMMODATIONS OR MATERIALS IN AN ALTERNATIVE FORMAT, PLEASE CONTACT ADMINISTRATIVE SERVICES AT 989-224-5120 OR VIA EMAIL AT ADMIN@CLINTON-COUNTY ORG NO LATER THAN 48 HOURS PRIOR TO THE MEETING.

Close plubac Comment

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	Public Comment
1)	Consultant for granger ~ Jim Grant - positive comments for grangers good business practices - Difficult process, tut choosing
	- positive comments for grangers good
	business practices
	- Difficult process, tut choosing
7)	hate leads encils of public comment
	hate leads encils of public comment 3 Seperate onails
	Watertown
*	Brokob "Gronger hosted meeting in her township"
	Brokob "Granger hosted meeting in her township" Position meeting
	Snell - No Q's
	Powers "the cap on the amount of waste per year?"
	Powers "the Cap on the amount of Waste perylon?" - Hawsen - Stated in Solid Waste Plan
*	Delong - No O'S
A	Banoroft - No a's
	V
紫	COSS "IS there Dutlie Comment during the Egle
	process
	COSS "Is there public comment during the Egle process" Eagle Jes - once the permit has been approved
7/2	Fourier "Is building on top of closed landfill ever noppered before" lagle - Only I other attempt before-Not frished
	and Californal Defore
-	saight - City other allement perone-Northinited

* Fournier - How would that be regulated

Egle = It will go through technical reviewed

Eagle = the Cap is currently monitor

Egle = Grangen has Washing forever * Link - State Signed Legeslated -> Do We need new land fill? Egle = Courties will have to propose resource reduction. If the committee approves, Cink granger still has to go through Egle.

Egle = Wheet about Branch Country

Egle = Currently * con = NO a's * Hauser = thanked Egle Egile * Brokob = Sutbacks (Ony Changes?)
Egle = Sites for use area would have its own Setback Rules. Egle= Committe -> Commissioners => municipalities Kate = Unsure about New management plan Egle = In September > New Cegeslation and Jim Grant = 10-14 years for process to complete Don't Want to want for New plan

* Hauser - Osted for clarification about of timeline Egle = Engineer from granger = Why are we wanting if august 8th next necting will lote 2 Seperate announdments? No-Keeplet one

MINUTES OF THE CLINTON COUNTY MEETING OF THE SOLID WASTE PLANNING COMMITTEE (SWPC) -PUBLIC COMMENT MEETING HELD TUESDAY JULY 25, 2023, AT THE CLINTON COUNTY COURT HOUSE, 100 E STATE STREET, ST JOHNS, MICHIGAN 48879.

MEMBERS PRESENT: CHARLES HAUSER, JOEL CONN, KRIS JOLLEY, TERRY LINK, BRUCE DELONG, CAROLYN

BROKOB, GERRIT BANCROFT, TIM FAIR, JULIE POWERS, KATIE FOURNIER, DAN COSS, JIM

SNELL

MEMBERS ABSENT: THERESA LARK, JILL BROWN

GUESTS:

JIM BRANT, CHRISTINA MILLER, TIFFANY JOHNSON, TIM KRAUSE, TAYLOR REUTTER,

ERIN MAGUIRE. CHRISTINE MATLOCK

1. CALL MEETING TO ORDER:

Chairperson Delong called the meeting to order at 6:02 p.m.

2. APPROVAL OF THE AGENDA:

Member Fair moved and Member Coss supported the approval of the agenda as written. Motion carried.

3. APPROVAL OF PER DIEMS/MILAGE VOUCHERS

Member Coss moved to approve vouchers and member Jolley supported approval of the vouchers. Motion to approve vouchers carried.

4. APPROVAL OF APRIL 11TH MEETING MINUTES

Member Coss moved to approve the meeting minutes as presented and Member Fair supported the approval of the April 11th meeting minutes. Motion to approve the April 11th meeting minutes carried.

5. PUBLIC COMMENT

Member Fair made a motion to open public comment and Member Powers supported the motion. Roll call vote was called to open public comment. Motion carried - 12 yays, 0 nays.

- Jim Grant, PE of Middle M Management, LLC 2654 Loon Lane, Okemos 48864 gave public comment in person at the public meeting. Mr. Grant (consultant for Granger) gave positive and favorable comments about his time working with Granger and their demonstration of good business practices. Mr. Grant spoke about his work with other waste management companies in the past and some of those companies weren't as transparent as Granger. Granger is working towards utilizing this property in the best way in regard to the new regulations.
- The Department of Waste Management Coordinator, Kate Neese presented three public comments she had received during the public comment period via mail and email: Ms. Neese read the letters aloud to the committee in the order in which they were received. The public comment letters are attached to these minutes (Attachment 1).

Member Fair made a motion to close public comment and Member Coss supported the motion. Roll call vote was called to close public comments. Motion carried – 12 yays, 0 nays.

6. OTHER BUSINESS

- Ms. Neese reminded the committee that they requested EGLE representation at this meeting to answer questions.
- Committee member Brokob spoke about how Granger had recently hosted an open-forum meeting in Watertown Township. Member Brokob described the event as very successful and well received by the community. She thanked Granger for their time and effort in hosting the event.
 - Ms. Neese shared the updated FAQ's from Granger. These are attached to the minutes (Attachment 2).
- Committee member Powers asked what the cap on the amount of waste was per year. Tim Krause with Granger stated that the specific amounts are clearly defined in the current Solid Waste Plan.
- Committee Fair echoed the public letters of support from the Lansing Regional Chamber and Hedlund Plumbing.
- Committee Member Coss asked the EGLE representatives that were present in the meeting if there is a public comment period during the EGLE processing of Granger's request. EGLE Representative stated yes, once the permit has been approved there is a time frame for public comment.
- Member Coss asked Ms. Neese to clarify who the letter of support was from and Ms. Neese stated it was on behalf of the Lansing Regional Chamber.
- Committee Member Fournier asked the EGLE representatives who were present in the meeting, "Has building on top of a closed landfill ever happened before in the state of Michigan?" EGLE representatives stated that it had only been attempted once before but that project was never completed. This closed landfill will always be regulated as a hazardous waste landfill.
- Committee Member Fournier asked for some clarification on current monitoring of the closed landfill.
 EGLE representative explained the well monitoring and that there will be technical hurdles to be
 worked through as this has never been done before in Michigan. The closed landfill is being regulated
 by Part 111 RCRA program. The post closure operating license requires financial assurance, monitoring
 of cap and landfill, and maintenance of this site. The state performs regular inspections of this site.
 The 30 years post closure has expired, but the state allows post closure requirements until the landfill
 is no longer a threat to human health and environment.
- Committee Member Link stated that he appreciated the process that Granger is going through. He discussed upcoming recycling goals and changes in waste reduction. Christina Miller with EGLE briefly explained upcoming changes per the new law and Material Management Plan updates including goals and capacities. Landfills moving forward will no longer be able to develop green space on a new site unless they can demonstrate a need for it, after working through all the resource reduction activities. Statewide, Michigan has about 26 years' worth of landfill capacity. The new management plans will be developed over the next three to five years. Ms. Miller explained the differences between amending the current management plan versus waiting to do changes within the new management plan. Ms. Miller explained import/export waste differences in the plans. The current plan will remain as the main operating document until the new plan is finished.
- Committee Member Hauser thanked everyone for attending and for answering the import/export questions.
- Tiffany Johnson with EGLE explained that if this amendment passes, it will then have to come back to the SWPC for the siting process.
- Committee Member Brokob asked about current setbacks and if there would be any issues with building on top of the current location? Ms. Miller with EGLE explained that the County's plan

currently states what the setbacks are and this may impact the footprint of the proposed area sited for use. Ms. Neese then discussed next steps and timeline. Ms. Miller with EGLE explained that if the proposed amendment is approved, Granger will need to submit a site use plan for review and approval. She stated that this process could get very complicated with developing the new management plan while working through the site use request as each plan requires different committees. Ms. Neese stated that she doesn't have the experience to determine which is the best route to move forward for the county and for Granger. Ms. Miller explained the new management plan timeline. She has concerns about the county and state being able to balance both the amendment as well as developing the new management plan.

- Jim Grant stated that this is a ten-to-fourteen-year process (for Granger to develop) and there is no way of knowing what the new management plan process will look like. We understand the current process, which is why Granger chose to move forward now instead of waiting. Waiting could put Granger into violation of the new plan's requirement for space (capacity). Ms. Miller with EGLE explained that the new plan process is in law and has begun.
- Committee Member Hauser asked for clarification on the new plan's timeline. Ms. Miller stated that the county has three years to complete the process once they file their Notice of Intent. Ms. Miller explained that the current proposed amendments are worth doing at this time because these mechanisms aren't changing in the new plan. Discussion held.
- Ms. Neese stated the next meeting is scheduled for Tuesday, August 8th at 6:00pm to review and vote on the proposed amendments. Ms. Neese asked the committee if they wished to split the amendment into two resolutions or keep it as one per our attorney. Discussion held.

7. ADJOURNMENT

Member Coss moved to adjourn the meeting at 6:48p.m and Member Snell seconded the motion. Motion to adjourn carried.

Bruce DeLong, Chairperson

Kate Neese, Waste Management Coordinator

Neese, Katherine

Barbara Mackie <barbaramackie1616@gmail.com> From:

Friday, April 21, 2023 2:54 PM Sent:

Neese, Katherine To:

Subject: Re: Waste Management Amendments

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Barbara Mackie 13210 Wacousta Rd Grand Ledge MI 48837

On Fri, Apr 21, 2023, 2:38 PM Neese, Katherine < NeeseK@clinton-county.org> wrote:

Hi and thanks for reaching out,

Could you please reply to this email with your name and mailing address? We need that information for the record.

Thanks again, Kate Neese – Recycling & Waste Management Coordinator Clinton County Department of Waste Management 100 E. State Street *Suite 1500 St Johns, MI 48879

(989) 224-5186

Fax (989) 224-5102

recycle@clinton-county.org

Like us on Facebook! https://www.facebook.com/ClintonCountyMI

Do you have something that needs to be recycled? Check out our Waste Wizard www.clinton-county.org/WasteWizard

This message has been prepared on resources owned by Clinton County, MI. It is subject to the Internet and Online Services Use Policy of Clinton County.

----Original Message-----

From: Barbara Mackie <barbaramackie1616@gmail.com>

Sent: Friday, April 21, 2023 2:34 PM

To: Neese, Katherine < NeeseK@clinton-county.org>

Subject: Waste Management Amendments

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I am not in favor of any changes regarding the Grand River landfill.

Keep it as it is now. Thank you!



HEDLUND PLUMBING Robert N. Hedlund 7974 W. Grand River Grand Ledge, Mi 48837

July 11, 2023

Clinton County Department of Solid Waste 100 E. State Rd. St. Johns, Mi 48879

Re: Clinton County Solid Waste Amendment Public Comment Letter.

To the members of the solid Waste Planning Committee:

As president of Hedlund Plumbing and the next-door neighbor to Granger's Grand River Facility for over 40 years, I am writing in support of the amendments at hand.

I 100% support the business model of Granger and the stewards they give the area. They are always spot on with the maintenance of the roads and land around our building.

If you have any more questions, please feel free to call me anytime by email or cell phone.

Thank you,

Robert Hedlund Hedlund Plumbing

bob@hedlundplumbing.com

be t Hedlund

(517) 202-3801 (cell)



sale Work Releasies slave Heat Navinesses Connect, Grow and Thrive.

Thursday, July 13, 2023

Clinton County Solid Waste Planning Committee 100 S. State Rd. St. Johns, MI

Dear Members of the Clinton County Solid Waste Planning Committee,

On behalf of the Lansing Regional Chamber of Commerce, I am writing today to express our support for the addition of the amendment stated in the recent public hearing notice to the Clinton County Solid Waste Plan. We work with many businesses and elected officials in Clinton County and beyond. For many years, we have worked closely with Granger Waste Services and know from experience that they are an exceptional company.

While we represent many different industries, there is one that is often overlooked and often taken for granted. The solid waste industry as we know, is an essential piece of our communities. Granger Waste Services provides an important service to our residents and for several decades has managed to keep our community clean. In addition, they've managed to maintain solid waste facilities with the utmost professionalism and responsibility. While providing community outreach, education and focusing on being responsible environmental stewards. On top of this they provide well-paying jobs to more than 350 people throughout the Lansing region.

After understanding more about the amendment request, we've learned there will be a rigorous research and regulatory process should anything occur following inclusion to the plan. For this reason and those mentioned above, we have complete trust in Granger's leadership to manage solid waste safely and responsibly in Clinton County.

Should the committee have any questions for me, please feel free to contact me.

Sincerely,

Tim Daman

President & CEO

Brenda Butler-Challender, Clerk Bath Charter Township P.O. Box 247 Bath, MI 48808-0247

> Melinda Schafer, Clerk Dallas Township P.O. Box 297 Fowler, MI 48835

Laurie Briggs-Dudley, Clerk Eagle Township 13600 S Bauer Rd. Eagle, MI 48822

> Daniel Smith, Clerk Lebanon Township 14234 W Kinley Fowler, MI 48835

Lisa Powell, Clerk Riley Township 7110 W. Pratt Rd Dewitt, MI 48820

Heather Platte, Clerk Westphalia Township 13950 W. Pratt Rd, P.O. Box 429 Westphalia, MI 48894

> Lisa Grysen, Clerk City Of Dewitt 414 E. Main St. Dewitt, MI 48820

Chris Swope, Clerk City of Lansing 124 W. Michigan Ave Lansing, MI 48933

Rhonda Feldpausch, Clerk Village of Fowler 225 N Main PO Box 197 Fowler, Michigan 48835

Dave Boswell Village of Westphalia 200 N. Willow St. Westphalia, MI 48894 Sharon Bassette, Clerk Bengal Township 6586 W. M-21 St. Johns, MI 48879

Adam Cramton, Clerk Dewitt Charter Township 1401 W. Herbison Rd Dewitt, MI 48820

Tim Karasek, Clerk Essex Township 5111 Findlay Rd St. Johns, MI 48879

Sandra June, Clerk Olive Township 1400 W. Pratt Rd Dewitt, MI 48820

Lianne Prange, Clerk Victor Township 6843 E. Alward Rd Laingsburg, MI 48848-9256

Susan Tomasek Swan, Clerk City of Ovid P.O. box 138 114 E. Front Street Ovid, MI 48866

Marie Wicks, Clerk City of East Lansing 410 Abbot Rd, Room 100 East Lansing, MI 48823

Village of Eagle Clerk 14318 Michigan St, P.O. Box 11 Eagle, MI 48822

Village of Hubbardston Clerk 306 Russell St. P.O. Box 234 Hubbardston, MI 48845 Amy Wirth, Clerk Bingham Township 2057 N. Lansing St. Johns, MI 48879

Dawn Levey, Clerk Duplain Township 145 W. Main St Elsie, MI 48831

Ramona Smith, Clerk Greenbush Township 1883 E. French Rd St. Johns, MI 48879

Claudia Barrett, Clerk Ovid Township P.O. Box 136 Ovid, MI 48866

Carolyn Brokob, Clerk Watertown Charter Township 12803 S. Wacousta Rd. Grand Ledge, MI 48837-9240

Mindy Seavey, Clerk City of St. Johns 100 E. State St, Suite 1100 St. Johns, MI 48879-0477

Gregory Newman, Clerk City of Grand Ledge 310 Greenwood St Grand Ledge, MI 48837

Susan Lightner, Clerk Village of Elsie 145 W. Main St, P.O. Box 408 Elsie, MI 48831-5287

Diana Henry, Clerk Maple Rapids Village 118 W. Adelaide St., Box 200 Maple Rapids, MI 48853

2023 SWMP Amendment - adding Branch County for waste import/export

& Reactivating a closed landfill - 1/5/23

• 4 Representatives from the Solid Waste Management Industry

- o Charles Hauser Consultant for Granger
- o Joel Conn Friedland Industries, Inc.
- o Kris Jolley Michigan State University Surplus & Recycling
- o Jill Brown Metro Recycling Solutions

• 2 Representatives from Environmental Interest Groups

- o Terry Link Greater Laingsburg Recyclers
- o Theresa Lark MidMichigan Environmental Action Council (MidMEAC)

• 1 County Government

o Bruce DeLong - Clinton County Commissioner

• 1 City Government

Dan Coss – City of DeWitt

• 1 Township Government

o Carolyn Brokob – Watertown Charter Township

• 1 Regional Planning Agency

o Jim Snell - Tri County Regional Planning Agency

1 Industrial Waste Generator

o Gerrit Bancroft - AgroLiquid Fertilizer

• 3 General Public

- o Tim Fair
- o Julie Powers
- o Katie Fournier

STATE OF MICHIGAN COUNTY OF CLINTON BATH CHARTER TOWNSHIP RESOLUTION NO. 2023-08

RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN

At a regular meeting of the Bath Charter Township Board of Trustees held in Bath Michigan on November 6, 2023, at 6:00p.m.

PRESENT: Wilson, Phillips, Kellerman, Fewins-Bliss, Rosekrans, Butler-Challender

ABSENT: Howe

The following resolution was offered by Treasurer Wilson and supported by Trustee Phillips:

WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and

WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and

WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and

WHEREAS, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and

WHEREAS, the Bath Charter Township Board of Trustees has reviewed the Plan Amendment and finds that it promotes and protects the solid waste needs and interests of the citizens living therein;

NOW, THEREFORE, BE IT RESOLVED that the Bath Charter Township Board of Trustees approves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan.

BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Suite 1500, St. Johns, MI 48879 and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.

YEAS: Kellerman, Fewins-Bliss, Rosekrans, Butler-Challender, Wilson, Phillips

NAYS: None
ABSENT: Howe

STATE OF MICHIGAN COUNTY OF CHINTON

Name of local unit: Bengal

RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN

Merember	2023, 2000 m	o Board	held in_5/. Telo	Michigan on
PRESENT:	Erice Bras	& Sharow	Bassitte,	Nick Mel
ABSENT:	Stan Sel		ALTEC 3	
nich follo	wing resolution was	offered by Est	Book Epponed	by

WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and

WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and

WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and

WHEREAS, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and

WHEREAS, the Board has reviewed the Plan Amendment and finds that is promotes and protects the solid waste needs and interests of the citizens living therein.

Approves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan,

RE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Chipton County Department of Waste Management at 100 East State Street, Saite 1500, St. Johns, MI 48879 and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.

NEWS: Drug Mick, Eric, Sherow.

STATE OF MICHIGAN

COUNTY OF CLINTON
Name of local unit: Binghum Two

RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN

At a regular meeting of the Township Bourd held in Brighton Michigan or 11/132, 2023, at 7 p.m.
At a regular meeting of the Township Board held in Bughtan Michigan or 11/132 ,2023, at 7 p.m. PRESENT: Dig. Survivor Harger, Transact Snith, Clerkwith, Trustee Huffulger.
ABSENT: Jupenious Silm
The following resolution was offered by HRFngel and supported by
WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and
WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and
WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and
WHEREAS, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and
WHEREAS, the Board has reviewed the Plan Amendment and finds that it promotes and protects the solid waste needs and interests of the citizens living therein;
NOW, THEREFORE, BE IT RESOLVED that the Branch Two Bolice approves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan.
BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Suite 1500, St. Johns, MI 48879 and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.
YEAS: 4
NAYS:
RESOLUTION ADOPTED

STATE OF MICHIGAN COUNTY OF CLINTON Name of local unit: Dallas Touris

RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN

At a regular meeting of the Dallos Twp. Bowd held in Fowler, Michigan on Sept. 11, 2023, at 2p.m.
PRESENT: Vem Fildpausch, Melinda Schafer, Sepnanii Schafer, A. Schafen Elizabeth Douglass
ABSENT:
The following resolution was offered by V. Feld pausen and supported by E. Douglass:
WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and
WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and
WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and
WHEREAS, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and
WHEREAS, the <u>Dalles Two</u> . Bossed has reviewed the Plan Amendment and finds that it promotes and protects the solid waste needs and interests of the citizens living therein;
NOW, THEREFORE, BE IT RESOLVED that the <u>Dallas Twp. Board</u> approves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan.
BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Suite 1500, St. Johns, MI 48879 and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.
YEAS: 5
nays: 0

RESOLUTION ADOPTED

Resolution 2023-09-12 STATE OF MICHIGAN COUNTY OF CLINTON

Name of local unit: DeWITT CHARTER TOWNSHIP

RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN

At a regular meeting of the Township Board held in DeWitt, Michigan of September 11, 2023, at 7:00 p.m.
PRESENT: Galardi, Cramton, Stump, Seeger, Ross, Fedewa, and Smith
ABSENT: None
The following resolution was offered by Seeger and supported by Ross:
WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and
WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and
WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and
WHEREAS, Part 115 requires review and approval of the Plan Amendment by at leas 67% of the municipalities located within Clinton County; and
WHEREAS, the Township has reviewed the Plan Amendment and finds that i promotes and protects the solid waste needs and interests of the citizens living therein;
NOW, THEREFORE, BE IT RESOLVED that the Township approves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan.
BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Suite 1500, St Johns, MI 48879 and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.
YEAS: Fedewa, Ross, Cramton, Smith, Stump, Seeger, Galardi.
NAYS: None.
This Resolution is declared adopted this 11th day of September, 2023

Adam Cramton, Township Clerk

STATE OF MICHIGAN COUNTY OF CLINTON Name of local unit: Duplasm Journal

$\frac{\textbf{RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE}}{\underline{\textbf{MANAGEMENT PLAN}}}$

At a regular meeting of the Doplain Two held in E/sie, Michigan on September 32023, at 7 p.m.
PRESENT: Bruce Levey, Army Bowen, Ryan Boots Robert Ladists, Dawn Lovey
ABSENT: Mone
The following resolution was offered by Ryan Footsand supported by Raherf Lacies:
WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and
WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and
WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and
WHEREAS, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and
WHEREAS, the Description Two has reviewed the Plan Amendment and finds that it promotes and protects the solid waste needs and interests of the citizens living therein;
NOW, THEREFORE, BE IT RESOLVED that the Toplain Two Espaperoves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan.
BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Suite 1500, St. Johns, MI 48879 and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.
YEAS: 5
NAYS: O

RESOLUTION ADOPTED

EAGLE TOWNSHIP, CLINTON COUNTY, MICHIGAN

RESOLUTION 10-19-2023-01

RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN

At a regular meeting of the Township Board of the Township of Eagle, Clinton County, Michigan, held in the Eagle Township Hall, on the 19th day of October, 2023, at 6 p.m., Local Time.

Present: Supervisor Schafer, Trustee Strahle, Clerk Briggs-Dudley, Treasurer Oberg

Absent: Trustee Jones

The following resolution was offered by Clerk Briggs-Dudley and seconded by Trustee Strahle.

WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and

WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and

WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16, attached as Exhibit 1;

WHEREAS, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and

WHEREAS, the Township Board of the Township of Eagle has reviewed the Plan Amendment and finds that it aligns with the solid waste needs and interests of the citizens living therein;

NOW, THEREFORE, BE IT RESOLVED that the Township Board of Eagle Township approves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan.

BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Ste 1500, St. Johns,

MI 48879 and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.

AYES: Treasurer Oberg, Trustee Strahle, Clerk Briggs-Dudley, Supervisor Schafer

NAYS: None

ABSENT: Trustee Jones

RESOLUTION DECLARED ADOPTED.

Laurie Briggs-Dudley, Clerk

Township of Eagle

Clinton County, Michigan

STATE OF MICHIGAN

COUNTY OF CLINTON

Name of local unit: Lebanos Turp

RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE **MANAGEMENT PLAN**

At a regular meeting of the Latanor turp held in Fowler, Michigan on Sapt. 18, 2023, at 830 fm.
PRESENT: Smith, Armbrustmacher, Fitzpatrick
ABSENT: (
The following resolution was offered by Smith and supported by
WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and
WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and
WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and
WHEREAS, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and
WHEREAS, the Lebana To has reviewed the Plan Amendment and finds that it promotes and protects the solid waste needs and interests of the citizens living therein;
NOW, THEREFORE, BE IT RESOLVED that the Laboratory approves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan.
BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Suite 1500, St. Johns, MI 48879 and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.
YEAS: 5
NAYS: O
·

RESOLUTION ADOPTED

STATE OF MICHIGAN
COUNTY OF CLINTON
Name of local unit: Olve Township

RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN
OCHOBER At a regular meeting of the ONETOWNShip Boucheld in Dewith, Michigan on , 2023, at 130p.m.
Emple Lotfert, Thister Louis Fairer, Truster Elizabeth Ju
ABSENT: MONE
The following resolution was offered by Elizabeth July and supported by
WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and
WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and
WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and
WHEREAS, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and
WHEREAS, the <u>Olivition has the like the Plan Amendment and finds that it</u> promotes and protects the solid waste needs and interests of the citizens living therein;
NOW, THEREFORE, BE IT RESOLVED that the OWN TOWN BOWN approves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan.
BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Suite 1500, St. Johns, MI 48879 and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.
YEAS: VOISINH, June, Wolfert, Faivor, June
NAYS: MOW

RESOLUTION ADOPTED

STATE OF MICHIGAN COUNTY OF CLINTON

Name of local unit: OVID TOWNSHIP

RESOLUTION NUMBER 2023-05

RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN

At a regular meeting of the <u>Ovid Township Board</u> held in <u>Ovid</u>, Michigan on Thursday, October 12, 2023, at <u>7 p.m.</u>,

PRESENT: Supervisor Jennings C. West, Clerk Claudia Barrett Pluger, Treasurer Nancy J. Hughson, Trustee Patricia Hibbard, Trustee Arlene Pesik

ABSENT: None

The following resolution was offered by <u>Clerk Claudia Barrett Pluger</u> and supported by <u>Trustee Patricia Hibbard</u>:

WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and

WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and

WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and

WHEREAS, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and

WHEREAS, <u>Ovid Township</u> has reviewed the Plan Amendment and finds that it promotes and protects the solid waste needs and interests of the citizens living therein;

NOW, THEREFORE, BE IT RESOLVED that <u>Ovid Township</u> approves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan.

BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Suite 1500, St.Johns, MI 48879, and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.

YEAS: Supervisor Jennings C. West, Clerk Claudia Barrett Pluger, Treasurer

Nancy J. Hughson, Trustee Patricia Hibbard, Trustee Arlene Pesik

NAYS: None

RESOLUTION ADOPTED

Jennings C. West, Supervisor

STATE OF MICHIGAN COUNTY OF CLINTON Riley Township

RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN

At a regular meeting of the Riley Township Board held in Dewitt, Michigan on October 5, 2023, at 7:00 PM-

PRESENT: Supervisor Don Potts, Treasurer Pam Feldpausch, Clerk Lisa Powell, Trustee Trish Martens, Trustee Brian Lawless

ABSENT: NONE

The following resolution was offered by Clerk Powell and supported by Treasurer Feldpausch:

WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and

WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and

WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and

WHEREAS, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and

WHEREAS, the Riley Township Board has reviewed the Plan Amendment and finds that it promotes and protects the solid waste needs and interests of the citizens living therein;

NOW, THEREFORE, BE IT RESOLVED that the Riley Township Board approves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan.

BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Suite 1500, St. Johns, MI 48879 and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.

YEAS: Treasurer Feldpausch, Clerk Powell, Trustee Marténs, Trustee Lawless, Supervisor Potts

NAYS: None

ABSTENTIONS: None

RESOLUTION ADOPTED

Riley Township, Clinton County, Michigan

I, LISA S POWELL, Clerk of the Township of Riley, County of Clinton do hereby certify that the foregoing resolution was duly adopted by the Riley Township Board at the regular meeting held October 5, 2023 and is on file in the records of this office.

Gia S. Buell

STATE OF MICHIGAN COUNTY OF CLINTON TOWNSHIP OF VICTOR

Resolution 2023-09-01

RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN

At a regular meeting of the Victor Township Board of Trustees held at 6843 Alward Rd., Laingsburg, Michigan on September 12, 2023 at 7:00 p.m.

Members Present: Absent:

WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and

WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and

WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and

WHEREAS, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and

WHEREAS, the Victor Township Board of Trustees has reviewed the Plan Amendment and finds that it promotes and protects the solid waste needs and interests of the Citizens living therein;

NOW, THEREFORE, BE IT RESOLVED that the Victor Township Board of Trustees approves the proposed Plan Amendment to the Clinton County Solie Waste Management Plan.

BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Suite 1500, St. Johns, MI 48879 and may it be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.

The following resolution was offered by <u>Willoughby</u>. and seconded by <u>Prange</u>.

Upon roll call vote the following voted "aye" Conklin, Prange, Willoughby, Fikes, Townsend.

"no" None.

RESOLUTION DECLARED ADOPTED.

STATE OF MICHIGAN)	
COUNTY OF CLINTON)	

CERTIFICATION

I, the undersigned, the duly qualified and acting Clerk of the Township Board of Victor Township, DO HEREBY CERTIFY that the foregoing is a true and complete copy of certain proceedings taken by Board of said Township at a regular meeting held on the 12th day of September, 2023.

Lianne Prange

Victor Township Clerk

WATERTOWN CHARTER TOWNSHIP CLINTON COUNTY, MICHIGAN

RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and

WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and

WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and

WHEREAS, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and

WHEREAS, the Watertown Charter Township Board of Trustees has reviewed the Plan Amendment and finds that it promotes and protects the solid waste needs and interests of the citizens living therein;

NOW, THEREFORE, BE IT RESOLVED that the Watertown Charter Township Board of Trustees approves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan.

BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Suite 1500, St. Johns, MI 48879 and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.

CERTIFICATION

I, the undersigned duly qualified Clerk of Watertown Charter Township, Clinton County, Michigan do hereby certify that the foregoing is a true and complete copy of a resolution duly adopted by the Township Board of Trustees of the Charter Township of Watertown, County of Clinton, Michigan at a regular meeting held on September 18, 2023 at 7:00PM EST and that said meeting was conducted and public notice of said meeting was given pursuant to and in full compliance with the Open Meetings Act, being Act 267, Public Acts of Michigan, 1976.

I further certify that the following Members were present at said meeting: Supervisor Maahs, Clerk Brokob, Treasurer Biergans, Trustee Hufnagel, Trustee Cooley, Trustee Overton, and Trustee Madill. Absent: None A motion to adopt the foregoing resolution was made by Trustee Madill and seconded by Clerk Brokob A vote on the foregoing resolution was as follows:

Yes: Madill, Hufnagel, Maahs, Brokob, Biergans, Cooley, Overton

No: None

Resolution Declared: Adopted

Carolyn Brokob, Clerk

Date: September 18, 2023

STATE OF MICHIGAN COUNTY OF CLINTON CITY OF DEWITT RESOLUTION 2023-11

RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN

At a regular meeting of the <u>DeWitt City Council</u> held in <u>DeWitt</u>, Michigan on September 25, 2023, at 7p.m.

PRESENT: DONOHUE, HUNSAKER, OSTRANDER, VAN DYKE	WHITMAN
ABSENT: KELLOGG	ž.
The following resolution was offered by Van Dyke Whitman:	and supported by

WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and

WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and

WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and

WHEREAS, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and

WHEREAS, the DeWitt City Council has reviewed the Plan Amendment and finds that it promotes and protects the solid waste needs and interests of the citizens living therein;

NOW, THEREFORE, BE IT RESOLVED that the DeWitt City Council_approves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan.

BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Suite 1500, St. Johns, MI 48879, and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.

YEAS: ALL

NAYS: NONE

I HEREBY CERTIFY, that the foregoing is a Resolution duly made and passed by City Council of DeWitt City at their regular meeting held on September 25, 2023, at 7:00 p.m. in The DeWitt Council Chambers at City Hall, 414 East Main Street, with a quorum present.

Dated: 9.25.2023

Sarah Stoltzfus



Grand Ledge City Council Resolution #67 of 2023

A Resolution to Approve a Plan Amendment to the Clinton County Solid Waste Management Plan.

A resolution adopted by the Grand Ledge City Council, at a regular meeting held on Monday, 09 October 2023, in the Council Chambers, City Hall, 310 Greenwood St., Grand Ledge MI 48837, in compliance with the Open Meetings Act, as amended.

Whereas, the City of Grand Ledge, Michigan ("City") is a municipal corporation organized under the provisions of the Home Rule City Act, Public Act 279 of 1909, as amended, and is governed by the provisions of the Grand Ledge City Charter adopted 07 August 2018, as amended ("Charter"); and

Whereas, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and

Whereas, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and

Whereas, on 29 August 2023, the Clinton County Board of Commissioners adopted an amendment to the Plan ("Plan Amendment") in Resolution 2023-16; and

Whereas, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and

Whereas, the City has reviewed the Plan Amendment and finds that it promotes and protects the solid waste needs and interests of its the residents;

Now, Therefore, It Is Resolved:

- 1. The City approves the Plan Amendment to the Clinton County Solid Waste Management Plan, as attached.
- The City directs the City Clerk to forward a copy of this resolution to the Clinton County
 Department of Waste Management to be included as a matter of record in the Appendix of the Solid
 Waste Management Plan or Plan Amendment.

Motion by Willems
Second by Lantz

Ayes: Jancek, Lantz, Logel, MacDowell, Mulder, Willems

Nays: None

Absent: Gillespie

Approved:

Keith O. Mulder



Keith O. Mulder, Mayor

I, Gregory L. Newman, Grand Ledge City Clerk, certify this is Resolution #67 of 2023, adopted by the Grand Ledge City Council at a regular meeting held on Monday, 09 October 2023; in the Council Chambers, City Hall, 310 Greenwood St., Grand Ledge MI 48837, in compliance with the Open Meetings Act, as amended.

Ing Zrum

Gregory L. Newman, City Clerk

Resolution 2023-09

STATE OF MICHIGAN COUNTY OF CLINTON

Name of local unit: City of Ovid

RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN

At a regular meeting of the Ovid City Council held in Ovid , Michigan on October 9 , 2023, at 7:00 pm.
PRESENT: L. Ordiway, L. Perrien, M. Olger, M. Lasher, E. Brown, M. Perrien, E. Starn
ABSENT: None
The following resolution was offered by L. Perrien and supported by M. Perrien:
WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and
WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and
WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and
WHEREAS, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and City of Ovid
WHEREAS, the Council has reviewed the Plan Amendment and finds that it promotes and protects the solid waste needs and interests of the citizens living therein;
NOW, THEREFORE, BE IT RESOLVED that the <u>City of Ovid Council</u> approves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan.
BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Suite 1500, St. Johns, MI 48879 and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.
YEAS: L. Ordiway, L. Perrien, M. Olger, M. Lasher, E. Brown, M. Perrien, E. Starn
NAYS:

RESOLUTION ADOPTED

RESOLUTION #33-2023

STATE OF MICHIGAN COUNTY OF CLINTON

Name of local unit: CITY OF ST. JOHNS

RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN

At a regular meeting of the St. Johns City Commissionheld in St. Johns , Michigan on October 23 , 2023, at6:00 p.m.
PRESENT: Eric Hufnagel, Jean Ruestman, Brad Gurski, Scott Dzurka, Chris Hyzer
ABSENT: None
The following resolution was offered by Hyzer and supported by Ruestman:
WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and
WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and
WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and
WHEREAS, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and
St. Johns WHEREAS, the City Commission has reviewed the Plan Amendment and finds that it promotes and protects the solid waste needs and interests of the citizens living therein;
NOW, THEREFORE, BE IT RESOLVED that the St. Johns City Commission approves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan.
BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Suite 1500, St. Johns, MI 48879 and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.
YEAS: Hufnagel, Ruestman, Gurski, Dzurka, Hyzer
NAYS: None
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(EBOLETION III) OT TED

Mindy J. Seabey City Clerk

STATE OF MICHIGAN COUNTY OF CLINTON FILLAGE OF FOWLER

RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN

The following resolution was offered by Trustee Fink and supported by Trustee Schrauber

WHEREAS Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and

WHEREAS Part 115 requires the Plan to be periodically updated in light of changing circumstances; and

WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and

WHEREAS Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and

WHEREAS, the Village of Fowler has reviewed the Plan Amendment and finds that it promotes and protects the solid waste needs and interests of the citizens living therein;

NOW, THEREFORE, BE IT RESOLVED that the Village of Fowler approves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan.

BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Suite 1500, St. Johns, MI 48879 and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.

YEAS: Schrauben, Rhynard, Schmitt, V. Thelen, Humphrey

NAYS: Porter, Fink ABSENT: None

RESOLUTION ADOPTED

STATE OF MICHIGAN

COUNTY OF CLINTON

I, RHONDA FELDPAUSCH, Clerk of the Village of Fowler do hereby certify that the foregoing resolution was duly adopted by the Fowler Village Council at the regular meeting held October 10, 2023 and is on file in the records of this office

khonda Feldpausch

Fowler Village Clerk

STATE OF MICHIGAN COUNTY OF CLINTON

Name of local unit: Village of Maple Rapids

RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN

At a regular meeting of the Village of Maple Rapids Council held in Maple Rapids, Michigan on September 6, 2023, at 7:30 p..m.

PRESENT: Bill Schmidt, Amanda Van Etten, Zackery Manning, Heidi Holland, Mitch Leiby, Paul Sorah

ABSENT: None

The following resolution was offered by Amanda VanEtten and supported by Bill Schmidt:

WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and

WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and

WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and

WHEREAS, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and

WHEREAS, the Village of Maple Rapids council has reviewed the Plan Amendment and finds that it promotes and protects the solid waste needs and interests of the citizens living therein;

NOW, THEREFORE, BE IT RESOLVED that the Village of Maple Rapids approves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan.

BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Suite 1500, St. Johns, MI 48879 and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.

YEAS: Bill Schmidt, Amanda VanEtten, Zackery Manning, Heidi Holland, Mitch Leiby, Paul Sorah

NAYS: None

RESOLUTION ADOPTED

STATE OF MICHIGAN COUNTY OF CLINTON VILLAGE OF WESTPHALIA

RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN

At a regular meeting of the Village Council held in Westphalia, Michigan on October 2, 2023, at 7:00 p.m.

PRESENT:

Tim Fandel

Steve Miller

Kevin Krzeminski

Tanner Droste

William Schmitt

Jim Pivarnik

Phil Smith

David Boswell, Clerk

ABSENT: None

The following resolution was offered by Tim Fandel and supported by William Schmitt:

WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and

WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and

WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and

WHEREAS, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and

WHEREAS, the Village Council has reviewed the Plan Amendment and finds that it promotes and protects the solid waste needs and interests of the citizens living therein;

NOW, THEREFORE, BE IT RESOLVED that the Village Council of the Village of Westphalia approves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan.

BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Suite 1500, St. Johns, MI 48879 and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.

YEAS: 7

NAYS: 0

RESOLUTION ADOPTED

I, David Boswell, Clerk of the Village of Westphalia do hereby certify that the foregoing resolution was duly adopted by the Village of Westphalia at the regular meeting held on October 2, 2023 and is on-file in the records of this office.

Date: 10/31/2023

STATE OF MICHIGAN **COUNTY OF CLINTON**

Name of local	unit:	

Name of local unit:
RESOLUTION APPROVING AMENDMENT TO CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN
MANAGEMENT FLAN
At a regular meeting of the Eagle Village Council held in Eagle, Michigan on Oct 9, 2023, at 6:30 pm.
PRESENT: Paul Bruden
ABSENT:
The following resolution was offered by Pour Broken supported by Engle Village:
WHEREAS, Clinton County ("County") has adopted a Solid Waste Management Plan ("Plan") under the authority of 1994 PA 451, Part 115 ("Part 115") as amended; and
WHEREAS, Part 115 requires the Plan to be periodically updated in light of changing circumstances; and
WHEREAS, on August 29, 2023, the Clinton County Board of Commissioners adopted a Plan Amendment in Resolution 2023-16; and
WHEREAS, Part 115 requires review and approval of the Plan Amendment by at least 67% of the municipalities located within Clinton County; and
WHEREAS, the Espe Ville has reviewed the Plan Amendment and finds that it promotes and protects the solid waste needs and interests of the citizens living therein;
NOW, THEREFORE, BE IT RESOLVED that the Eagle Unique approves the proposed Plan Amendment to the Clinton County Solid Waste Management Plan.
BE IT FURTHER RESOLVED that a copy of this resolution shall be forwarded to the Clinton County Department of Waste Management at 100 East State Street, Suite 1500, St. Johns, MI 48879 and may be included as a matter of record in the Appendix of the Solid Waste Management Plan or its Plan Amendment.
YEAS: 2 Yeas NAYS: 4 Ways
NAYS: 4 Nays

RESOLUTION ADOPTED

CLINTON COUNTY CLERK

OCT 19 2023



STATE OF MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY LANSING



DAN WYANT DIRECTOR

December 2, 2015

Mr. Robert Showers, Chairperson Clinton County Board of Commissioners 100 East State Street St. Johns, Michigan 48879-1571

Dear Mr. Showers:

The locally approved amendment to the Clinton County Solid Waste Management Plan (Plan Amendment) received by the Department of Environmental Quality (DEQ), dated October 6, 2015, is hereby approved.

The Plan Amendment makes the following changes:

- Updates the Import Authorization Table by adding the following counties: Clare, Hillsdale, Lenawee, and Mecosta counties.
- Updates the Export Authorization Table by adding the following counties: Clare, Hillsdale, Lenawee, and Mecosta counties.

The DEQ would like to thank Clinton County for its efforts in addressing its solid waste management issues. If you have any questions, please contact Ms. Christina Miller, Solid Waste Planning, Reporting and Surcharge Coordinator, Sustainable Materials Management Unit, Solid Waste Section, Office of Waste Management and Radiological Protection, at 517-614-7426; millerc1@michigan.gov; or DEQ, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,

Bryce Feighner, P.E., Chief Office of Waste Management and Radiological Protection

517-284-6551

cc: Senator Mr. Rick Jones

Senator Ms. Judy Emmons

Representative Mr. Tom Leonard

Ms. Kate Neese, Clinton County DPA

Mr. Dan Wyant, Director, DEQ

Mr. Jim Sygo, Chief Deputy Director, DEQ

Ms. Maggie Pallone. Director of Legislative Affairs, DEQ

Mr. Larry Bean, DEQ

Mr. Duane Roskoskey, DEQ

Ms. Rhonda S. Oyer/Ms. Christina Miller, DEQ/Clinton County File

STATE OF MICHIGAN



JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

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

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

October 16, 2000

Mr. Richard Hawks, Chairperson Clinton County Board of Commissioners 100 East State Street St. Johns, Michigan 48879-1571

Dear Mr. Hawks:

The Department of Environmental Quality (DEQ) received the locally approved update to the Clinton County Solid Waste Management Plan (Plan) on March 27, 2000. Except for the items indicated below, the Plan is approvable. As outlined in the June 14, 2000 letter to Ms. Ann Mason, Director, Clinton County Department of Waste Management, from Ms. Lynn Dumroese, DEQ, Waste Management Division, and as confirmed in your letter dated August 28, 2000, the DEQ makes the following modifications to the Plan:

On page 73, under the heading, Section II Process, item number 3, states that the applicant must submit payment of an application fee to cover costs associated with the review (stipulated in the Solid Waste Ordinance, Article 7 (7.4)). The Clinton County Solid Waste Ordinance found in Appendix D-3 does not contain section 7.4. The fee information is found in section 7.3 of Article 7. Therefore, the reference to Article 7 (7.4) shall be replaced with Article 7 (7.3).

On page 73, under the heading, Section II Process, item number 7, states that successful host agreements will result in the elimination of certain steps of the siting process. Clinton County (County) intended to eliminate the Local Planning Agency (LPA) review if successful host agreements are executed; however, the application will still need to be reviewed by the Site Review Committee (SRC). The step numbers referenced in this paragraph do not correspond to the correct siting processes that are intended to be bypassed. In the final Plan, the correct siting processes that will be referenced are steps 8, 9, and 10.

On page 74, under the heading, Section II Process, item number 9, reiterates the bypassing of certain siting processes if host agreements are successfully negotiated. Again, the references to the siting processes that are intended to be excluded are incorrect. Subsection a) shall state the applicant will not be required to proceed through Step 8 and Step 9 rather than Step 6 and Step 7. Subsection b) shall

reference Step 10, which explains the process of the application being forwarded to the SRC.

On page 75, under the heading, Section II Process, item number 12, states, "The SRC shall make and send the final determination of consistency for the proposal to the applicant." The County's intent was that the Board of Commissioners (BOC) will have the final determination of consistency, as indicated in Step 13, by signing the letter that is forwarded to the DEQ. Therefore, "SRC" shall be replaced with "BOC" in this sentence.

On page 75, under the heading, <u>Section II Process</u>, item number 13, states that a letter of consistency will be forwarded to the DEQ from the BOC. As previously mentioned, the BOC accepts responsibility for the determination of consistency by signing the letter; however, there is no information in the Siting Process that specifically states this. In addition, the BOC may choose not to sign the letter; therefore, the facility would not be consistent with the Plan. If the BOC should choose not to sign the recommendation of the SRC, they must be responsible for developing a letter of inconsistency that will be forwarded to the DEQ. Further, a time frame and default mechanism have not been established if the BOC should not take action on the determination of consistency. In order to clarify these issues, the following language will be added to item number 13:

Within 30 days of receiving the SRC determination, the BOC will review the SRC recommendation and determine if the facility is consistent or inconsistent based on the criteria established in the Plan. If the BOC determines the proposed facility is inconsistent with the Plan, they will be responsible for sending the DEQ a letter of inconsistency. By signing the letter of consistency, the BOC accepts the responsibility for the determination of consistency. Failure by the BOC to send a letter of consistency to the DEQ within the 30-day time frame will result in the application being deemed to be consistent with the Plan.

On page 75, under the heading, Section II Process, item number 14, states that the applicant will have the opportunity to provide additional information if the proposal is found to be inconsistent and the SRC may amend its initial finding based on this submitted information. There is no time frame or default action established for the SRC to make their determination if this process should need to occur. In addition, the BOC will still be responsible for reviewing the SRC's determination and making their own determination of consistency. The County indicated a 30-day time frame should be sufficient for the SRC to complete their review of additional information and another 30-day time frame should be sufficient for the BOC to make their determination of consistency. In order to clarify this process, the following language will be added to item number 14:

The SRC shall have 30 days to review the additional information and submit a determination of consistency to the BOC. If the SRC fails to

complete the review of additional information within 30 days, the application shall be deemed consistent and shall be forwarded to the BOC. Within 30 days of receiving the SRC's recommendation, the BOC shall review the SRC's recommendation and send a letter of consistency to the DEQ. If the BOC fails to send the letter of consistency to the DEQ within 30 days, the application will be considered to be consistent with the Plan.

On page 75, under the heading, Section II Process, item number 15, states that if the applicant does not agree with the decision of the SRC, the developer may appeal to the DEQ. Once again, the County intends on having the BOC be responsible for making the determination of consistency; therefore, the applicant may not agree with the decision of the BOC. In this sentence, "SRC" will be replaced with "BOC."

On page 76, under the heading, Section IV Criteria, item number 1, discusses the opportunity for the LPA and the SRC to refuse siting of a facility as long as 66 months of available capacity has been established. Section 11537a of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, states, "If any county is able to demonstrate to the department that it has at least 66 months capacity, that county may refuse to utilize its siting mechanism until the county is no longer able to demonstrate 66 months of capacity or ..." The decision is to refuse the use of the siting mechanism, which means this decision cannot be part of the siting criteria. Additionally, only one responsible party may have the authority to make this decision on behalf of the County. Usually, the BOC is the responsible party; however, the BOC can delegate this authority to another party. The County indicated if only one party could have this authority, the BOC would choose to be responsible for the decision, as indicated in item number 4 on page 73. Item number 1 shall be deleted from the Siting Criteria. and the Siting Process shall remain the same indicating the BOC will make the determination whether or not to proceed with the Siting Process.

On page 77, under the heading Section IV Criteria, item number 10, states, "A facility shall not be located in a regulated area as defined in Part 323, Shorelands Protection and Management, of Act 451, ..." "Regulated area" is not a term that is defined in Part 323. However, the terms "environmental area" and "land to be zoned or regulated" are defined. The County's intent was to include both of these definitions as part of the criterion. The term "regulated area" shall be replaced with both "environmental area" and "land to be zoned or regulated."

On page 80, under the heading New Disposal Facility Siting Process, the last process in the Responsibility column states "the applicant may appeal to the DEQ if, and only if, less than 66 months of capacity remains for the Plan area." The Plan cannot set limitations on the developer's right to submit an application to the DEQ for a construction permit. Even though this table seems to be included for paraphrasing purposes, the last process in this summary table shall be deleted in order to alleviate any discrepancy regarding the siting process.

On page 94, under the heading, Disposal Facilities – Operational Issues, the last paragraph states, "the negotiated terms of the agreement shall have precedence over the Ordinance and this Plan, so long as it is not in conflict with state and federal laws." A host agreement shall not overrule the authority of the Plan; therefore, the term "Plan" will be deleted from this sentence.

With these modifications, the County's updated Plan is hereby approved and the County now assumes responsibility for the enforcement and implementation of this Plan. Please ensure that a copy of this letter is included with copies of the approved Plan distributed by the County.

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

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

The DEQ applauds your efforts and commitment in addressing the solid waste management issues in Clinton County. If you have any questions, please contact Mr. Seth Phillips, Chief, Solid Waste Management Unit, at 517-373-4750.

Sincerely,

Russell J. Harding

Director

517-373-7917

cc: Senator Mike Rogers

Representative Larry Jullian Representative Valde Garcia

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

Mr. Timothy R. Sowton, Legislative Liaison, DEQ

Mr. Jim Sygo, DEQ

Ms. Joan Peck, DEQ

Ms. Elizabeth Browne - Shiawassee

Mr. Seth Phillips, DEQ

Ms. Lynn Dumroese, DEQ

Clinton County File

Clinton County

Solid Waste Management Plan

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CLINTON COUNTY SOLID WASTE MANAGEMENT PLAN

1999 PLAN UPDATE COVER PAGE



DATE SUBMITTED TO	THE DEG:			
MUNICIPALITIES FROM			VE	
DESIGNATED PLANNIN	IG AGENCY PREPA	ARING THIS PLA	N UPDATE:	
	Clinton County Depa	irtment of Waste M	anagement	
CONTACT PERSON:	Ann Mason			
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E-MAIL:	masona@clinton	-county.org		
CENTRAL REPOSITORY	LOCATION(S):	Clinton County Waste Managen	-	

DATE APPROVED BY THE DEQ:

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1 PART ONE - EXECUTIVE SUMMARY

1.1 PROCESS USED WHEN DEVELOPING/APPROVING PLAN

In the development of this updated Solid Waste Management Plan (Plan) Clinton County followed the process prescribed by law. The only structural alteration was the added use of ad hoc work groups made up of Solid Waste Planning Committee members. These smaller groups were able to more thoroughly discuss specific and somewhat difficult topics. The work groups were advisory only; final decisions on items recommended for Plan inclusion were made by the full Committee. Appendix C contains documentation verifying process.

1.2 PROBLEMS ENCOUNTERED AND OVERCOME

A number of challenges have influenced the planning process that will impact services in the coming years, and the nature of this Plan.

Waste hauling companies are being consolidated into ever larger corporate entities. Consolidation of the solid waste industry leads to concerns regarding monopolistic control in local jurisdictions due to lack of competition, inflated pricing and challenges in communication with managers of disposal facilities. Much of the solid waste market in Michigan is controlled by two or three multi-national corporations. At present, however, both landfills located within Clinton County continue to be owned by Granger Company, one of the few remaining independent hauling and disposal companies in the State.

The legislative climate surrounding the solid waste planning process in Michigan is unsettled. Legislative efforts to streamline the planning process and deal with issues pertaining to flow control have been ongoing for years. However, these efforts have yet to produce any substantive revisions to the existing system.

Strained relationship between the County and local landfill owners have challenged this planning process. In the past, relationships between the County and local disposal facilities have been established through negotiated agreements. However, those agreements have not withstood differing interpretations without dissolution or litigation.

Finally, the county's changing nature in terms of population, land use, retail development, and changing character challenge current approaches to integrated solid waste management.

The challenges identified above have motivated the development of a Plan; which will be viable under change and establishes clear baselines, and which accommodates possible state-level policy modifications. The new Plan will

emphasize increased educational focus on businesses, waste reduction and purchasing efforts. It provides a uniform regulatory environment under which disposal facilities and waste generators are expected to operate. Agreements with disposal facilities to address local operational issues are not precluded. Should they fail, however, certain operational standards are provided for through the Plan.

1.3 OVERVIEW OF THE COUNTY

Clinton County's population increasingly consists of citizens who work in the city and live in the country. Estimates indicate that the population has grown between 9% and 12% from the 1990 census of 57,883. Continued (and perhaps accelerated) growth is expected in the coming years.

Though it maintains its agricultural character and a strong agricultural economic base, the county's land use patterns are moving away from agriculture, toward suburban, low-density housing. The completion of a new north/south expressway fuels this change. New commercial and manufacturing interests are attracted to the convenience offered by the new expressway. Growing suburban population centers will likely result in an increase in retail establishments.

An increase in population, and the changing nature of the Clinton County resident, yields evolving waste generation patterns and service needs. This Plan recognizes some of these changes and offers flexibility to meet the needs of a rapidly growing county.

1.4 CONCLUSIONS

The following decisions were reached by Clinton County after going through the planning process and considering selected alternatives to the current integrated waste management system.

Build on 1990 Plan

One of the most important decisions made during the planning process in Clinton County was to maintain focus on the relevant goals included in the 1990 Plan. This Plan update continues a commitment to those priorities, outlines improvements to existing programs, and provides strategies for implementing new initiatives.

Continue Education but Modify Focus

Education will remain the cornerstone of Clinton County's Solid Waste Management Plan (Plan). The Plan continues to focus on household recycling, but introduces new emphasis on education programs that will encourage the purchase of products made from post-consumer materials as well as increase residential and business waste reduction and recycling efforts.

Assure Capacity

The Plan preserves disposal capacity by regulating the rate at which capacity may be used at disposal facilities located within the County. The Plan caps waste volumes at a level to prolong availability of space for Clinton County residents while providing flexibility to the landfill owner/operators. The Plan assures capacity for the next ten years through written commitments by disposal facility owner/operators in Clinton and other counties.

Provide Technical Support

The County will provide both financial and technical support to local municipalities, allowing communities to meet their specific waste management needs. In addition, the County will assist municipal leaders in evaluating and/or implementing new or improved solid waste services for their residents.

Continue to be Service Provider of Last Resort

This Plan continues to favor a diversified solid waste management handling structure in which citizens and/or municipal governments contract with their choice of private sector vendors for services. Clinton County continues to be the service provider of last resort, offering services when and where private sector service is lacking.

Develop Regional Approaches

The County will consider developing regional approaches to the collection of items which pose disposal or recycling problems. The county will also initiate and participate in cooperative purchasing of recycled products. Attention will be devoted to the relationship between Clinton County's strategy for addressing solid waste issues and other counties' strategies, especially in areas such as handling household hazardous, farm or universal wastes.

Enforce Standards of Conduct

The County believes it has a responsibility to protect the public and environment through enforcement of laws and other implementing mechanisms that establish safe waste handling practices for generators. Additionally, the county finds that large footprint developments such as disposal facilities should meet operational standards that consider and protect the public health, safety and welfare. Such standards should consider the welfare of citizens who live in the facility's vicinity as well as the facility owner/operator's need to succeed as a business.

Disposal facilities shall, at minimum, adhere to all operational standards for large disposal facility developments allowed by law, as defined by the Plan or locally applicable laws. Enforcement of prescribed solid waste management handling practices will be implemented through the Plan and a Solid Waste Ordinance.

Maintain Current Administrative Structure

The Plan prescribes an implementation structure that includes a Department of Waste Management to execute policy and provide services; a Solid Waste Council acting in an advisory capacity to the Department; and the County Board of Commissioners as the final decision maker on matters of staffing, budgets, and programs.

1.5 SELECTED ALTERNATIVE SYSTEM FOR INTEGRATED WASTE MANAGEMENT

Clinton County's approach to an integrated solid waste management system takes into consideration the county's various constituents: citizens, municipalities, private solid waste or recycling service providers, and businesses. The updated Plan demonstrates a three-pronged approach to solid waste management. It focuses heavily on education to deal with solid waste management behaviors among individuals, business and municipalities. It focuses on regulation to establish baselines for solid waste handling activities. And, the County will fill service gaps where the private sector fails to meet the needs of citizens.

A variety of the County's solid waste service delivery systems will continue unchanged. Local municipalities, residents and businesses will continue to contract for recycling and waste collection services by their preferred hauler. Population density, local government infrastructure, and citizen preferences will dictate the role municipalities will play in the provision of waste handling services to residents. To some degree, these same factors will also influence the variety of services offered by the haulers. The Plan does not mandate recycling or particular forms of collection.

The county will continue in its role as provider of last resort by supplementing services of the private sector in the areas of recycling and special collections. Drop-off recycling sites made possible by a Solid Waste Alternatives Project Grant from the State of Michigan will continue until at least 2004. Local grants offered by the County will continue to provide local communities opportunities to identify and address service gaps specific to their areas. The County will perform these functions while assuring adequate solid waste disposal capacity for citizens in a manner that protects public health, safety and welfare, economic vitality and the environment.

This updated Plan differs from the previous Plan in two primary ways; in education the focus shifts from pure recycling to waste reduction and purchasing issues, and it establishes a regulatory baseline of waste handling behavior. Expectations for individuals, businesses and disposal facilities located within the county are specifically identified. Providing such a baseline not only protects the health, safety and welfare of citizens, but also provides a clear point from which solid waste handling in this County can improve.



2 PART TWO - INTRODUCTION

2.1 GOALS AND OBJECTIVES

The primary purpose of the Clinton County Solid Waste Plan is to demonstrate capacity, meet the requirements of Part 115 and identify a comprehensive, integrated approach to management of waste generated by citizens and businesses of this County. This section defines the County's strategy through goals and objectives which emphasize: purchasing and use of products containing recycled content; maximizing recovery, waste reduction, and diversion from disposal facilities; and minimizing risk in waste handling practices.

Goal One

Achieve maximum purchasing and use of products that have been manufactured from recycled materials, in both the commercial and municipal sectors throughout the County.

Objective 1: Assemble and review status of current purchasing practices in governmental units, schools and businesses throughout the county

Objective 2: Assemble samples of purchasing policies, examine cooperative purchasing programs, track prices of commonly used commodities in government and business environments, and make such information available through educational and promotional programs.

Objective 3: Work regionally to target commonly used commodities which may benefit from cooperative purchasing.

Objective 4: Track and work on State and Federal initiatives which favor purchase and use of products made of recycled content.

Goal Two

Achieve maximum efficiencies in existing county programs.

Objective 1: Assemble and promote best management practices for solid waste management as derived from existing programs in this county and other municipalities.

Objective 2: Maintain the Department of Waste Management as the implementing arm of the Solid Waste Plan and provide for adequate funding and staffing.

Objective 3: Track actual costs of existing programs and assess impact.

Objective 4: Utilize various external and internal methods of evaluation to assess current delivery mechanisms and alternatives.

Objective 5: Identify and implement options, including: no change, alternatives, new programming or program elimination.

Goal Three

Achieve maximum participation in waste reduction, reuse and recycling programs.

Objective 1: Assess current recycling program participation levels and effectiveness of existing programs for promoting recycling.

Objective 2: Work to identify best management practices, including local case studies, which demonstrate the economic benefits of recycling and reuse, and make such information available to governments and businesses.

Objective 3: Continue education and promotional programs through schools and community organizations.

Objective 4: Work with developers, home owner associations, and municipalities to promote the establishment of minimum levels of solid waste services in high density areas, including but not limited to, waste pickup, recycling, and yard waste services.

Goal Four

Decrease dependency on disposal facilities through increased recycling, composting, waste reduction and reuse of resources in the solid waste stream

Objective 1: Provide education to the general public about the various waste reduction or handling options, including but not limited to consumer purchasing practices and volume based waste collection systems.

Objective 2: Work regionally to assess which commodities continue to be disposed of that have value and should be targeted for recovery. Work regionally to develop a promotion and education strategy to target such commodities.

Objective 3: Implement an active education and promotional strategy that favors purchase of commodities in recyclable containers.

Objective 4: Continue educational programming to promote recycling, composting and waste reduction.

Goal Five

Promote waste handling strategies and policies in Clinton County which protect public health and the environment.

Objective 1: Define the County's appropriate role in protecting the public health and environment as it relates to solid waste management.

Objective 2: Develop and maintain information about successful programming strategies in other parts of the state and country which address

issues of local concern. Make such information available regionally and through local networks.

Objective 3: Continue enforcement work against illegally handled waste.

Objective 4: Track and assess impact of various legislative initiatives which maintain, modify or introduce public policies impacting solid waste handling issues - including but not limited to, pollution prevention, solid waste disposal, waste reduction, recovery and composting.

Goal Six

Promote proper disposal and/or recycling of waste streams other than municipal solid waste which include, but are not limited to, household hazardous waste, used automotive fluids, universal wastes, appliances, tires, and other large, hard-to-dispose of items, etc.

Objective 1: Work regionally to identify alternative disposal methods.

Objective 2: Work regionally to assess the feasibility of a tri-county used autofluids recycling program.

Objective 3: Work regionally to assess the feasibility and impact of establishing a universal wastes recycling program.

Objective 4: Continue implementation and support for programs which recycle or properly dispose of 'hard to dispose of items, such as local and county-wide 'Dump Your Junk' or 'Clean Sweep' days.

2.2 DEFINITIONS

Annual Cap - Annual limitation on the quantity of solid waste permitted for disposal in Clinton County.

Authorized Local Official - a police officer or other personnel of a county, city, village, township, or regional parks and recreation commission created under section 2 of Act No. 265 of the Public Acts of 1961, being section 46.352 of the Michigan Compiled Laws, legally authorized to issue municipal civil infraction citations. [MCLA 600.8701(a)] For the purposes of this Plan, the WMC is designated by the Board of Commissioners as an Authorized Local Official.

Board of Commissioners (Board) - Clinton County Board of Commissioners

Construction and Demolition Waste (C&D Waste) - Refers to waste building materials, packaging, and rubble that results from construction, remodeling, repair, and demolition operations on houses, commercial or industrial buildings, and other structures. Construction and demolition waste also includes trees and stumps which are more than 4 feet in length and 2 inches in diameter and which are removed from property during construction, maintenance, or repair. [Rule 299.4102]

Contingency Disposal Capacity - For the purposes of this Plan, contingent disposal capacity is defined as capacity identified by an approved solid waste management plan that is available to a particular county under certain extenuating circumstances, or when primary capacity is no longer available.

Department of Waste Management (DWM) - Department of Clinton County responsible for implementation of the Solid Waste Management Plan and any other duties as may be assigned by the Board of Commissioners.

Designated Planning Agency (DPA) - Agency and/or person designated by the Board of Commissioners as responsible for the Solid Waste Management Plan development, amendment and/or update; currently the Clinton County Department of Waste Management.

Disposal Facility - a solid waste transfer facility, incinerator, sanitary landfill, processing plant, or other waste handling or disposal facility utilized in the disposal of solid waste.

Franchised Services - Solid waste, recycling and/or composting services contracted for by a municipality or other organization on behalf of a group of residents and/or businesses.

Hauler - Any person who owns or operates a solid waste transporting unit.

Household Hazardous Wastes (HHW) - Refers to certain waste types excluded under waste management regulations. More specifically, potentially hazardous wastes which, because they are generated from within the home are not regulated under RCRA subtitle C. Such wastes can include: universal wastes, leftover paints, garden pesticides, household cleaners, small quantities of fuels, nail polish, etc.

Legally Executed Agreement - For purposes of this Plan, a Legally Executed Agreement means a Memorandum of Understanding (MOU), Host Community Agreement (HCA), Special Use Permit (SUP) or any other agreement or contract referenced by law, and entered into by and between the County and another organization, including but not limited to another county, solid waste services vendor, municipality, the state, a county department, or disposal facility owner/operator for the purpose of addressing solid waste management issues, recycling and compost services, or operational matters at a disposal facility.

Materials Recycling Facility (MRF) - A facility that receives source separated or un-separated waste materials for the purpose of recovering component materials for reuse or recycling. Only those facilities which receive materials that are not source separated are regulated by this Plan.

Municipal Solid Waste Incinerator Ash - substances remaining after combustion in a municipal solid waste incinerator.

Part 115 - Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Part 115).

Pay As You Throw/Volume-based Waste Collection - Solid waste collection systems which charge the solid waste generator in direct proportion to the quantity of solid waste that is generated and presented for collection and disposal.

Primary Disposal Capacity - For the purposes of this Plan, primary disposal capacity is defined as capacity identified in an approved solid waste management plan that is available at all times to a county for end disposal use, provided there is adherence to any specified conditions.

Solid Waste Council (SWC) - A Council appointed by the Board of Commissioners, consisting of membership and holding terms as designated in the Plan and by the Board, which serves in an advisory capacity on issues of solid waste to the Department of Waste Management and Board of Commissioners.

Solid Waste Generator - Any person(s) or organization(s) producing solid waste.

Solid Waste Management Coordinator (WMC) - Person appointed or employed by the Board of Commissioners to implement the approved Solid Waste Management Plan.

Solid Waste Management Plan (Plan) - Approved Solid Waste Management Plan for Clinton County.

Type II Waste - For the purpose of this Plan, Type II waste is defined as any municipal solid waste, non-hazardous industrial waste, commercial waste and construction and demolition waste legally accepted at a municipal solid waste sanitary landfill.

Type III Waste - For the purposes of this plan, Type III waste is defined specifically as construction and demolition waste and non-hazardous industrial waste (which may be accepted at a Type II or Type III municipal solid waste disposal facility).

Universal Wastes - Refers to batteries, fluorescent lights, unused herbicides and pesticides, and thermostats containing mercury. [Federal Rule R 299.9228(1)]

User Fee - Fee paid by users of disposal facilities within Clinton County for end disposal of solid waste. May be addressed through agreement or levy.

Terms not defined herein are interpreted to have meanings ascribed by Part 115 of PA 451 of 1994 and associated regulations. Definitions are not intended

to conflict with State or Federal law. Where discrepancies exist, State and/or Federal law definitions prevail.

2.3 SEVERABILITY

The Plan and various sections, clauses, implementing agreements or ordinances thereof, are hereby declared to be severable. If any part, sentence, paragraph, section, clause or word is adjudged unconstitutional or invalid for any reason, by any Court of competent jurisdiction, such invalidity shall not affect the remaining portions or applications of this Plan which can be given effect without the invalid portion or application, provided such remaining portions are not determined by the Court to be inoperable.



3 PART THREE - DATA BASE

The following information is based upon information gathered from disposal facilities receiving Clinton County waste: The Michigan Department of Environmental Quality Report of Solid Waste Landfilled; data collected on recycling programs from service providers; and projections based upon EPA guidance.

3.1 WASTE GENERATION AND PROJECTIONS

WASTE GENERATION SUMMARY - 1997 DATA

	1997 Total	5 Year Annual	10 Year Annual
Population	63,087	69,075	73,104
Waste Type			
Residential SW	23,436 Tons	25,558 Tons	27,048 Tons
Commercial & Industrial SW	8,234 Tons	8,980 Tons	9,504 Tons
Recovered	3,756 Tons	5,285 Tons	6,745 Tons
Compostables	2,810 Tons	3,199 Tons	3,516 Tons
C & D Debris	1,905 Tons	2,681 Tons	3,421 Tons
TOTAL	40,141 Tons	45,703 Tons	50,234 Tons
Per Capita Generation			
Residential - per person	.51 Tons	Or 3 lbs/person/da	y (365 days/yr)
Commercial/Ind. (1,089 businesses)	7.56 Tons	Ave. of 58 lbs./busi	ness/day (260 days/yr)

No major problems are anticipated in managing the County's solid waste. Current resource recovery programs have potential for growth, and participation in existing waste reduction and recycling programs has made an impact on the amount of waste needing disposal. Population and commercial growth areas may experience increased levels of solid waste generation, most notably construction and demolition materials. Increases are anticipated in more densely populated areas of the county which are also logical geographic targets for more aggressive curbside waste reduction collection systems as well as curbside recycling and recovery. Retail waste is likely to increase significantly with the planned construction of a Meijers store in St. Johns and the commercial development that often follows such new businesses.

TOTAL WASTE GENERATION: 120,423 CY

TOTAL WASTE REQUIRING DISPOSAL: 95,000 CY

3.2 SOLID WASTE DISPOSAL AREAS

The following table summarizes disposal areas authorized in the previous Plan to serve Clinton County solid waste disposal needs. For more specific information please refer to the facility descriptions contained in the following pages.

Granger facilities each have in excess of 30 years of capacity remaining if current fill rates continue. Clinton County waste comprises only about 8% of the total waste received by Granger. Granger accommodates about 75% - 80% of the waste generated from within Clinton County. Remaining amounts go primarily to Venice Park. This trend is expected to continue.

The following information is taken directly from each facility's own facility description form. Clinton County assumes no responsibility for the accuracy or consistency of the information. As the County has ample disposal capacity assured, conversions of the following information to a common denominator has not been performed.

Name	Location	Volume	Current Capacity	Estimated Lifetime
Granger Land Development Co., Gr. River Rd., Watertown Twp.	Clinton	600,000 CY	7,617,000 CY	32 Years
Granger Waste Management Co. Wood Street, DeWitt Twp.	Clinton	600,000 CY	10,981,000 CY	34 Years
Pitsch Sanitary Landfill	Ionia	83,000 T	40,000 T	.5 Years*
Venice Park Recycling & Disposal Facility	Shiawassee	526,000 CY	1,300,000 CY	2.5 Years*
Daggett Sand and Gravel,.	Ingham	7,500 CY	60,000 CY	8.8 Years

^{*}Pitsch Companies has a pending construction permit that will extend landfill life an additional 30 years; Venice Park has an expansion permit pending as well.

Facility descriptions follow.

Facility Descriptions and Maps for Facilities Used Under Previous Plan

Facilities are contained within the following Counties

Clinton (a)

Ingham (e)

Ionia (f)

Shiawassee (m)

(letters at the bottom of the facility description pages correspond to all facility descriptions contained in 5.8)

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II	
Facility Name: Granger Grand River	Avenue Landfill
County: Clinton	Location: Town: 5N Range: 3W Section(s): 29
Map identifying location included in Attachment	Section: Yes If Requested No
If facility is an incinerator or a transfer station, I transfer station wastes:	ist the final disposal site and location for incinerator ash or
Public x Private Owner: Grang	er Land Development Company
· ·	industrial construction & demolition contaminated soils special wastes * other: Type ITT Wastes
Site Size: Total area of facility property: * Total area sited for use: (Plan) Total area permitted:(For Disposal,i.e.Si Operating:(Licensed & Certified) Not excavated: Developed Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume:	180.9 acres 120.9 acres 120.9 acres 85.7 acres 54.1 acres 31.6 acres 7.617,000 tone c= yds Air Yards 32 years 300 days 600.000 tone o= yds Gate Yards
(if applicable) Annual energy production: Landfill gas recovery projects: Waste-to-energy incinerators: *1: Includes acres of (separate DEO numbers on permits and	

GRANGER GRAND RIVER AVE LANDFILL



Photo: April 1998

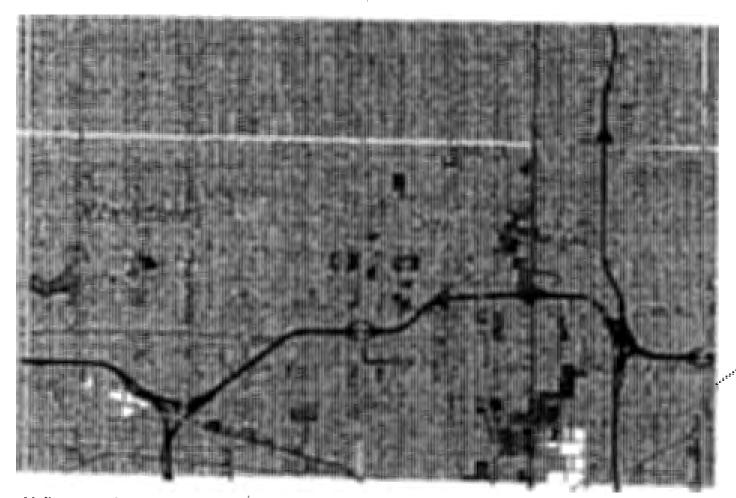


Granger Grand River Landfill - Legal Description

Landfill facility located in Watertown Township within Clinton County. The legal description of this facility is as follows:

Com. At a point on the E-W 1/4 line distant S89°58'41"E 1316.40' from the W 1/4 cor. of Sec. 29, T5N-R3W, Watertown Township, Clinton County Michigan, th. N00° 19'38"E alg. the W 1/8 line 2278.35' to a pt. on the S. r/o/w ln. of I-96, as now located, th. alg. sd. S. limited access r/o/w on the arc of a curve to the right, sd. curve having a delta angle = $14^{\circ}03'45''$, radius of 5626.58', long chord bearing and distance = S77°29'16"E 1377.50', a distance of 1380.96'<th. S66°05'38"E 153.95' to the P.C. of a curve to the right, sd. curve being the S. limited access r/o/w ln. of I-69 eastbound turning roadway as now proposed, and having a delta angle of 31°08'16", radius of 2784.79', long chord bearing and distance = S50°25'03"E 1494.86', a distance of 1513.41; th. S34°50'55"E a distance of 545.20' to a point on the S. ln. of the N. 4/5 of NE 1/4 Sec. 29, th. N89°42'41"W alg. sd. S. In. 85.60', th. S34°50'55"E 73.21', th. S00°21'03W" 1774.96' to a pt. on the c/I of Grand River Avenue formerly U.S.16 sd. c/l being the c/l of the 100 foot, being 50 feet either side of the c/l r/o/w, th. alg. sd. c/l, the following courses: N74°53'07"W 1654.94', N76°45'31"W 1083.81' N76°49'55"W 263.56' to the intersection of sd. c/l and the W 1/8 ln. th. N00°22'07"E alg. sd. W 1/8 ln. 576.69' to the POB.

PARCELS OWNED BY GRANGER



Primary
State Trun
US Trunk
Cctownbound.s
Ccsections.shp
Parcel

ு போறுள் crosses County Line

Yellow pacels are owned by Granger and include or are contiguous to existing landfill facilities.

WATERTOWN AND DEWITT CHARTER TOWNSHIPS



SELECTED SYSTEM

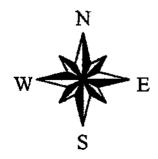
FACILITY DESCRIPTIONS

Facility Name: Granger Wood	5N 34
Clinton	
County: Ingham	Location: Town: 4N Range; 2W Section(s): 3
Map identifying location included in	Attachment Section: Yes If RequestedNo
If facility is an incinerator or a trans transfer station wastes :	ofer station, list the final disposal size and location for incinerator ash or
Public X Private Owner	Granger Waste Management Company
Operating Status (check)	Waste Types Received (check all that apply)
X cheu	<u>y</u> residemial
	<u>x</u> commercial
closed **	x industrial
unlicensed y construction permit	x industrial construction & demolition
y construction permit	x contaminated soils
open, but closure	. X special wastes *
pending	y other Type TIT Wastes
All as authorized '	
ite Size:	
ite Size: Total area of facility property:	302.8 acres
Site Size: Total area of facility property: Total area sited for use: (Plan)	194.8 acres + 67 (future permitting in
ite Size: out area of facility property: out area sited for use; (Plan) out area permitted:(for dispos	194.8 acres + 67 (future permitting in al,i.e.SWB) 104.3 acres Ingham County)
ite Size: oud area of facility property: oud area sited for use: (Plan) oud area permitted:(for dispos Operating:(Licensed & Certi	194.8 acres + 67 (future permitting in al,i.e.SWB) 104.3 acres Ingham County)
ite Size: oul area of facility property: oul area sited for use; (Plan) oul area permitted:(for dispos Operating:(Licensed & Certi Not excavated: Developed	194.8 acres + 67 (future permitting in al,i.e.SWB) 104.3 acres Ingham County) - fied) 49.5 acres 54.8 acres
ite Size: Out area of facility property: Out area sited for use: (Plan) Out area permitted:(for dispos Operating:(Licensed & Certi Not excavated: Developed intent capacity:	194.8 acres + 67 (future permitting in sal,i.e.SWB) 104.3 acres Ingham County) - fied) 49.5 acres
ite Size: Cotal area of facility property: Cotal area sited for use: (Plan) Cotal area permitted:(for dispos Operating:(Licensed & Certi Not excavated: Developed Chirent capacity: Instituted lifetime:	194.8 acres + 67 (future permitting in al,i.e.SWB) 104.3 acres Ingham County) - fied) 49.5 acres 54.8 acres 10_981_nnn tons-oryds Air Yards years
ite Size: Total area of facility property:	194.8 acres + 67 (future permitting in al,i.e.SWB) 104.3 acres Ingham County) - fied) 49.5 acres 54.8 acres 10_981_nnn tons-of-yds Air Yards years
ite Size: Otal area of facility property: Otal area sited for use: (Plan) Otal area permitted:(for dispos Operating:(Licensed & Certi Not excavated: Developed attrent capacity: stimated days open per year: stimated yearly disposal volume:	194.8 acres + 67 (future permitting in al,i.e.SWB) 104.3 acres Ingham County) = fied) 49.5 acres 54.8 acres 10_981_nnn tons of years 260 days
ite Size: otal area of facility property: otal area of facility property: otal area sited for use: (Plan) otal area permitted:(for dispos Operating:(Licensed & Certi Not excavated: Developed uttrent capacity: stimated lifetime: stimated days open per year: stimated yearly disposal volume:	194.8 acres + 67 (future permitting in al,i.e.SWB) 104.3 acres Ingham County) = fied) 49.5 acres 54.8 acres 10_981_nnn tons of years 260 days
ite Size: oral area of facility property: oral area sited for use: (Plan) oral area permitted:(for dispos Operating:(Licensed & Certi Not excavated: Developed attrent capacity: stimated lifetime: stimated days open per year: stimated yearly disposal volume: f applicable) mutal energy production:	194.8 acres + 67 (future permitting in al,i.e.SWB) 104.3 acres Ingham County) - field) 49.5 acres
ite Size: Otal area of facility property: Otal area sited for use: (Plan) Otal area permitted:(for dispose Operating:(Licensed & Certi Not excavated: Developed ourrent capacity: stimated lifetime: stimated days open per year: stimated yearly disposal volume: f applicable) mutal energy production: Landfill gas recovery projects: Waste-to-energy incinerators:	194.8 acres + 67 (future permitting in al,i.e.SWB) 104.3 acres Ingham County) = fied) 49.5 acres 54.8 acres 10.981.000 tons or yds Gate Yards
ite Size: Otal area of facility property: Otal area sited for use: (Plan) Otal area permitted:(for dispose Operating:(Licensed & Certi Not excevated: Developed Attrent capacity: stimated lifetime: stimated days open per year: stimated yearly disposal volume: I applicable) contal energy production: Landfill gas recovery projects: Waste-to-energy incinerators: Includes acres of (sep	194.8 acres + 67 (future permitting in al,i.e.SWB) 104.3 acres Ingham County) = fied) 49.5 acres 54.8 acres 10.981.000 tons or yds Gate Yards 3.2 megawans megawans megawans megawans megawans
ite Size: Total area of facility property: Total area permitted: (Plan) Total area permitted: (For dispose Operating: (Licensed & Certi Not exervated: Developed Internt capacity: Issimated lifetime: Istimated days open per year: Istimated yearly disposal volume: If applicable) Internal energy production: Landfill gas recovery projects: Waste-to-energy incinerators:	194.8 acres + 67 (future permitting in al,i.e.SWB) 104.3 acres Ingham County) = fied) 49.5 acres 54.8 acres 10.981.000 tons or yds Gate Yards 3.2 megawans megawans megawans megawans megawans
ite Size: Otal area of facility property: Otal area of facility property: Otal area sited for use: (Plan) Otal area permitted:(for disposed of the perm	194.8 acres + 67 (future permitting in al,i.e.SWB) 104.3 acres Ingham County) = fied) 49.5 acres 54.8 acres 10.981.000 tons or yds Gate Yards 34 years 260 days 600.000 tons or yds Gate Yards

GRANGER WOOD ROAD LANDFILL



Photo: April 1998



WOOD STREET LANDFILL AND NORTH OF COLEMAN ROAD (CLINTON COUNTY)

A parcel of land on that part of the S½ of the SE¼ and the SE¼ of the SW¼ of Section 34, T5N, R2W, Dewitt Township, Clinton County, Michigan described as: Commencing at the SE corner of said Section 34; thence N 89°44′06″W along the Clinton-Ingham County line 2,636.80 feet to the S¼ corner of said Section 34; thence N 89°42′23″W along said county line 1,318.40 feet to the W 1/8 line; thence N 00°02′55″E along said W 1/8 line 709.91 feet; thence S 89°42′23″E 50.00 feet; thence N 00°01′23″E, 609.94 feet to a point on the S 1/8 line of said Section 34; thence S 89°42′34″E along said S 1/8 line 3,906.15 feet to a point on the East line of said Section 34; thence S 00°04′39″W along said East line 1,318.79 feet to the point of beginning. Also containing NE¼ of SE¼ & E½ of NW¼ of SE¼ of Section 34, T5N, R2W, Dewitt Township, Clinton County, Michigan. The combined parcels containing 179.12 acres more or less.

FACILITY DESCRIPTIONS

-acety Type:	Type III La	Haim								
Facility Name	Daggett Sa	nd & Gr	avel							
County:	Ingham	<u></u>	Location:	Town:	T4N	Range:	R2W	_	Sections(s)	3
Map identifyin	g location incl	uded in At	tachment Section;		Ye	s	x_	_ N	0	
If facility is an wastes:	incinerator or	a transfer	station, list the fina	I disposal	site and loca	tion for inciner	ator ash	or trai	nsfer station	
	Public	x	Private		Owner: Dag	gett Sand 8	k Grave	i, Inc	<u>. </u>	
Operating Sta	tus (check)				Waste Type	s Received (ch	neck all ti	hat ap	ply)	
<u> </u>	open					residential				
	closed					commercial				
<u> </u>	licensed					industrial				
· " · · · · · · · · · · · · · · · · · · 	unlicensed				<u> </u>	construction		lition		
	construction					contaminate				
	open, but clo	sure				specials was	stes *			
	pending					other:				
		,	ing a specific list a				-			
Site Size:										
	acility property	y :				10	acres			
Total area site						6.4	acres			
Total area per	mitted:					2-3	acres			
Operating: Not excavate	ed:						acres acres			
Current capac	city:					60,000	_ tons	Of .	yds³	
Estimated life	time:					7	years			
Estimated day	уѕ орел рег ує	ar:				250	days			
Estimated year	ariy disposal v	olume:				7,500	_tens	or	yds ³	
(if applicable)										
Annual energy	y production:									
Landfill gas	recovery proje	cts:					_megaw			
Waste-to-en	ergy incinerate	ors:					_megaw	ratts		

FACILITY DESCRIPTIONS

acility Type:	Type li Landfili						
Facility Name:	: Pitsch Sanitary L	andfill					
,			· · ·		(see attache	d)	
County:	lonia	Location:	Town:		Range:	Sections(s)	
Map identifyin	g location included in	Attachment Section:	_	<u> </u>	Yes	No	
tf facility is an wastes:	incinerator or a transf	er station, list the final	disposal site	and l	ocation for incinerator as	sh or transfer station	· .
	Public <u>x</u>	Private	Ov	wner: _	Pitsch Companies		
X X X X X X X X X X X X X X X X X X X	open closed licensed unlicensed construction permit open, but closure pending	uding a specific list and Street Sweepin	d/or condition	X X X X	ypes Received (check at residential commercial industrial construction & den contaminated soils specials wastes other:	nalition	
Site Size: Total area of fit Total area site Total area pen Operating: Not excavate	mitted:				148.44 acres 28.36 acres 78.44 acres 9.87 acres 70 acres	5 5 5	After Proposed Expansion 300 acres 140 acres 140 acres 10 acres 40 acres
	•				40,000 tons .5 6 mo 307 days 83,000 tons		2,308,225 tons 20+ years
=	y production: recovery projects: ergy incinerators:				N/A N/A		

Have a pending construction permit that will extend landfill life another 30 years.

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DEQ.

Michigan Department of Environmental Quality Waste Management Division

SOLID WASTE DISPOSAL AREA OPERATING LICENSE

This license is issued under the provisions of Part 115 Solid Waste Management of the Natural Resources and Environmental Protection Act, 1994 PA 451, MCL 324.11501 et seq. (Part 115), to authorize the operation of the solid waste disposal area (Pacificy) in the State of Michigan, This license does not obviate the necessity of obtaining other clearances and permits as may be required by state law.

FACILITY NAME: Pitsch Sanitary Landfill

GRANTED TO: Pitsch Sanitary Landfill, Inc.

TYPE OF FACILITY: Type II Landfill

FACILITY ID: 34-000016

COUNTY: Ionia

LICENSE NO. 8456

ISSUE DATE: May 22, 1997

EXPIRATION DATE: May 22, 1999

FACILITY DESCRIPTION:

The Pitsch Sanitary Landfill consists of 78.44 acres located in the N 1/2 of the

NE 1/4 of Section 7, T8N, R7W, Orleans Township, Ionia County, Michigan, as

identified in Attachment A and fully described in this license.

AREA AUTHORIZED FOR DISPOSAL OF SOLID WASTE: Phases III and IV

RESPONSIBLE PARTY TO CONTACT: Mr. Gary Piesch, Vice President

Pitsch Sanitary Landfill, Inc.

675 Richmond, N.W.

Grand Rapids, Michigan 49504

616-363-4895

TRST OPERATING LICENSE: This License No. 8456 is the first license issued for Phase IV.

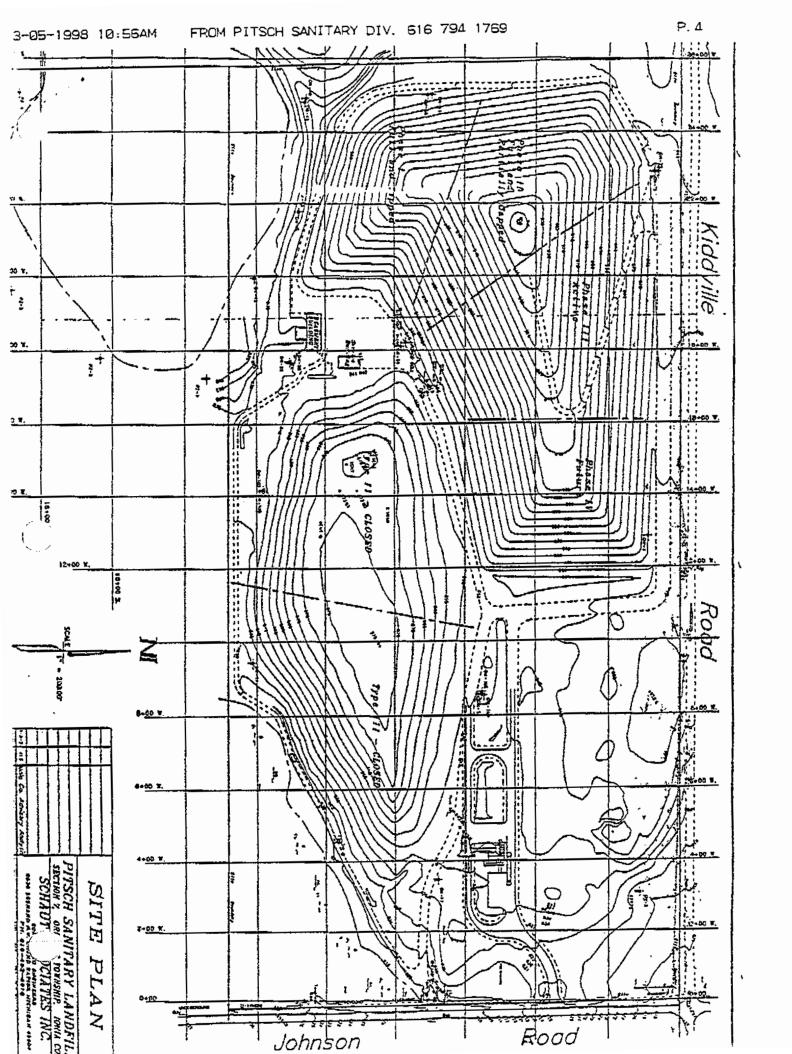
E RENEWAL OPERATING LICENSE: This License No. 8456 supersedes and replaces Solid Waste Disposal Area License No. 8061 issued to Pitsch Wrecking Company on April 12, 1993, as it pertains to Phases I through III

This license is subject to revocation by the Director of the Michigan Department of Environmental Quality (Director) if the Director finds that the disposal area is not being constructed or operated in accordance with the approved plans, the conditions of a permit or license, this act, or the fules promulgated under this act. Failure to comply with the terms and provisions of this license may result in legal action leading to civil and/or criminal penalties as stipulated in Part 115. This license shall be available through the licensee during the entire effective date and remains the property of the Director.

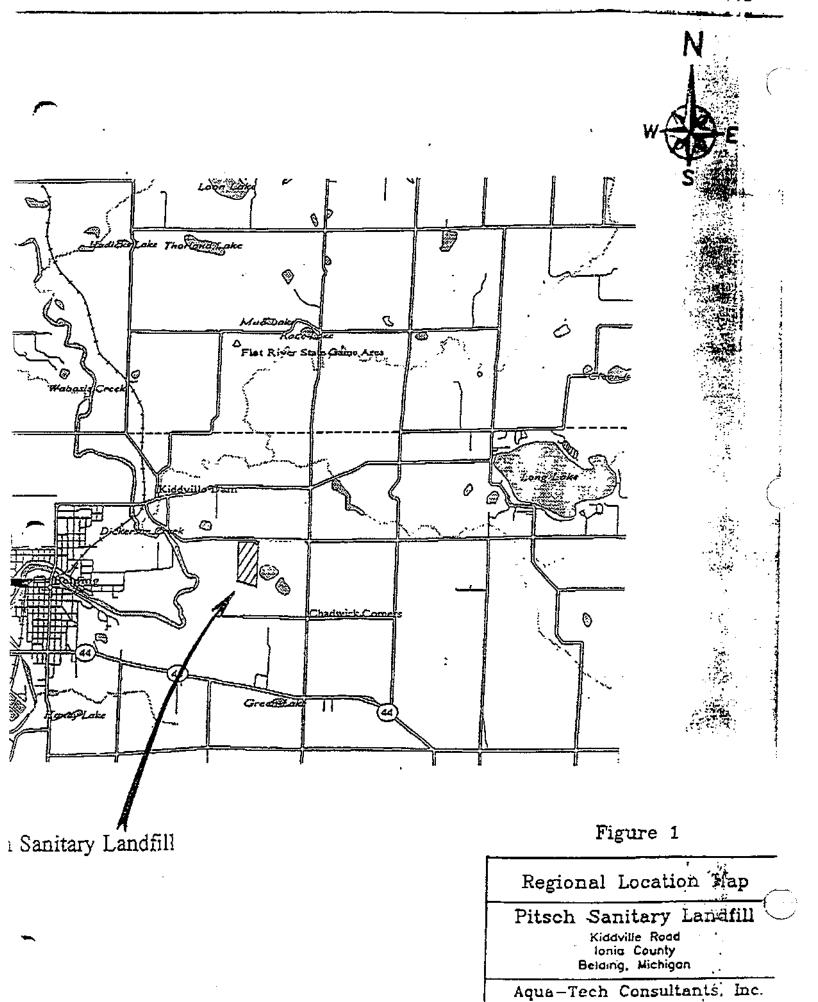
THIS LICENSE IS NOT TRANSFERABLE.

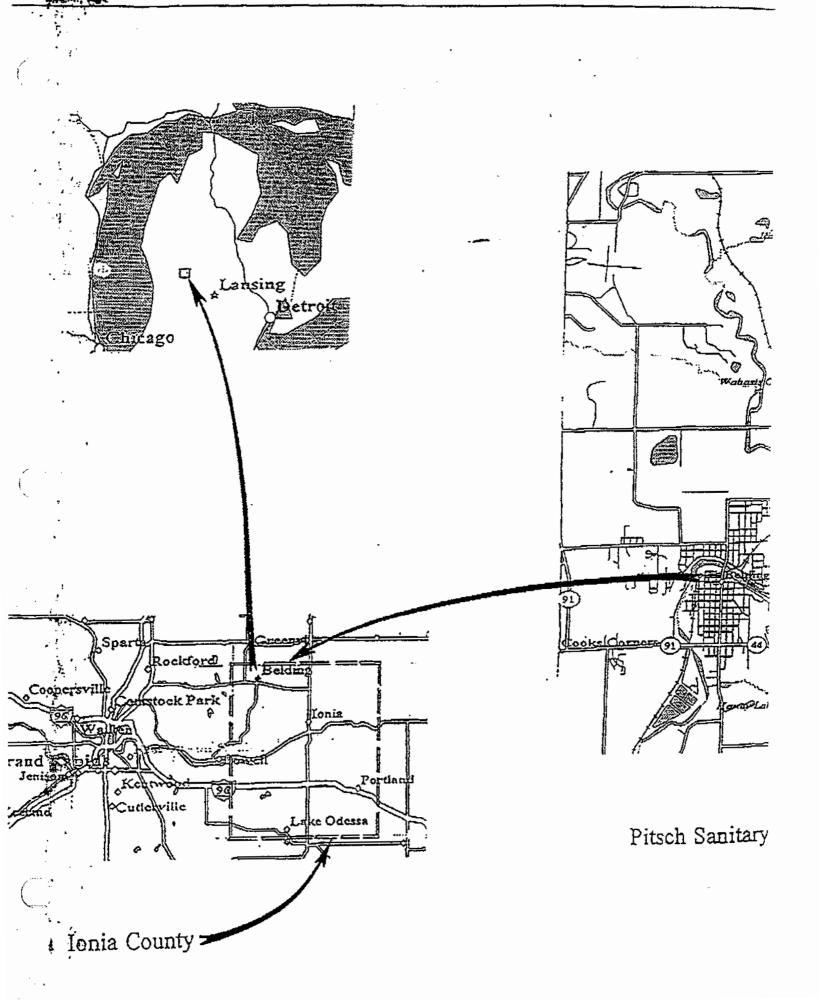
Joan At. Peck, Acting Chief, Solid Waste Program Section

Waste Management Division



1336 Scribner NW + 2





FACILITY DESCRIPTIONS

Facility Type: Solid Waste	Transfer Station
Facility Name: Eco Systems	Transfer Station - Waste Management
County: Ionia	Location: Town: 7N Range: 6W Section(s): 32
Map identifying location included in A	ttachment Section: X Yes No
station wastes: *See Below	r station, list the final disposal site and location for incinerator ash or transfe
Public X Private Owner:	Waste Management of Michigan Midwest
	Waste Types Received (check all that apply) x residential x commercial x industrial x construction & demolition contaminated soils x special wastes * x other: Recyclables ing a specific list and/or conditions: s, metal, plastic, newspaper, cardboard rinding, sludges. Demolition Processing
Site Size: Total area of facility property: Total area sited for use: Total area permitted: Operating: Not excavated: Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume:	12.21 acres 12.21 acres 12.21 acres 12.21 acres 12.21 acres N.A. acres N.A. N.A. N.A. 300 days N.A. N.A.
(if applicable) Annual energy production: Landfili gas recovery projects: Waste-to-energy incinerators:	N.A. megawatts N.A. megawatts

09/30/89 THU 12:02 FAX 616 538 7710

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Michigan Department of Environmental Quality Waste Management Division SOLID WASTE DISPOSAL AREA OPERATING LICENSE

This license is issued under the provisions of Part 115 Solid Waste Management of the Natural Resources and Environmental Protection Act, 1994 PA 451, MCL 324.11501 of seq. (Part 115), to authorize the operation of the solid waste disposal area (Facility) in the State of Michigan. This license does not obviate the necessity of obtaining other clearances and permits as may be required by state law

FACILITY NAME: Eco Systems Transfer Station

GRANTED TO: Waste Management of Michigan - Midwest

TYPE OF FACILITY: Solid Waste Transfer Station

FACILITY ID: 34-000003

COUNTY: Ionia

LICENSE NUMBER: 8621

ISSUE DATE: May 19, 1999

EXPIRATION DATE: May 19, 2001

FACILITY DESCRIPTION: The Eco Systems Transfer Station is located in the NW 1/4 of the NE 1/4 of

Section 32, T7N, R6W, Ionia Township, Ionia County, Michigan, as fully

described in this license.

AREA AUTHORIZED FOR THE ACCEPTANCE AND/OR PLACEMENT OF SOLID WASTE: Identified

in Attachment A of this license.

RESPONSIBLE PARTY TO CONTACT: Mr. Keith Hester, District Manager

Waste Management of Michigan - Midwest

1668 Porter Street, S.W.

Grand Rapids, Michigan 49509

616-538-1921 (Ext. 120)

☐ FIRST OPERATING LICENSE: N/A

RENEWAL OPERATING LICENSE: This License Number 8621 supersedes and replaces Solid Waste Disposal Area License Number 8441 issued to Waste Management of Michigan - Midwest on February 27, 1997.

This ileanse is subject to revocation by the Director of the Michigan Department of Environmental Quality (Director) if the Director finds that the disposal area is not being constructed or operated in accordance with the approved plans, the conditions of a permit or ileanse, this act, or the rules promulgated under this act. Failure to compty with the terms and provisions of this ileanse may result in legal action teading to civil and/or criminal penalties as ellipulated in Part 115. This license shall be available through the licenses during the entire effective date and remains the property of the Director.

THIS LICENSE IS NOT TRANSFERABLE.

Joan H. Peck, Chief, Solid Waste Program Section

Waste Management Division

FACILITY DESCRIPTIONS

Facility Type:	Recycle and	d Dispo	sal Facility - No	n-hazar	dous				
Facility Name:	Venice Pari	Recyc	ing and Dispos	al Facili	ty				
County:	Shiawassee	•	Location:	Town	7N	Range:	<u>4</u> E	Sections(s)	27
Map identifying	g location includ	ded in Att	achment Section:		<u>x</u>	Yes		No	
If facility is an wastes:	incinerator or a	transfer	station, list the fina	il disposal	site and	location for incinera	ator ash or t	ransfer station	
	Public	x	Private		Owner:	Waste Manager	nent of M	ichigan, Inc.	
Contaminated	open closed licensed unlicensed construction p open, but clos pending of special waste	ure es, includi s, filter c		es,coal a	x x x x x x x ditions:	Types Received (charesidential commercial industrial construction contaminated specials was other. Non-	& demolition d soils stes * hazardous containing	iguids for soli	ed
Total area site Total area pen Operating: Not excavate Current capac Estimated lifet Estimated day	mitted: d: ity:	с				331 80 69 41 2.5 1,300,000 2.5 286 526,000	acres acres acres acres acres acres done days	. 3	maining
	production: ecovery project ergy incinerator					12,500	_megawatt _	s ·	

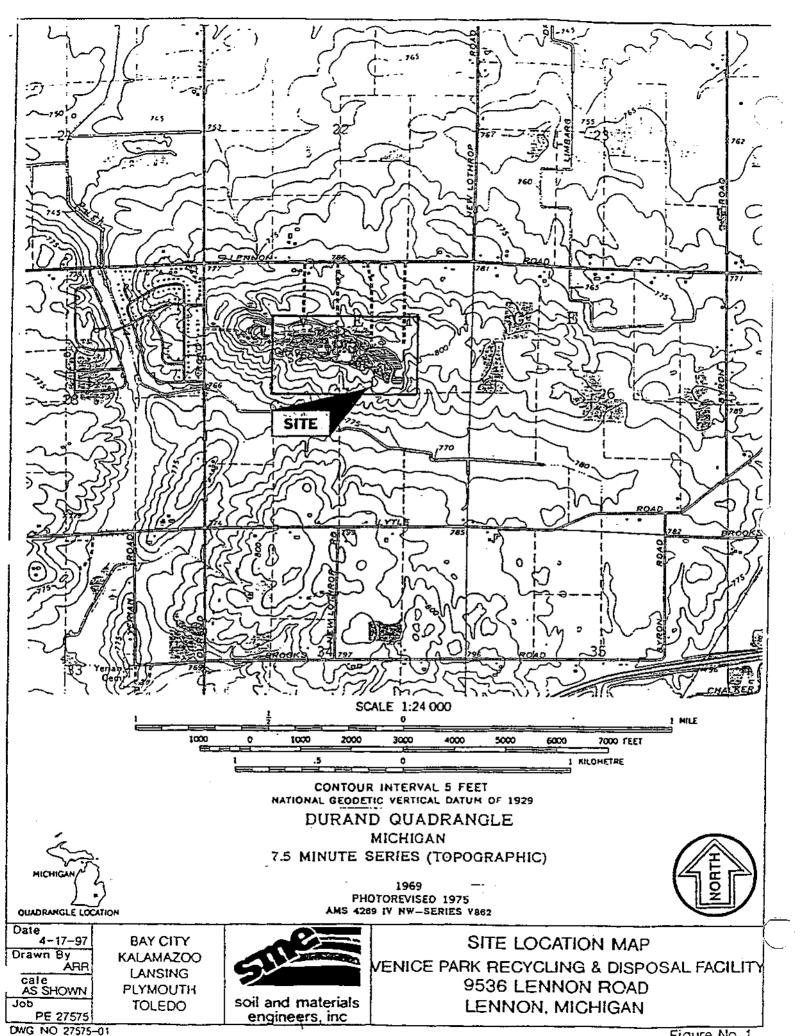
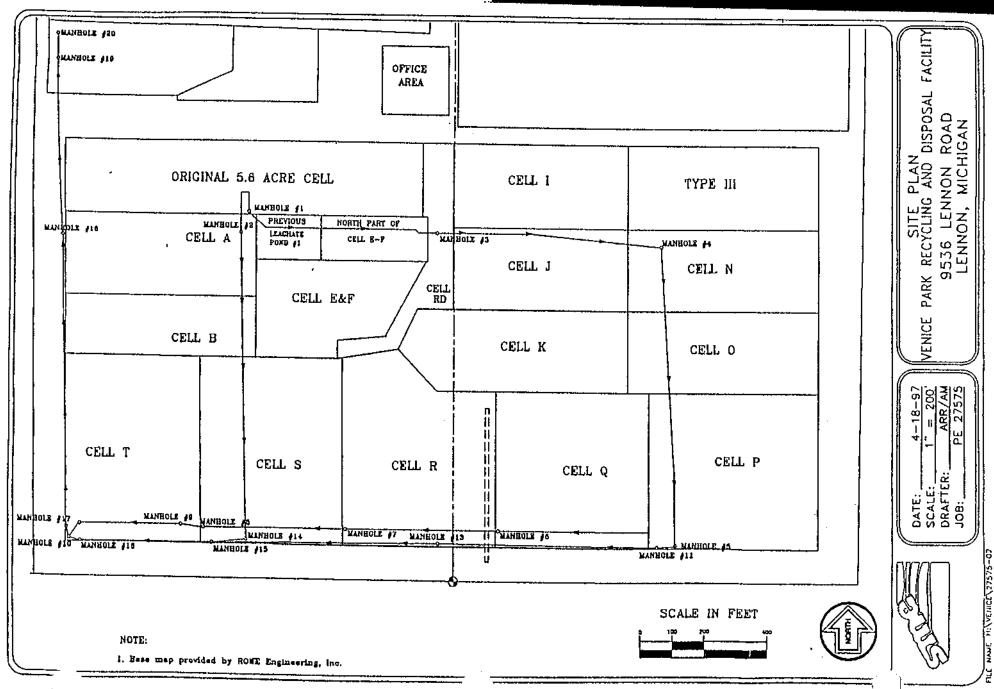


Figure No. 1



_√ure No.

3.3 CURRENT COLLECTION SYSTEM

This section outlines Clinton County's existing waste management system, addressing programs for the collection of solid waste, recyclables, yard waste, household hazardous waste, pesticides, and other items. The chart in Appendix A-2c identifies which municipalities offer each type of service.

Solid Waste

The county currently generates between 95,000 - 110,000 cubic yards (approximately 30,000 - 38,000 tons) of solid waste per year requiring disposal.

Waste collection services are provided in two forms; through individual subscription with a private hauling company, or a municipally franchised contract for service. In franchise situations the municipality contracts, on behalf of its residents, with a private hauling company for waste (and often other) collection services. The following municipalities currently franchise collection services for the listed items:

- City of DeWitt trash, curbside recycling
- City of St. Johns trash, curbside recycling
- Village of Ovid trash, curbside recycling
- · Village of Maple Rapids trash
- Village of Elsie trash
- · Watertown Charter Township curbside recycling

Waste collection services throughout the county are provided exclusively by private hauling companies. A limited number of residents take their waste directly to a landfill or bury household waste on their own property. Because markets continue to be somewhat competitive, residents and municipalities have some choice over the types and costs of services they want provided.

Franchised services offer advantages, including cost-effectiveness, environmental efficiencies, and a broader range of services. Some private service providers, however, contend that franchising artificially depresses pricing, preferring to contract directly with homeowners.

The following companies are currently doing business in Clinton County:

- Allied Disposal Company
- Granger Container Service
- Pick-A-Dilley
- Waste Management

- Sunrise Disposal (a subsidiary of Republic Industries)
- Daggett Container Service (Construction/demolition containers only)

Waste hauling companies in Clinton County may dispose of residential, commercial or industrial waste at any of four landfills: the Granger Grand River Landfill in Watertown Township; Granger Wood Street Landfill in DeWitt Township; Pitsch Landfill in Ionia County and Venice Park Landfill (currently owned by Waste Management, Inc.) in Shiawassee County. Individuals may take their own waste to the Granger facility located in Watertown Township, but not the facility in DeWitt Township; they may also take their waste to either of the other two facilities located in Shiawassee and Ionia counties. Construction and demolition debris may be disposed of at Daggett Recycling's Type III landfill in Lansing or any of the Type II facilities.

Recycling

The County recovers more than 3,700 tons of household recyclables per year. Residents receive recycling services in one of three ways: subscription curbside recycling, municipal (franchised) curbside collection, and drop-off sites. Businesses may contract for recycling collection or they may use the drop-off sites. None of the haulers operating in Clinton County provide subscription curbside collection to all parts of the County. This is particularly the case in areas having low population densities. Curbside recycling is offered to residents through franchise services in the cities of St. Johns and DeWitt, the Village of Ovid, and Watertown Township.

Through the Solid Waste Alternatives Grant Program, the County provides drop-off recycling services where private recycling services are lacking. The County runs four sites in the following communities: Village of Maple Rapids, Village of Fowler, Pewamo/Westphalia, and Eagle Township. Over 250 tons of recyclables are processed annually from these sites.

The St. Johns Lion's Club provides a 24-hour drop-off recycling site. The County provides a subsidy to the site, but it continues to be managed by the Lions Club. Though the site is located within a city that offers curbside recycling, it services outlying areas that do not have such services available. It processes over 500 tons of recyclables annually.

Granger also operates a 24-hour, self-serve recycling drop-off site on Wood Rd. in DeWitt Twp. The site draws from Ingham and Eaton Counties, as well as Clinton County. Based upon a survey conducted in 1994, approximately 28.5% of recycled materials accepted at that site come from Clinton County. Data contained in Appendix A-2e provides details. Strategic location of the various sites throughout the county provides good coverage and substantial opportunities for recycling by residents (Selected System, Part 5.4). The City of DeWitt and City of St. Johns offer curbside services as a part of their franchised arrangements.

14

New Master Plan doc 12403/29

Information regarding services, locations, materials collected and operation times are kept current and published in quarterly issues of the *Garbage Gazette*. See Appendix A-2c.

Yard Waste

Using state level statistics, Clinton County generates approximately 2,810 tons of yard waste. Under Part 115, yard waste may not be landfilled in Michigan. National and state level statistics estimate that this reduces the quantity of waste going to disposal facilities by 12 to 14%. Clinton County uses 7%-8% as its generation rate because of the large community of farmers who have been disposing of yard waste and other compostables on their own land for years. Some yard waste is collected through municipal services and delivered to compost facilities owned and run by private companies or municipalities. Citizens may take their own yard waste to such facilities, or compost yard waste in backyard compost piles as long as their composting practices do not cause a nuisance. Education programs urge the establishment of backyard compost piles and encourage citizens to leave grass clippings on lawns.

Household Hazardous Wastes

The County periodically provides household hazardous waste (HHW) collection services for citizens. Initially, the county provided dedicated one-day HHW collections for all county residents. One year, the county cosponsored a HHW collection with the City of St. Johns. Most recently, the county accepted HHW materials as part of a larger collection program called Dump Your Junk Day (see Special Collections on next page). The County contracts for staffing of such days. The City of St. Johns still offers periodic collections of household hazardous wastes for its residents. However, instead of offering a one day collection, the City allows residents to bring materials to the City Waste Water Treatment Facility for a period of days prior to pickup by a hazardous materials hauling and handling company.

A battery collection program consisting of 34 drop-off sites throughout the County was offered from 1992 to 1997. The purpose of the program was to reduce the amount of mercury disposed of in local landfills. Re-evaluation of the program revealed, however, that the program did not achieve desired results; it is estimated that the program captured between 1% and 5% of the batteries generated. This, coupled with altered requirements pertaining to landfill construction, new manufacturing practices that render batteries less toxic, and the fact that much of the waste being disposed of in this county originates from other counties which may or may not have such collections, did not justify the costs (approximately \$10,000 per year) associated with the program. It has been discontinued.

Pesticides

Clinton County does not provide ongoing services to collect unwanted pesticides. Ionia County, however, runs a facility whose disposal costs are

funded by the Department of Agriculture where Clinton County residents may take their unwanted pesticides. Prior to development of this facility, Clinton County did cooperatively run a Clean Sweep collection of pesticides with four neighboring counties, also funded by the Michigan Department of Agriculture. Because of the availability of the Ionia facility, it is not anticipated that the County will develop additional programming.

Special Collections

<u>Dump Your Junk Day</u>: Once every other year, the County runs Dump Your Junk Day where residents may bring items that pose disposal problems to a central collection site. Items collected include: scrap steel, appliances, tires, household hazardous waste, junk, useable second hand furniture and household items.

Municipal Junk Collections: Dewitt Charter Township, Bath Charter Township, City of St. Johns, Village of Maple Rapids, Village of Fowler, Essex Township and Watertown Township have run special collections for large hard-to-dispose-of items. Such collections have been funded in part through the County's local grant program. In years when the county does not run Dump Your Junk Day, local grant funds are increased. Local projects like this allow municipalities to tailor collections to local needs.

<u>Text Book Recycling Collection</u>: The County provides an annual text book collection for many of the county's schools. Schools collect books in boxes and County personnel collect and deliver them to a recycling company for processing.

Junk Vehicles: During 1997, the County offered a pilot project to help citizens get rid of junk vehicles. The project was relatively simple in design, using local towing companies to transport them to scrap dealers. The County offered residents a coupon they used as payment for tow companies. The companies received a fixed payment for each coupon submitted to the County. In this manner, citizens were guaranteed free disposal of their vehicle regardless of towing distance to the scrap yard.

Waste Reduction

Waste Generation at the Curb: The City of St. Johns is the only municipality within the County to provide volume based waste collection to residents. When this system was first implemented, even without curbside recycling, the waste generation rate fell by nearly 40%. When St. Johns supplemented the drop off recycling program with curbside recycling, the amount of waste collected in St. Johns fell nearly 50% and has remained at this low level.

Some haulers provide volume-based (pay per bag) collection service if requested by individual customers. Haulers note, however, that most individual subscribers tend to prefer a 'cart' system, based upon the convenience of a rigid, wheeled container. Such services are not priced purely

according to volume or weight, though most haulers do offer larger and smaller sized carts to customers at variable rates.

<u>Purchasing</u>: Some educational efforts have been initiated under the previous Plan, primarily through the *Garbage Gazette* and local press releases, that challenge residents to consider the quality of items they purchase, encourage them to repair rather than throw away and to consider the impacts of packaging on garbage generation.

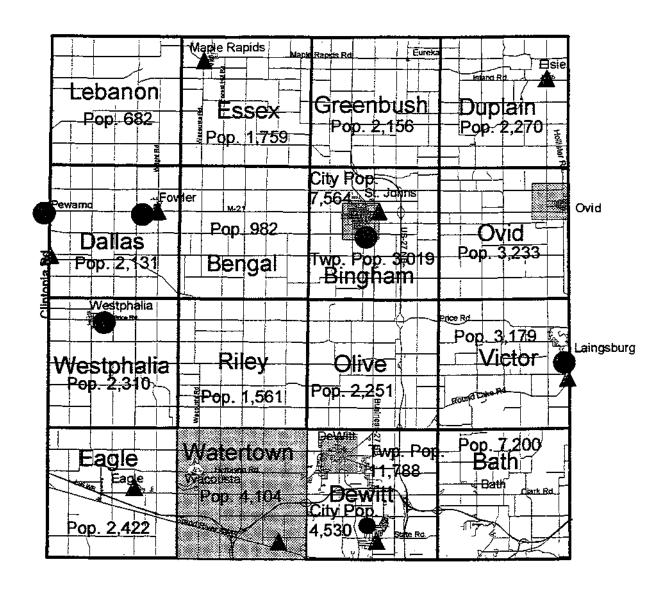
Construction And Demolition

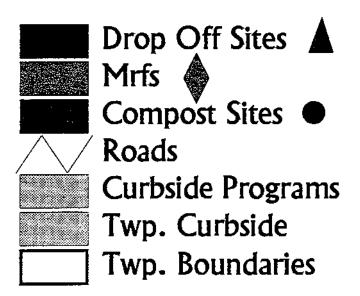
Daggett Sand and Gravel, Inc. houses a materials recovery facility to recover construction and demolition materials. As the southern part of Clinton County continues to develop, such a facility and service will become increasingly important. Currently, Daggett receives about 5,714 cubic yards of material from Clinton County of which they recover approximately 65%. They dispose of the 2,000 remaining yards (1997 data).

The attached map shows the location of various recycling services. Daggett's facility is also indicated on the lower portion of the map.

Other disposal facility owner/operators may also selectively recycle C&D materials brought to their facilities.

Clinton County Recycling Programs





3.4 DEFICIENCIES AND PROBLEMS

Data Collection

One of the most difficult challenges facing the County is obtaining credible data with which to measure impact and success of programs. For example, the lower tier of the County is experiencing considerable growth, including numerous new housing developments. We suspect, but do not know, that this is creating a marked increase in landfilled C&D debris. The County does not know what portion of landfilled Clinton County waste is residential as opposed to C&D or commercial/industrial waste.

The MDEQ's 1997 data report separates waste into Type II and Type III. For that year, separations in reporting were made by facilities in this County and others outside the County who received Clinton County waste. Such information at least provides grounds for speculating about how much waste may be residential and commercial versus C&D waste or Non-Hazardous Industrial Wastes. However, 1998 data does not provide any differentiation among Type II and III wastes. The ability to aggregate good data with which to provide a comprehensive picture of county waste generation, was a deficiency and challenge for the 1990 Plan, and remains a challenge for this Plan.

Collection System

The population of Clinton County may increase substantially over the next five years, with densities in some rural areas growing considerably. Even now, a number of pockets of dense development exist in the county, such as subdivisions in Victor, Watertown and Bath Townships. Currently, these developments do not franchise waste collection services, resulting in a greater frequency of truck traffic, higher costs, less comprehensive services and higher environmental impact.

Where densities are very low, residents may have a limited choice of service providers.

Landfill System

Residents located in the DeWitt/Bath area of the county have expressed concern over being unable to use the landfill located in DeWitt Township to dispose of their solid waste. Only the landfill located in Watertown Township will accept waste from individuals.

Waste Reduction

Only one community in Clinton County provides a waste collection system that utilizes Pay as You Throw (PAYT) pricing. PAYT pricing systems are one of the most effective strategies for reducing the amount of waste disposed of by residents; residents reduce their waste when they know they have to

pay for its disposal based upon the quantity they generate. This strategy has proven effective regardless of whether or not curbside recycling is also offered. Residents, however, appear to prefer a cart system over the use of bags, making PAYT programs more costly and challenging to implement.

Recycling and Purchasing

Markets for recycled materials continue to be depressed. This negatively affects the delivery of both drop-off and curbside recycling by depressing materials revenue. With the exception of a positive spike in pricing in 1995, the market for materials are so low they do not offset the cost of collection, processing and shipping. As a result, private haulers - unable to collect sufficient fees from households to cover their costs - are considering the elimination of curbside services unless contracted for by municipalities or businesses.

The largest roadblock to successful markets continues to be depressed demand for products made with post consumer materials. Federal subsidies to virgin materials industries, weak corporate and governmental recycled content purchasing practices, and depressed economies in Asian and European countries are issues that dominate this trend.

Household Hazardous Waste

Residents are still in need of methods for disposing of household hazardous waste materials. The County does not have a permanent collection facility, which is an inconvenience, particularly for families moving out of the area.

The County has conducted special one-day collections in the past, however, participation is generally low while costs high. The County has reduced its frequency of collections to once every one or two years. There is a need to provide such a service less expensively and more conveniently.

In 1991, the County applied for, and was awarded, a Solid Waste Alternatives Program (SWAP - administered then under the MI Department of Natural Resources) grant to fund a permanent household hazardous waste facility. However, it became apparent that ongoing overhead costs would be substantial and not proportionate to the needs of the County. Therefore, the County declined the funding.

Financing for Implementation and Enforcement

In 1990, the County authorized the establishment of a user fee on disposal areas located in Clinton County through the Ordinance, implemented through the 1990 Plan. However, this levy was not used. Instead, two agreements were developed between the County and the landfill owner/operator, whereby the landfill owner/operator would collect a user fee from landfill users and pass it through to the County. This funding mechanism was challenged by the landfill owner/operator, however, resulting

in litigation. The new Plan formalizes a funding method that is less vulnerable to such actions.

Education and Outreach

The prior Plan focused extensively on the process of recycling; the challenge of this Plan is to go a step further and aggressively promote environmentally preferable purchasing practices. Messages regarding the purchase of products with less packaging, packaging that is *truly* recyclable and which are made from recycled content is complex. It needs to be delivered to a wide variety of audiences.

New efforts must be initiated which reach general contractors, builders and architects to assure that, as the county builds, it incorporates the purchase and use of recycled content materials to the extent that it is economically feasible. Further, waste materials from new construction is recyclable. With a C&D recycling facility located in the county, it is appropriate to direct more of these waste materials to recycling.

Relationship Between Disposal Facilities and the County

Through the 1990 Plan, the regulatory and operational relationship between the County and disposal facility owner/operators located within the County were addressed through negotiated agreements. Over the course of time, however, these agreements became the victims of differing interpretations, and deteriorated, expired or fell into litigation. As a result, standards of operation, including but not limited to, noise, odor, litter, mud-tracking, annual caps, and hours of operation were left unaddressed. This Plan seeks to remedy such weaknesses by establishing minimum operational standards for any disposal facility located within the County. Agreements are still preferred and not precluded, but should agreements fail, a baseline standard is provided for in the Plan, and may be implemented through the Plan itself or the approved Solid Waste Ordinance.

3.5 INFORMATION SOURCES

The following sections derive data and information from a variety of sources, most of which are specifically footnoted, and are one or a combination of the following:

- Michigan Department of Environmental Quality Report of Solid Waste Landfilled in Michigan
- Michigan Information Center Internet Website: www.state.mi.us/DMB/mic
- · Clinton County Equalization Department
- Clinton County Cooperative Extension

- Environmental Protection Agency "Measuring Recycling A Guide for State and Local Governments"
- Clinton County Department of Waste Management data on Recycling
 Data in Clinton County is submitted voluntarily from recycling service providers

Data collected pertains primarily to residential recycling activity

- Various Solid Waste Management Facility Owner/Operators
- Clinton County Geographic Information Service (GIS) System

Where inadequate information exists, projections are made with the assistance of base figures and trend experiences of other municipalities.

3.6 DEMOGRAPHICS

Population projections

- · · · · · · · · · · · · · · · · · · ·								
Township or	1990	1990	% Of	1997	% Of	Projec	ted Pop	ulation
Municipality	Population*	Households	Total	Proj Pop**	Total	2000	2005	2010
Countywide	57,883	20,959		63,087		65,269	69,075	73,104
Bath Township	6,387	2,396	11.0%	7,200	11.4%	7,449	7,883	8,343
Bengal Township	989	313	1.7%	982	1.6%	1,016	1,075	1,138
Bingham Township	2,546	838	4.4%	3,019	4.8%	3,123	3,306	3,498
Dallas Township	1,234	327	2.1%	1,228	1.9%	1,270	1,345	1,423
DeWitt City	3,964	1,347	6.8%	4,530	7.2%	4,687	4,960	5,249
DeWitt Township	10,448	4,192	18.1%	11,788	18.7%	12,196	12,907	13,660
Duplain Township	1,278	442	2.2%	1,308	2.1%	1,353	1,432	1,516
Eagle Village	120	42	0.2%	125	0.2%	129	137	145
Eagle Township	2,031	704	3.5%	2,297	3.6%	2,376	2,515	2,662
Elsie Village	957	378	1.7%	962	1.5%	995	1,053	1,115
Essex Township	997	322	1.7%	1,047	1.7%	1,083	1,146	1,213
Fowler Village	912	339	1.6%	903	1.4%	934	989	1,046
Greenbush Township	2,028	662	3.5%	2,156	3.4%	2,231	2,361	2,498
Lebanon Township	644	207	1.1%	628	1.0%	650	688	728
Maple Rapids	680	263	1.2%	712	1.1%	737	780	825
Olive Township	2,122	764	3.7%	2,251	3.6%	2,329	2,465	2,608
Ovid Village	1,442	570	2.5%	1,501	2.4%	1,553	1,643	1,739
Ovid Township	1,663	572	2.9%	1,782	2.7%	1,792	1,896	2,007
Riley Township	1,543	509	2.7%	1,561	2.5%	1,615	1,709	1,809
St. Johns City	7,284	2,870	12.6%	7,564	12.0%	7,826	8,282	8,765
Victor Township	2,784	936	4.8%	3,179	5.0%	3,289	3,481	3,684
Watertown Township	3,731	1,286	6.4%	4,104	6.5%	4,246	4,494	4,756
Westphalia Village	780	294	1.3%	777	1.2%	804	851	900
Westphalia Township	1,319	386	2.3%	1,533	2.4%	1,586	1,679	1,776

^{* 1990} Data - Census

^{**1997} Total Population derived from Census Data; Municipal proportions of data derived from Tri-County Regional Planning

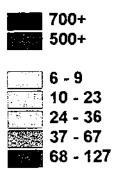
PROJECTED WASTE GENERATION

					Pro	jections		
Township or Municipality	1997 Proj Pop*	1997 Waste Generation	lž	2000 Waste Generation		2005 Waste Generation	2010 Proj. Pop.	2010 Waste Generation
Countywide	63,087	40,141	65,269	41,772	69,075	45,702	73,104	50,235
Bath	7,200	4,608	7,449	4,767	7,883	5,203	8,343	5,757
Bengal	982	628	1,016	650	1,075	710	1,138	785
Bingham	3,019	1,932	3,123	1,999	3,306	2,182	3,498	2,414
Dallas	1,228	786	1,270	813	1,345	887	1,423	982
Dewitt	4,530	2,899	4,687	2,999	4,960	3,274	5,249	3,622
DeWitt Township	11,788	7,544	12,196	7,805	12,907	8,519	13,660	9,425
Duplain Township	1,308	837	1,353	866	1,432	945	1,516	1,046
Eagle	125	80	129	83	137	90	145	100
Eagle Township	2,297	1,470	2,376	1,521	2,515	1,660	2,662	1,837
Elsie	962	616	995	637	1,053	695	1,115	769
Essex Township	1,047	670	1,083	693	1,146	757	1,213	837:
Fowler	903	578	934	598	989	653	1,046	722
Greenbush Township	2,156	1,380	2,231	1,428	2,361	1,558	2,498	1,724
Lebanon Township	628	402	650	416	688	454	728	502
Maple Rapids	712	456	737	471	780	515	825	569
Olive Townshp	2,251	1,441	2,329	1,490	2,465	1,627	2,608	1,800
Övid	1,501	961	1,553	994	1,643	1,085	1,739	1,200
Ovid Township	1,732	1,108	1,792	1,147	1,896	1,252	2,007	1,385
Riley Township	1,561	999	1,615	1,034	1,709	1,128	1,809	1,248
St. Johns	7,564	4,841	7,826	5,008	8,282	5,466	8,765	6,048
Victor Township	3,179	2,035	3,289	2,105	3,481	2,297	3,684	
Watertown Township	4,104	2,627	4,246	2,717	4,494			
Westphalia	777	497	804	514	851	561	900	
Westphalia Township	1,533	981	1,586	1,015	1,679	1,108	1,776	1,226

Annual per capita waste generation rate = 997: .64 Tons/person 2005: .66 Tons/person 2010: .69 Tons/person

Clinton County Household Densities Per Square Mile

LEBANON	ESSEX	GREENBUSH	DUPLAIN
		St. Johns	
DALLAS	BENGAL	BINGHAM	OVID
WESTPHALIA	RILEY	OLIVE	VICTOR
3			24
EAGLE	WATERTOWN		BATH



3.7 LAND USE AND ECONOMIC BASE

		%	6 LA	ND U	JSE			% E(ON	OMI	Ċ .	
Township or Municipality	Agricultural	Commercial	Industrial	Residential	Timber Cutover	Developmental	Agricultural	Commercial	Industrial	Residential	Timber Cutover	Developmental
Countywide	17%	5%	1%	76%	0%	1%	15%	9%	2%	74%	0%	1%
Bath Township	4%	3%	1%	91%	0%	1%	3%	9%	0%	87%	0%	1%
Bengal Township	58%	0%	0%	40%	0%	0%	54%	1%	0%	46%	0%	0%
Bingham Township	26%	5%	1%	57%	0%	11%	20%	18%	1%	56%	0%	4%
Dallas Township	36%	6%	0%	58%	0%	0%	37%	4%	0%	59%	0%	0%
DeWitt City	0%	4%	0%	95%	0%	1%	0%	5%	0%	93%	0%	2%
DeWitt Township	2%	7%	1%	88%	0%	1%	2%	19%	1%	78%	0%	1%
Duplain Township	28%	6%	1%	65%	0%	0%	37%	2%	2%	59%	0%	0%
Eagle Township	26%	2%	2%	68%	0%	2%	19%	3%	0%	76%	0%	1%
Essex Township	32%	3%	0%	64%	0%	0%	39%	2%	0%	59%	0%	0%
Greenbush Township	28%	2%	2%	64%	0%	3%	27%	5%	1%	65%	0%	1%
Lebanon Township	66%	0%	0%	33%	0%	0%	77%	0%	0%	23%	0%	0%
ive Township	29%	1%	1%	68%	0%	1%	25%	1%	0%	73%		0%
/id Township	21%	6%	1%	71%	0%	0%	26%	6%	4%	65%	0%	0%
Riley Township	40%	0%	0%	60%	0%	0%	36%	0%	0%	63%	0%	0%
St. Johns City	0%	9%	2%	88%	0%	0%	0%	17%	4%	79%	0%	0%
Victor Township	11%	1%	0%		0%	0%	12%	1%	0%	87%	0%	0%
Watertown Township	12%	5%	3%	79%	0%	. 1%	9%	9%	7%	73%	0%	2%
Westphalia Township	35%	4%	0%	61%	0%	0%	32%	2%	0%	66%	0%	0%

Data Source: 1999 Clinton County Equalization Department Report

Both the allocation of land use and economic base figures indicate the importance of Agriculture to land use planning, service considerations and relative worth (SEV) of preservation of such land. It is clear that such primary land useage and land values focus on residential and agricultural property.

3.8 LAND DEVELOPMENT

The maps on the following page indicates current land use. The County has the responsibility for planning and zoning functions except in the cities of St. Johns and DeWitt, as well as Watertown, DeWitt and Bath Charter Townships. With the exception of St. Johns, the other geographic areas are contiguous to metropolitan Lansing, East Lansing and Okemos. Not surprisingly, suburban development has escalated most dramatically in these areas and will continue to do so.

Completion of US-27 through the center of Clinton County may also bring industrial and manufacturing development as far north as St. Johns. At minimum, it has made the rural townships of the County very appealing for the resident seeking a country living environment while still being able to work in the city. Preservation of farmland in the County is a high priority, but many farmers find it increasingly lucrative to sell land to developers or split properties for large-lot residential building sites.

The impact of this growth is twofold: Larger populations means increased waste generation and increased need for services; and an increase in population density may necessitate modifications in the types of services provided to new residents.

Development is provided for in the Clinton County Comprehensive Land Use Plan by prioritizing four types of land uses: Rural Development, Agricultural Development, Residential Development and Suburban Development.

- Agricultural Development Protected agricultural land providing unique production critical to the county's economy.
- Rural Development Least intensive development the primary focus being on open space preservation.
- Residential Development Low to moderate density with typical city dwellings, businesses and utilities.
- Suburban Development Moderate to High development density with concentrated areas of dwellings.

The Land Use Plan prioritizes development in this order:

- Predominant Focus Rural and Agricultural Development
- Secondary Focus Residential Development
- Tertiary Focus Suburban Development

Areas in the county have been classified as containing eight different soil types. Each type is conducive to a certain kind of development. This information, plus the location of currently developed areas have led to identification of areas within the County most appropriately slated to be the

27

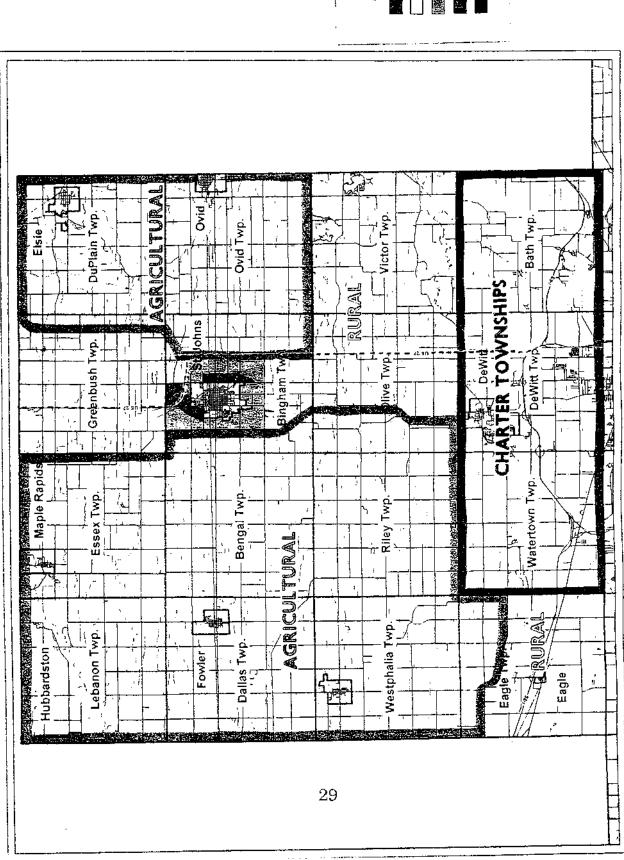
Nov. Master Plan doc 12/03/97

target of increased development in the coming years. They are Bingham, Victor, Olive, Riley and Eagle Townships. Bingham Township surrounds the city of St. Johns, and encompasses Business Route US-27 and the new US-27 expressway; Victor, Olive and Riley townships flank the southern most townships in the County which have already experienced substantial increases in residential development. Eagle Township is the only township along the southern border of the County which is not a Charter Township. Each of these townships are identified as areas of future growth and have individual plans being developed for them.

The County is in the process of implementing a GIS system which will allow overlay of land use activity in maps that highlight such features as drains, rivers, wetlands and farmland. This is a powerful planning tool that will allow the County to view housing densities in specific areas in some detail which will assist with solid waste service planning in the coming years. Aerial photos have been completed and data is in the process of being entered into the County's system. Once all land use data is entered and plans for the growth townships complete, a comprehensive future land use map will be produced. Map detail will, of course, include current disposal area locations and land owned by current facility operators.

Without question, agriculture continues to be the key focus of the County's economic base, and farmland preservation efforts are expanding. The waste disposal needs of the agricultural community for such items as pesticides and unwanted farm equipment present problems to be addressed in this Plan.

CLINTON COUNTY, MICHIGAN



CHNTON COUNTY
Funne Land Use Legend

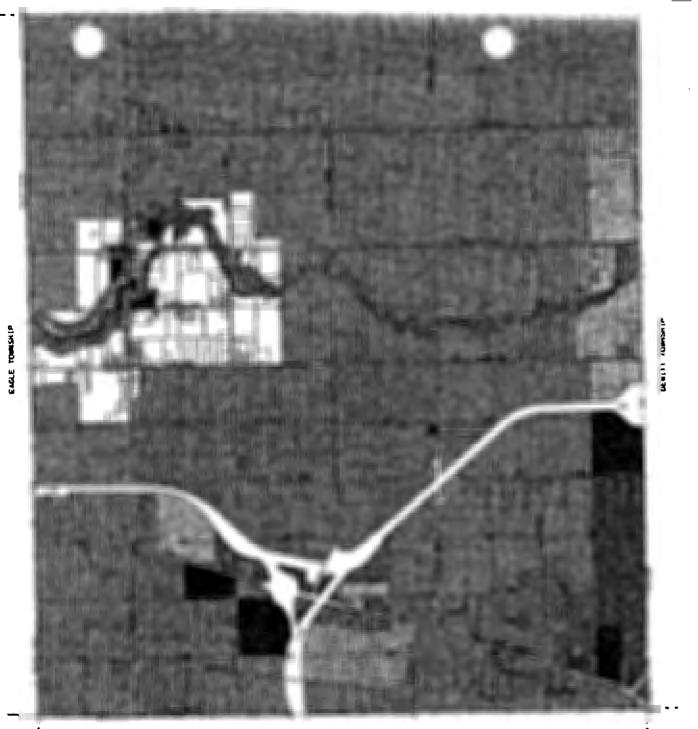


Residential Development Rural Development



Subarban Development

Charter Townships



AGRICULT

SINGLE FAMILY LOW DENSITY

SINGLE FAMILY MEDIUM DENSITY

MULTIPLE FAMILY

MOBILE HOME PARK

COMMERCIAL

INDUSTRIAL

RESEARCH /DEVELOPMENT /

AIRPORT

LANDFILL

RECREATION / OPEN SPACE CONSERVATION

PUBLIC /SEMI-PUBLIC

1600 600 0 800 1800 2400 3200

MAP 2 FUTURE LAND USE

WATERTOWN CHARTER TOWNSH

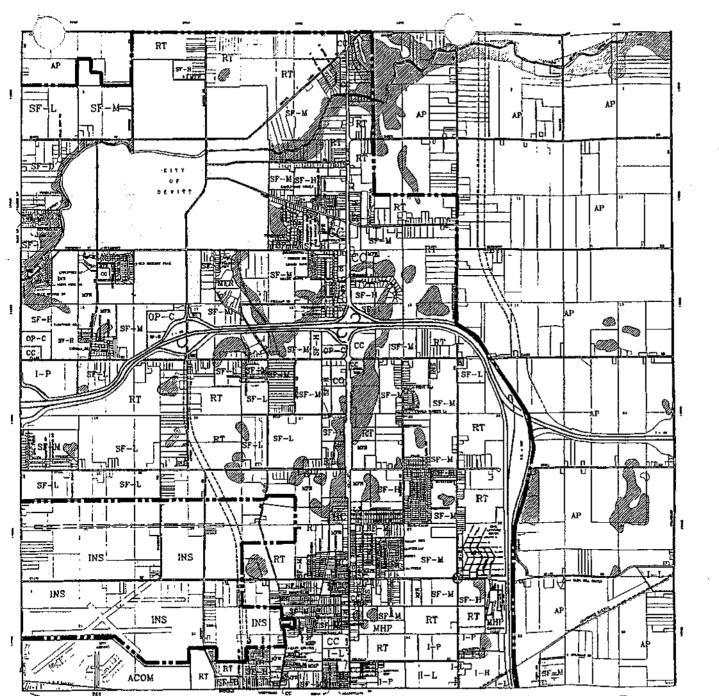
CLINTON COUNTY, MICHIGAN



CME 10A STURGES SUSE WAS CLINICAL COUNTY DELIN COMPASSION

DELTA TOWNSHIP

LARSING



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LECEND

	SINGLE FAMILY RESIDENTIAL
	ST-M HERBITY SINGLE & TWO FAMILY ST-M HERBING DENSITY SINGLE & TWO FAMILY ST-K HIGH DENSITY SINGLE & TWO FAMILY
(ion	MULTIPLE FAMILY RESIDENTIAL

	i			
10.07	MANUFACTURED	номе	PARK	

$\overline{}$	CONNERCIAL	

NE KEIGHBORHOOD ORIENTEE
COMMUNITY ORIENTED
BC RICHTAY ORIENTED
OF-C OFFICE PARK
LOOK AIRPORT COMMERCIAL

INDUSTRIAL
LURTZUDIN THOLL LEI
1-1 HEAVY INDUSTRIAL
1-P INDUSTRIAL PARK

AGRICULTURAL
MT RURAL TRANSITION
TA LEDICHITICAL PRESERVATION

CONSERVANCY

DI3	INSTITUTIONAL

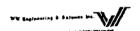
ITTITI FUTURE TRANSPORTATION FACILITY

---- URBAN GROWTH BOUNDARY

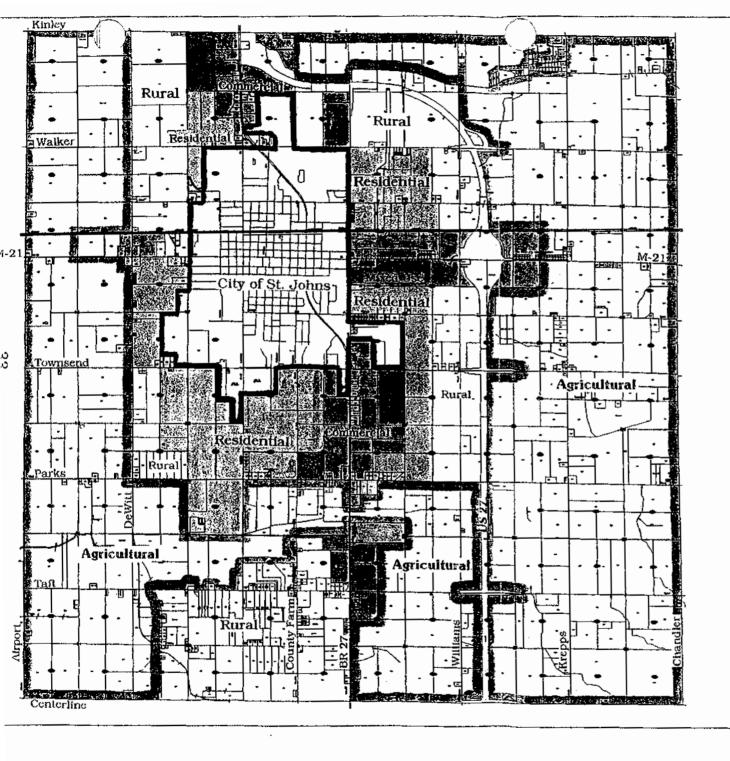
MAP 1

FUTURE LAND USE

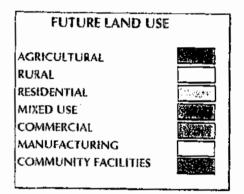
DEWITT CHARTER TOWNSHIP, MICHIGAN MAY 1991

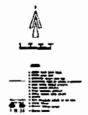


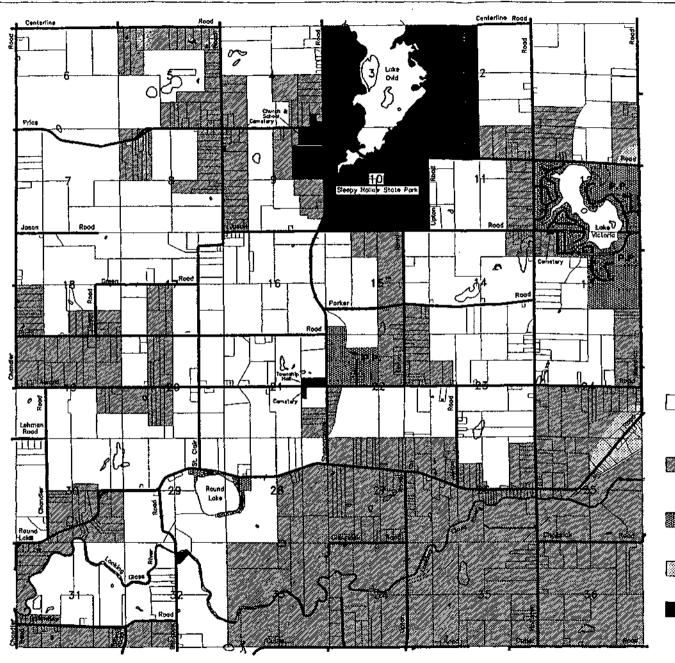
TOWNSELP ACTIVITY CENTER FUTURE LAND USE MAP CHIQUE ENVIRONMENT RESIDENTIAL MAP 7 RURAL KEX



BINGHAM TOWNSHIP T7N-R2W CLINTON COUNTY, MICHIGAR









VICTOR TOWNSHIP CLINTON COUNTY, MICHIGAN FUTURE LAND USE MAP



The following definitions apply to house leads use recommendations for apositic geographic areas within the Township Comprehenses used like Flan. These categories of Mothe bard use are ... Agricultural Land Use Enghasis, Rural jurity One Emphasis, Residential Land Use Emphasis, Michael Use Commandy Facilities.

Agricultural Land Use Emphasia:

Those unique agricultural production land areas identified which the Comprehensive Land Use Plan which represent a critical component of the lotal expliculated according which in project both now and in the forestable feature. It is encopared but the residential development exold be desponsiped and directed threated other prographic areas within the journable brough the recent and application of armitent preservation tools. Agel-baseness operations would be allowed through the application of the Reposited Line Petrole process.

Rural Land Use Emphasia:



The gaugestric eress identified within the Comprehensive Land Use Pien which are encouraged to accommodate very be garnely residential development with an emphase on open appear presentation that supports a rural quelity of life environment. Apricultural and agrif-curvate would be encouraged within these geographic subset but with the encouraged authorized and presented by the Anne.

Residential Land Use Emphasie:



Those geographic areas identified within the Comprehensive Land tips Plan which could, and are encouraged to accommodate low to moderate density nationated development. These existing or fours areas for residential development could consist of small plenchs and land distribute, pleated substitutions, site condomination, or duster residential options.

Mixed Land Use Development Emphasia:



As recommended in the Comprehensive Land Use Plan, these areas contain multi-use land development partners of ved planned commercial, office, and other non-residential land uses which provide a Great service to the residents of the low-cuby.

Community Facilities and Recreational Land Use Emphasia:



This category of land use identifies easing and trains locations for Community Facilities (Township Offices, Coventmental Facilities, Etc.) and Recreational Land Uses (Parkland, Griff Downser, Etc.)

P.P. Indicates private portional developed and monitained by the subdivision property curve's association.

The retrood right of way in Section 25, 26, 34 and 35 is now under private community, it has been removed from this man.

Red Law



4 PART FOUR - SOLID WASTE MANAGEMENT SYSTEM ALTERNATIVES

4.1 INTRODUCTION

The Act requires the evaluation of alternative solid waste management systems. The management system in use since 1990 has, by in large, worked well for this County. Continuation of the existing system would be one viable approach. The existing management system is presented as Management System Alternative 1.

Over the last seven years, evaluation of the existing management system has resulted in recommendations for improving its enforcement and education aspects. A second alternative would be to preserve the existing system, while incorporating the recommended improvements. This enhanced system is presented as Management System Alternative 2.

Finally, to maintain the County's awareness of service delivery options and their advantages and disadvantages, it is useful to consider an approach that is the antithesis of the existing management system. This system is presented as Management System Alternative 3.

The following narrative contains brief summaries of each management system alternative. A chart in Appendix A-1h ranks the three systems in order of appropriateness and cost effectiveness. Additional details describing the non-selected systems are contained in Appendix B.

Any service management system may consist of components that address the way waste and recycling services are provided, and how waste reduction is accomplished. Following the section describing service management system alternatives is a section which includes brief descriptions of various components that may (or may not) be used as part of each system. The components identified in this section are only those that rose to the top during the planning process and warranted special review.

4.2 EVALUATION OF SOLID WASTE MANAGEMENT SYSTEM ALTERNATIVES

Alternative 1: Continuation of the Existing System

Part Three of this Plan provides a comprehensive description of the existing solid waste management system as developed under the previous Plan. Continuation of this basic structure, as well as the programs and services designed to implement the previous Plan, would certainly be feasible, but would fall short of addressing deficiencies described in the Deficiencies and Problems section of this document. The existing system includes a well-developed recycling component, provides for composting, and emphasizes a strong education program. The administrative structure is in place, as is the

funding mechanism. (The funding mechanism, however, has undergone some legal challenge.) County roles and responsibilities have been defined and assumed, and municipalities approve of the distribution of services and sharing of resources that the current system provides.

However, the current system falls short in addressing waste reduction, the business and construction/demolition sectors, hazardous household wastes and unwanted agricultural chemicals. It is weak in addressing purchasing and packaging issues. And, the current system inadequately defines enforcement responsibilities and relationships with disposal facilities.

Alternative 2: Current System with Enhancements

As stated in Alternative 1, the existing system adequately addresses the fundamental requirements of the 1990 Plan. Alternative 2 preserves the integrity of the current system, while addressing inadequacies identified in the Deficiencies and Problems section of this Plan document.

A modified system would incorporate the following changes and additions:

Educational program

- Shift emphasis from the classroom to the business sector, including the building and construction sector.
- Implement a comprehensive education campaign to teach and encourage the purchase and use of products that:
 - a) have less packaging;
 - b) have packaging that is truly recyclable; and
 - c) are products made with recycled content.
- Implement an education program targeting local governments, housing associations and developments (subdivisions, apartment complexes, modular housing communities) and residents describing solid waste collection options and their advantages.

Hazardous waste

 Establish a convenient and cost effective method for addressing disposal and handling of household hazardous materials and unwanted agricultural chemicals.

Responsibilities and relationships

Revise the solid waste ordinance to clarify waste generator and disposal
facility owner/operator responsibilities pertaining to waste hauling and
disposal in the county. Establish standards for waste handling practices
and solid waste disposal for companies doing business in this County.
Work with service providers to acquire more meaningful data such that

program effectiveness is better measured, and programs are better designed to meet evolving needs.

Alternative 3: Uniform Service Contracting

- In this alternative, the County would contract for solid waste services on behalf of all single family residences. The County would develop a means of collecting a tax or fee to pay for the contract(s). The County would develop a transition plan and timetable to facilitate the change from the current system to a county-wide uniform housing service contract system that would be satisfactory to residents and municipalities.
- One advantage of such an approach is the economy of scale the County could achieve through a single contract, providing cost savings. Some residents may also receive a wider variety of services than are currently available to them such as curbside recycling in rural townships. Volume based waste collection and curbside recycling could result in substantial waste reduction as well as increased recovery of recyclable materials. Other benefits include reducing truck travel on county roads, thereby minimizing emissions, road wear and fuel consumption.
- The disadvantage of such an approach is that the County would require authority from municipalities and residents to contract for services. This political challenge, and the difficulty of meeting such a wide variety of needs, present significant barriers to this option. Additionally, there may be risk in contracting with a single company (or group of companies) to service the needs of an entire area; it could make the County vulnerable to monopolistic control.

4.3 EVALUATION OF OPTIONAL COMPONENTS

Component 1: Waste Disposal

Waste Disposal strategies (such as construction of a waste to energy facility), other than landfilling at the two local facilities located within the County were not considered. The two existing facilities adequately meet Clinton County's needs. As a contingency, neighboring counties also have landfills to which Clinton County may export its waste.

Component 2: Mandated Curbside Recycling Services

Mandating that haulers provide curbside services would increase the tendency of a limited number of non-recycling residents to recycle, particularly those in rural areas. Based upon the findings of the 1998 residential survey, the availability of curbside recycling could potentially induce in as many as 2,000 households (an optimistic estimate) to begin recycling. The additional materials collected could be as much as 720 tons. The problem with such a mandate, however, is that it does not take market conditions into account. In addition, the per-stop costs of providing curbside

recycling in rural areas is high. Mandating collection systems where it is not economical may result in increased costs passed back to the consumer, or increases in the cost of recycled content products. It could be argued that this is not good for the industry as a whole.

Component 3: Mandated Licensing

The County could require hauler licensing as a means to mandate recycling and volume based pricing for waste collection services and data reporting. For the purposes of this plan, licensing is identified as a contingency, which could be implemented if need arises. Review of this tool during the planning process indicated a strong disinclination to employ such tactics as a primary strategy at this point in time.

Component 4: Mandate Volume-Based Pricing

Many pricing methods for collection services reward waste generators for creating more waste; the generator's cost per unit goes down the more waste they place at the curb. This approach to pricing garbage is a disincentive to waste reduction. Volume based collection favors a direct relationship between the cost of trash collection services and the quantity of waste generated: a 30 gallon container costs \$X/month and a 60 gallon container costs \$2X/month.

The experiences of many municipalities have shown that volume-based pricing for waste collection has an impact on waste reduction. However, mandating volume based pricing at the county level, would pose administrative difficulties for companies operating between Clinton County and counties that do not require volume based pricing.

Solid waste companies argue vigorously against such requirements. Some argue that residents prefer carts to bags to hold their waste. However, volume based pricing can work for carts as well as bags.

Companies have also pointed out that certain costs reflected in X are constant whether the container is large or small (the truck, fuel and driver to perform the collection, for example). If such a component were to be used, these constants could and should be factored out as the base charge, so that residents can clearly see the doubling of charges for differing sized containers. For example: a 30 gallon container would cost A(fixed costs) + X (disposal costs). A 60 gallon container would cost A + 2X.

An alternative to mandating such services is to educate consumers. This strategy is more acceptable to haulers and maintains choice for municipalities and individual consumers.

4.4 SOLID WASTE MANAGEMENT ALTERNATIVES RANKINGS

An informal ranking of alternatives (on following page), combined with the findings of the Solid Waste Planning Committee, indicate that Alternative 2

is best suited for use in this planning cycle. The survey conducted in 1997 (Appendix A-2d) confirms that Alternative 2 most closely meets the needs of the County's residents.

SOLID WASTE MANAGEMENT ALTERNATIVES RANKINGS

Criterion & Potential Value	Alternative 1 Current System	Alternative 2 Current System w/Modification	Alternative 3 County Uniform Contracting
Technical Feasibility	++	++	+
Economic Feasibility	+	+	-
Energy Consumption	+	++	++
Environmental Impacts	-	+	++
Public Health Effects	+	· +	++
Public Acceptability	++	++	
Industry Acceptability	+	++	-
Total "+"'s	+=8	+ = I I	+= 7
Total "-"'s	-=1		-= 3
Ranking	2	1	3

Values:

- ++ = High Impact
- + = Average Impact
- = Negligible Impact

Rankings provide an approximation of the degree to which one alternative or another has a positive impact on the criterion listed. Value assignments are based on independent survey results, staff assessments and research on programs conducted in other areas. Narrative in the Plan and in Appendix B present further discussion on these criterion.

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5 PART FIVE - SELECTED SOLID WASTE MANAGEMENT SYSTEM

5.1 INTRODUCTION

This Plan continues a decentralized and privatized system of services. The Plan maintains a strategy in which local municipalities and individuals control the type of services they receive, and their own levels of participation in various aspects of an integrated solid waste management system. As a service provider, the County continues its role as 'provider of last resort.' Primarily this means assisting with management of 'hard to dispose of or recycle' items, and/or assisting in geographic areas of the county that do not presently receive adequate services from the private sector.

Education efforts will continue as the cornerstone of modifying behaviors which impact waste reduction, recycling and recycled product use. The administrative structure developed under the previous Plan is maintained in this planning cycle. The County will however, maintain stronger roles in areas of policy making, enforcement, and partnering with businesses and local municipalities to enhance services to citizens. The Education component of this Plan is enhanced to address issues of waste reduction, purchasing and business recycling.

The Plan maintains an integrated approach to solid waste management which includes waste reduction, resource conservation and recovery with waste disposal being the choice of last resort for managing remaining waste materials. Incineration is not included as an optional component.

5.2 BASIS FOR SELECTION

The primary reason for maintaining a decentralized system is public preference for such a system. However, there are other reasons which make this approach appropriate. Population densities in this County vary significantly. GIS research indicates that densities go from six households per acre in the county to over 700 per acre in the city. The southern end of the County is filling with suburbanites accustomed to and wanting extensive services - while much of the northern part of the County maintains its rural agricultural character. This accounts for wide diversity in service expectation. For this reason, the selected management system monitors development, suggests service alternatives as population densities change, and coordinates service provision where there are gaps. The County will continue to serve as a coordinating umbrella, through which emerging needs are identified or met.

An Ordinance is the central mechanism for establishing and enforcing minimum standards for the handling of solid waste and operation of disposal facilities located in the County.

5.3 ADVANTAGES AND DISADVANTAGES OF SELECTED SYSTEM

Public Health

While the selected system is decentralized in nature, in this Plan Update, the County will play a stronger role in the establishment of baseline waste management standards and enhance educational programs to address waste reduction, hazardous materials disposition and needs evolving from increased development occurring in the County. Establishment of such standards, and better enforcement of illegal waste handling, reduces the public's risk in handling solid waste and its ultimate disposal. Stronger efforts will be made to address household hazardous waste and auto fluids. Provision of such services to address these waste streams decrease the risk that such materials end up in drains or on the ground.

Environmental Affects

In the County's role as an overall coordinator and educator or technology transfer agent, the environmental impacts of the decentralized system in the County will continue to improve. The strong educational component, together with a strategy of local grant giving, provide incentive to local municipalities to implement clean-ups or upgrade waste handling strategies (recycling, composting, etc.). Additionally, stronger, more consistent solid waste handling standards will protect individuals as well as the environment.

Energy Use

This system fails somewhat to address energy use. Individual contracting for subscription services results in multiple companies traveling a single road to collect trash and/or recyclables. The focus of this Plan, to educate municipalities and residential developments about the advantage of contracting as units with a single hauler, may impact this situation somewhat.

Siting

Siting of new disposal capacity appears not to be necessary during this Plan period. Sufficient capacity has been promised to the County by Granger. Both Granger landfills have substantial capacity available; 30+ years each. However, the County has determined that inclusion of a siting process is important to a system based on the private sector and local determination. Such a process standardizes review criteria should the need arise. Establishment of standards provides the county with a tool to use in the event that anticipated needs and/or services are dramatically changed.

Economic Costs

Because services in the County are, by in large, provided through the private sector, costs of programs will tend to be based upon the economic viability of such services. Contracts enacted by municipalities or local developments tend to have lower per unit costs due to the economies of scale in servicing a large number of household units per geographic area. Costs for implementing the Plan where the County is not active in direct collection services are far more reasonable than they would be if a stronger provider role was assumed by the County.

o.4 Counties Approved for Plan Inclusion



Michigan Counties

Counties Not Included
Counties Included
Clinton County



5.5 IMPORT AUTHORIZATION

Listed in 5.7 are licensed solid waste disposal areas currently operating in Clinton County. Disposal of solid waste generated from within Counties named below is authorized by Clinton County in unlimited amounts, except as specified by the Annual Cap and Conditions.

IMPORT VOLUME AUTHORIZATIONS OF SOLID WASTE

IMPORTING	EXPORTING	FACILITY	AUTHORIZED	AUTHORIZED	AUTHORIZED
COUNTY	COUNTY	NAME	QUANTITY/	QUANTITY/	CONDITIONS
			DAILY	ANNUAL	
Clinton	Ingham	All	unlimited*	unlimited*	P*
Clinton	Eaton	All	unlimited*	unlimited*	P*
Clinton	Shiawassee	All	unlimited*	unlimited*	P*
Clinton	Gratiot	All	unlimited*	unlimited*	P*
Clinton	Ionia	All	unlimited*	unlimited*	P*
Clinton	Allegan	All	unlimited*	unlimited*	P*
Clinton	Barry	All	unlimited*	unlimited*	P*
Clinton	Calhoun	All	unlimited*	unlimited*	P*
Clinton	Genesee	All	unlimited*	unlimited*	P*
Clinton	Isabella	All	unlimited*	unlimited*	P*
Clinton	Jackson	All	unlimited*	unlimited*	P*
Clinton	Kalamazoo	All	unlimited*	unlimited*	P*
Clinton	Kent	All	unlimited*	unlimited*	P*
Clinton	Livingston	All	unlimited*	unlimited*	P*
Clinton	Montcalm	All	unlimited*	unlimited*	P*
Clinton	Oakland	All	unlimited*	unlimited*	P*
Clinton	Ottawa	All	unlimited*	unlimited*	P*
Clinton	Saginaw	All	<84 Tons/day	Approx 75,000	P*
				cy	
Clinton	Washtenaw	All	unlimited*	sum of all 83	P*
				counties	
				cannot exceed	
				500,000 cy	
Clinton	Wayne	All	unlimited*	unlimited*	

Authorization indicated by P = Primary Disposal; C = Contingency Disposal; * = Other conditions exist.

^{*} ANNUAL CAP: The sum of all waste disposed of in facilities within Clinton County, which were owned by Granger at the time of the writing of this Plan, may not exceed 2,500,000 cubic yards per year. See Section 6.8 of this Plan document.

* CONDITIONS: Each County must name Clinton County in their Plan as a County to which they will export waste. Each County which has a disposal facility must also name Clinton County in their Plan as a county from whom they will accept waste for disposal. Those Counties currently without disposal facilities must warrant that if they should construct a facility during this Plan period, they will agree to accept Clinton County waste for import. These warranties may be secured through a letter submitted to the Clinton County DPA which is signed by the DPA of the Exporting County. Municipal solid waste incinerator ash is not accepted for disposal in Clinton County.

5.6 EXPORT AUTHORIZATION

If a licensed solid waste disposal area is currently operating within the counties named below, disposal of solid waste generated from within Clinton County is authorized for disposal in facilities within those counties in unlimited quantities, except as may be specified by the receiving county's authorized Solid Waste Management Plan.

EXPORT VOLUME AUTHORIZATION OF SOLID WASTE

EXPORTING COUNTY	IMPORTING COUNTY	FACILITY NAME	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS
Clinton	Shiawassee	All	unlimited	unlimited	P*
Clinton	Eaton**	All	unlimited	unlimited	P*
Clinton	Ionia	All	unlimited	unlimited	P*
Clinton	Gratiot**	All	unlimited	unlimited	P*
Clinton	Ingham	All	unlimited	unlimited	P*
Clinton	Allegan**	All	unlimited	unlimited	P*
Clinton	Barry	All	unlimited	unlimited	P*
Clinton	Calhoun	All	unlimited	unlimited	P*
Clinton	Genesee	All	unlimited	unlimited	P*
			unlimited	unlimited	P*
Clinton	Isabella**	All	unlimited	unlimited	P*
Clinton	Jackson	All	unlimited	unlimited	_ P*
Clinton	Kalamazoo**	All	unlimited	unlimited	P*
Clinton	Kent	All	unlimited	unlimited	P*
Clinton	Livingston**	All	unlimited	unlimited	P*
Clinton	Montcalm	All	unlimited	unlimited	P*
Clinton	Oakland	All	unlimited	unlimited	P*
			unlimited	unlimited	P*
	<u> </u>		unlimited	unlimited	P*
Clinton	Ottawa	All	unlimited	unlimited	P*
·			unlimited	u nli mited	P*
Clinton	Saginaw	All	unlimited	unlimited	P*
			unlimited	unlimited	P*
	İ		unlimited	unlimited	P* _
Clinton	Washtenaw	All	unlimited	unlimited	P*
Clinton	Wayne	All	unlimited	unlimited	P*
			unlimited	unlimited	P*
			unlimited	unlimited	P*
<u> </u>	<u> </u>		unlimited	unlimited	P*

Authorization indicated by P = Primary Disposal; C = Contingency Disposal; * = Other conditions exist

* Each County which has a disposal facility must name Clinton County in their Plan as a county from whom they will accept waste for disposal. Each County must name Clinton County in their Plan as a County to which they will export waste. Those Counties presently without disposal facilities must warrant that if they should construct a facility during this Plan period, they will agree to accept Clinton County waste for import. These warranties may be secured through a letter submitted to the Clinton County DPA, signed by the DPA of the Importing County. Counties may not export municipal solid waste incinerator ash to Clinton County for disposal.

5.7 SOLID WASTE DISPOSAL AREAS

This list identifies facilities operating within each county authorized in this Plan at the time this Plan was completed. It does not intend to exclude facilities that may come into existence during this plan period. Additionally, while transfer facilities are disposal facilities, they are not end disposal sites. Any transfer facility located within the authorized counties is authorized for use so long as waste leaving that transfer facility which originated in Clinton County is disposed of at the end disposal facility located within the counties authorized in 5.6 of the Plan. Additionally, waste coming into Clinton County for disposal may come from any of those transfer facilities so long as the waste originates from within the counties named and authorized in 5.5 of this Plan.

Information listed below was provided by each facility and Clinton County accepts no responsibility for its accuracy. For the purpose of this plan, 1 gate yard equals approximately .5 air yards. Capacities labeled "CY" are unspecified as gate or air yards. Capacity and life data are not provided for MRFs and transfer stations, as these are not end disposal sites.

Type II Landfills	Size & County	Capacity	Life
Granger Grand River	120.9 acres	7,617,000 Air	32 years life
Avenue Landfill located on	sited in	Yards	
Grand River in Watertown	Clinton		
Charter Township	County		
Granger Wood Street	194.8 acres	10,981,000 Air	34 years life
Landfill located on Wood	sited in	Yards (1998)	
Road in DeWitt Charter	Clinton		
Township and Lansing	County		
Township in Ingham County			
Venice Park Recycling and	80 acres	1,300,000 air	2.5 years life -
Disposal Facility in Lennon,	sited for use	yards	expansion
Shiawassee County			pending
Pitch Sanitary Landfill in	28.36 acres	40,000 tons	.5 years
Kiddeville, Ionia County	sited in Ionia		remaining -
			pending
			expansion.
City Environmental	Barry	3 million CY	10+ years, 18
			add'l. acres
			pending
C & C	Calhoun	3,360,000 CY	7 Years
		(air yards)	
Citizens Disposal	Genesee	5,300,000 CY	25 years

Brent Run	Camana	10,247,000 CY	18 Years
<u> </u>	Genesee	-	
McGill Rd.	Jackson	740,000 CY	5 Years
South Kent	Kent	7,600,000 Tons	38 Years
Central Sanitary	Montcalm	373,428 CY	2 Years
Collier Road	Oakland	NA	NA
Eagle Valley	Oakland	NA	NA
Oakland Heights	Oakland	3,500,000	4 Years
Autumn Hills	Ottawa	20,750,000	30.2 Years
		Tons	
Ottawa County Farms	Ottawa	16,500,000 CY	25-30 Years
People's	Saginaw	5,301,641 Tons	20 Years
Saginaw Valley	Saginaw	NA	1 Year
Taymouth	Saginaw	1,300,000 CY	7-8 Years
Arbor Hills	Washtenaw	6,177,000 Gate	17.6 Years
		Yards	
Carleton Farms	Wayne	23,674,000 CY	35 Years
Riverview Land Preserve	Wayne	17,800,000 CY	28 Years
Sauk Trail Hills	Wayne	19,486,236 CY	17 Years
Woodland Meadows	Wayne	27,861,000 CY	16 Years
See attached facility descript	ions for more de	tail.	

Type III Landfill (C & D) Siz	ze Capac	ity Life	
Daggett Sand and Gravel on Sheridan Road in Lansing, Ingham County	6.4 acres sited for use	60,000 air yards	7 years life
Incinerator			<u> </u>
None			
Transfer Facilities			
None			
Waste to Energy Incinerator			
None			
Processing Plants			
Type II (Granger processes source separate materials only)	N/A		_
Type III (Daggett Sand and Gravel - separates construction/demolition materials prior to landfilling)	N/A	Approx. 400 cy/day 100,000 cy/year	N/A
Waste Piles and Other			
None			

Facility Descriptions are lettered to correspond with the following:

- a) Clinton County
- b) Barry County
- c) Calhoun County
- d) Genesee County
- e) Ingham County
- f) Ionia County
- g) Jackson County
- h) Kent County
- i) Montealm County
- j) Oakland County
- k) Ottawa County
- I) Saginaw County
- m) Shiawassee County
- n) Washtenaw County
- o) Wayne County

SELECTED SYSTEM

Facility Type: Type II
Facility Name: Granger Grand River Avenue Landfill
County: Clinton Location: Town: 5N Range: 3W Section(s): 29
Map identifying location included in Attachment Section: Yes If Requested No
If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes:
Public x Private Owner: Granger Land Development Company
Operating Status (check) X open Closed * X residential X licensed X industrial Unlicensed X construction & demolition X construction permit X special wastes * Pending * Explanation of special wastes, including a specific list and/or conditions: All As Authorized
Site Size: Total area of facility property: Total area sited for use: (Plan) 120.9 acres Operating: (Licensed & Certified) 54 1 acres Not exessited: Developed 31.6 acres Current capacity: T.617.000 tone or yds Air Yards Estimated lifetime: 32 years Estimated days open per year: Sit applicable) Annual energy production:
Landfill gas recovery projects: Waste-to-energy incinerators: megawatts pregawatts
*1: Includes acres of (separate) closed facility to be consistent with DEQ numbers on permits and licenses.

GRANGER GRAND RIVER AVE LANDFILL



Photo: April 1998

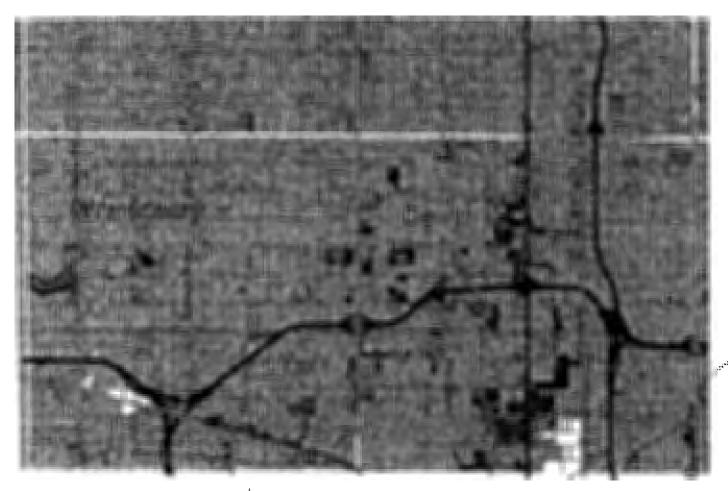


Granger Grand River Landfill - Legal Description

Landfill facility located in Watertown Township within Clinton County. The legal description of this facility is as follows:

Com. At a point on the E-W 1/4 line distant S89°58'41"E 1316.40' from the W 1/4 cor. of Sec. 29, T5N-R3W, Watertown Township, Clinton County Michigan, th. N00° 19'38"E alg. the W 1/8 line 2278.35' to a pt. on the S. r/o/w ln. of I-96, as now located, th. alg. sd. S. limited access r/o/w on the arc of a curve to the right, sd. curve having a delta angle = 14°03'45", radius of 5626.58', long chord bearing and distance = $S77^{\circ}29'16$ " E 1377.50', a distance of 1380.96'<th. S66°05'38"E 153.95' to the P.C. of a curve to the right, sd. curve being the S. limited access r/o/w ln. of I-69 eastbound turning roadway as now proposed, and having a delta angle of 31°08'16", radius of 2784.79', long chord bearing and distance = S50°25'03"E 1494.86', a distance of 1513.41; th. S34°50'55"E a distance of 545.20' to a point on the S. ln. of the N. 4/5 of NE 1/4 Sec. 29, th. N89°42'41"W alg. sd. S. ln. 85.60', th. S34°50'55"E 73.21', th. S00°21'03W" 1774.96' to a pt. on the c/I of Grand River Avenue formerly U.S.16 sd. c/l being the c/l of the 100 foot, being 50 feet either side of the c/l r/o/w, th. alg. sd. c/l, the following courses: N74°53'07"W 1654.94', N76°45'31"W 1083.81' N76°49'55"W 263.56' to the intersection of sd. c/l and the W 1/8 ln. th. N00°22'07"E alg. sd. W 1/8 ln. 576.69' to the POB.

PARCELS OWNED BY GRANGER



Cccenter.shp
Primary
State Trun
US Trunk
Cctownbound.s
Ccsections.shp
Parcel

Granger crosses County Line

Yellow pacels are owned by Granger and include or are contiguous to existing landfill facilities.

WATERTOWN AND DEWITT CHARTER TOWNSHIPS



SELECTED SYSTEM

Facility Name: Granger Wood Clinton	5N 34
County: Ingham	Location: Town: 4N Range: 2W Section(s): 3
* * * * * * * * * * * * * * * * * * *	· · · · · · · · · · · · · · · · · · ·
Asp identifying location included in .	Attachment Section: Yes If RequestedNo
f facility is an incinerator or a transf	fer station, list the final disposal site and location for incinerator ash or
ransfer station wastes:	
Public x Private Owner:	Granger Waste Management Company
	· - Granger waste management Company
perating Status (check)	Waste Types Received (check all that apply)
x open	<u>x</u> residential
closed ★1	<u>X</u> commercial
X licensed	x industrial
unlicensed	x construction & demolition
construction permit	contaminated soils
open, but closure	x special wastes *
pending	v other Type III Wastes
Explanation of special wastes, inchr All as enthorized	
All as enthorîzed	
All as enthorîzed	
All as anthorized ite Size: otal area of facility property: *1	ding a specific list and/or conditions:
All as anthorized ite Size: otal area of facility property: *1 otal area sited for use: (Plan)	ding a specific list and/or conditions: 302.8 acres 194.8 acres + 67 (future permitting in
All as anthorized ite Size: otal area of facility property: *1 otal area sited for use: (Plan)	ding a specific list and/or conditions: 302.8 acres 194.8 acres + 67 (future permitting in
All as anthorized in Size: otal area of facility property: otal area sited for use: (Plan) otal area permitted:(for disposa	302.8 acres 194.8 acres + 67 (future permitting al.,i.e.SWB) 104.3 acres Ingham County)
All as anthorized ite Size: otal area of facility property: otal area sited for use: (Plan) otal area permitted:(for disposa Operating:(Licensed & Certif	ding a specific list and/or conditions: 302.8 acres 194.8 acres + 67 (future permitting in al,i.e.SWB) 104.3 acres Ingham County)
All as anthorized in Size: otal area of facility property: otal area sized for use: (Plan) otal area permitted (for disposa Operating: (Licensed & Certif Not excavated: Developed wrient capacity:	302.8 acres 194.8 acres + 67 (future permitting al,i.e.SWB) 104.3 acres Ingham County) acres tied) 49.5 acres
All as anthorized ite Size: otal area of facility property: otal area sited for use: (Plan) otal area permitted:(for disposa Operating:(Licensed & Certif Not exeavated: Developed arrent capacity: ssimated lifetime:	302.8 acres 194.8 acres + 67 (future permitting al.,i.e.SWB) 104.3 acres 194.8 acres - Ingham County) 49.5 acres 54.8 acres
Site Size: Total area of facility property: * Total area sited for use: (Plan) Total area permitted:(for disposa Operating:(Licensed & Certif Not exeavated: Developed Current capacity: Stimated lifetime:	302.8 acres 194.8 acres + 67 (future permitting al,i.e.SWB) 104.3 acres Ingham County) 49.5 acres 54.8 acres 10.981.000 tons-oryds Air Yards years
All as anthorized in Size: otal area of facility property: otal area sized for use: (Plan) otal area permitted (for disposa Operating: (Licensed & Certif Not excavated: Developed wrient capacity:	302.8 acres 194.8 acres + 67 (future permitting in al,i.e. SWB) 104.3 acres Fied) 49.5 acres 54.8 acres 10.981.000 tons-oryds Air Yards years
All as anthorized ite Size: otal area of facility property: otal area sited for use: (Plan) otal area permitted:(for disposa Operating:(Licensed & Certif Not exsevated: Developed arrent capacity: stimated lifetime: stimated days open per year: stimated yearly disposal volume:	ding a specific list and/or conditions: 302.8
All as anthorized ite Size: otal area of facility property: * otal area sited for use: (Plan) otal area permitted:(for disposa Operating:(Licensed & Certif Not excavated: Developed arrent capacity: stimated lifetime: stimated days open per year: stimated yearly disposal volume: f applicable)	ding a specific list and/or conditions: 302.8
All as anthorized ite Size: otal area of facility property: otal area sited for use: (Plan) otal area permitted:(for disposa Operating:(Licensed & Certif Not excavated: Developed utrent capacity: stimated lifetime: stimated days open per year: stimated yearly disposal volume: f applicable) mual energy production:	302.8 acres 194.8 acres + 67 (future permitting in al,i.e.SWB) 104.3 acres 10.48 acres Ingham County) 10.49.5 acres 10.981.000 tons or yds Gate Yards 10.000 tons or yds Gate Yards
All as anthorized ite Size: otal area of facility property: *1 otal area sited for use: (Plan) otal area permitted:(for disposa Operating:(Licensed & Certif Not excavated: Developed urrent capacity: stimated lifetime: stimated days open per year: stimated yearly disposal volume: f applicable) mutal energy production: Landfill gas recovery projects:	302.8 acres 194.8 acres + 67 (future permitting in al,i.e. SWB) 104.3 acres Fied) 49.5 acres 54.8 acres 10.981.000 tons or yds Gate Yards 3.2 megawats
All as anthorized ite Size: total area of facility property: otal area sited for use: (Plan) otal area permitted:(for disposa Operating:(Licensed & Certif Not excavated: Developed utrent capacity: stimated lifetime: stimated days open per year: stimated yearly disposal volume: f applicable) mutal energy production: Landfill gas recovery projects: Waste-to-energy incinerators:	302.8 acres 194.8 acres + 67 (future permitting al.,i.e. SWB) 104.3 acres Fied) 49.5 acres 54.8 acres 10.981.000 tons or yds Gate Yards 3.2 megawans megawans
All as anthorized ite Size: total area of facility property: otal area sited for use: (Plan) otal area permitted:(for disposa Operating:(Licensed & Certif Not excavated: Developed utrent capacity: stimated lifetime: stimated days open per year: stimated yearly disposal volume: f applicable) mutal energy production: Landfill gas recovery projects: Waste-to-energy incinerators:	302.8 acres 194.8 acres + 67 (future permitting in al., i.e. SWB) 104.3 acres Ingham County) 49.5 acres 54.8 acres 10.981,000 tons or yds Air Yards 260 days 600,000 tons or yds Gate Yards 3.2 megawans arate) Paulson Street facility to be consistent with

GRANGER WOOD ROAD LANDFILL

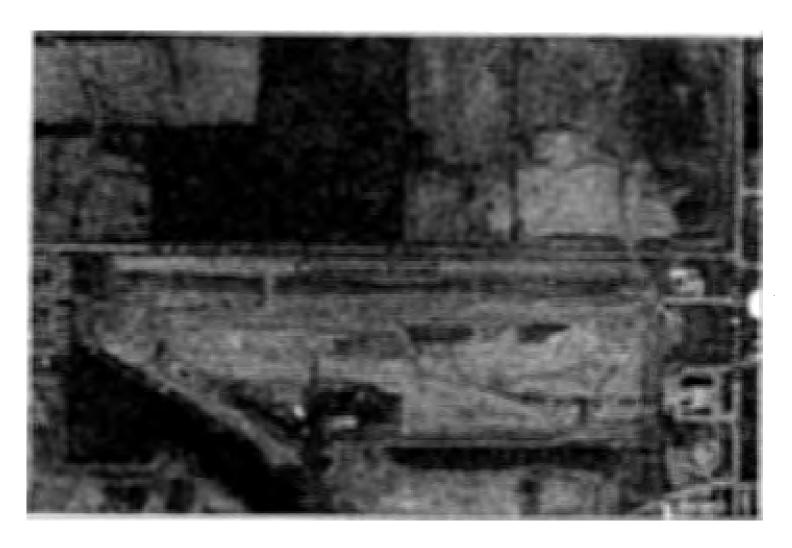
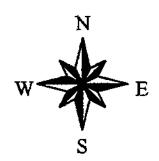


Photo: April 1998



WOOD STREET LANDFILL AND NORTH OF COLEMAN ROAD (CLINTON COUNTY)

A parcel of land on that part of the S ½ of the SE ¼ and the SE ¼ of the SW ¼ of Section 34, T5N, R2W, Dewitt Township, Clinton County, Michigan described as: Commencing at the SE corner of said Section 34; thence N 89°44′06″W along the Clinton-Ingham County line 2,636.80 feet to the S ¼ corner of said Section 34; thence N 89°42′23″W along said county line 1,318.40 feet to the W 1/8 line; thence N 00°02′55″E along said W 1/8 line 709.91 feet; thence S 89°42′23″E 50.00 feet; thence N 00°01′23″E, 609.94 feet to a point on the S 1/8 line of said Section 34; thence S 89°42′34″E along said S 1/8 line 3,906.15 feet to a point on the East line of said Section 34; thence S 00°04′39″W along said East line 1,318.79 feet to the point of beginning. Also containing NE ¼ of SE ¼ & E ½ of NW ¼ of SE ¼ of Section 34, T5N, R2W, Dewitt Township, Clinton County, Michigan. The combined parcels containing 179.12 acres more or less.

lity Type:	Processing & Recyc	ling Transfer Fac	cility					 .
Facility Name	Daggett Recycling Ir	nc 1D#33-0000	21				_	
County:	Clinton	Location:	Town:	T5N	Range:	R2W	Sections(s)	SW1/4 34
Map identifyin	g location included in Atta	chment Section:			es		No	
For MSW (Ty	pe II) residuals not dispo	osed of in owners	(Type III)	Landfill Fa	acility			
list the final dis	sposal site and location fo	r incinerator ash or	transfer s	station			•	
wastes:	Granger Land Develop	ment Class II Land	ifill					
x	Public	Private		Owner: Gr	anger Land D	evelopm	ent Co.	
Operating Stat	tus (check)		,	Waste Type	es Received (ch	eck all tha	t apply)	
X	орел			x	residential			
	closed		-		commercial			
x	licensed		•	<u> </u>	industrial			
	unlicensed		-		construction	& demoliti	on	
	construction permit		-		contaminated	l soils		
	open, but closure		-	X	special waste	es *		
г	pending		-		other:			
\ <u></u>			-					
* Explanation	of special wastes, includin	ig a specific list and	or condit	ions:				
	Garbage Bags, Oil Base	ed Paints, Roofing	, P.C.B. 1	Fransforme	ers, Etc.			
Site Size:								
Total area of fa	acility property:				8.74	acres		
Total area site	d for use:			•	8.74	acres		
Total area per	mitted:				8.74	acres		
Operating:					2+	acres		
Not excavate	d:					acres		
Current capaci	îty:				N/A	tons c	ır ydis³	
Estimated lifet	ime:				N/A	years		
Estimated day	s open per year:				300	days		
Estimated year	arly yards into processi	ng facility.			50,000	_	r yds ³	
(if applicable)						(about 2	5% risidual)	
Annual energy	production:							
	ecovery projects:					megawat	ts	
/	ergy incinerators:					megawat		
						- ~		

BRIEFING MEMO FOR

Daggett Sand and Gravel, Inc. Processing Plant and Recycling Facility

OPERATING LICENSE

October 1996 and modified by SWPS on December 4, 1996

1 FACILITY INFORMATION

1 Name: Daggett Sand and Gravel, Inc., Processing and Recycling Facility

2 Owner: Daggett Sand and Gravel, Inc.

3 Location: 1010 East Sheridan Road

Lansing, Michigan 48906

4. Contact: Mr. Curt Daggett 517-487-2224

Area to be permitted: 8 74 acres located in the SW 1/4, Section 34, T5N, R2W, Dewitt

Township, Clinton County

II EXISTING COMPLIANCE STATUS

There are no compliance issues as this time

III. AREA TO BE LICENSED/PERMITTED ADEQUACY

1 Facility Description

The facility is a 100 foot by 150 foot building where Daggett conducts Type III waste sorting activities. There is also an active Type III landfill consisting of approximately 10 acres at the same site which has a separate operating license issued under Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Four of the acres have been capped with clay and are certified closed. The processing facility is located in Clinton County. The existing landfill operation is located in Ingham County.

Leachate Chilection System

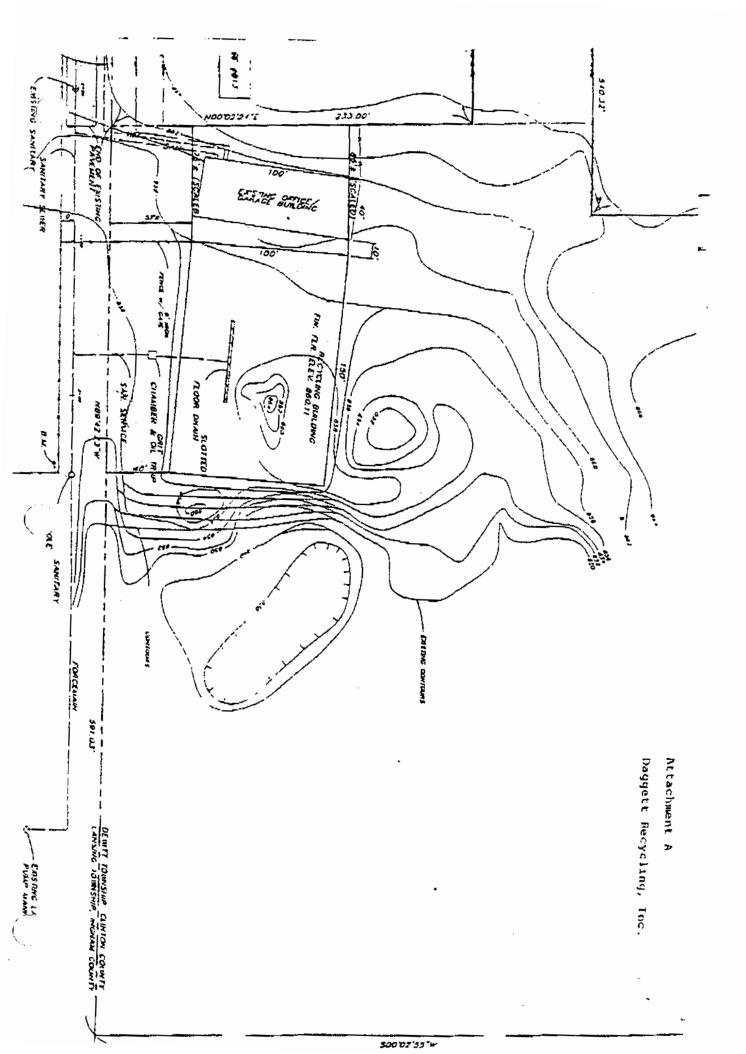
All processing activities are done in the building on a concrete floor. The floor is sloped to a sump that collects leachate. The leachate will flow by gravity from the sump to the sanitary sewer. The entire floor, including the leachate collection sump, was sealed with Decksaver C scalant by Metalerete, and Flexfill joint filter by Metalerete.

3. Liner Design

Not applicable

4. Variances

None



Daggett Sand And Gravel Processing Facility Type III Materials



Current permitted area - 8.74 acres located in the SW 1/4 Section 34, T5N, R2W

Facility Type: Type II Landfill Facility Name: City Environmental Services Landfill Inc. of Hastings County: Barry Location: Town: 3W Range: 8N Section(s): 6							
Map identifying location included in Attachment Section: ✓ Yes ☐ No							
If facility is an Incinerator or a Transfer S Station wastes: ☐ Public ☑ Private Owner:		isposal site and location for Incinerator ash or Transfer					
Operating Status (check) Open closed licensed unlicensed construction permit open, but closure pending Explanation of special wastes, including foundry sand, fly ash, waste water sludges	reside comm indust constr contar specia other:	nercial rial ruction & demolition minated soils l wastes * asbestos					
Site Size: Total area of facility property: Total area sited for use: Total area permitted: Operating: Not excavated: Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume:	335 108 30 19.5 10.5 * 10+ 308 175,000	acres acres acres acres acres acres cres cres tons or yds³ years days tons or yds³					
(if applicable) Annual energy production: Landfill gas recovery projects: Waste-to-energy incinerators:	<u>NA</u> <u>NA</u>	megawatts megawatts					

^{*}Current construction permit capacity is 3 million cubic yards. The Barry County Solid Waste Plan and the Barry Dunty, City Management Host Community Agreement authorizes 18 additional acres of cell development. This 18 acre pansion will increase total capacity to 5 million cubic yards. 18 acre expansion was submitted to the MDEQ on 12/30/97.

CTLL 2-03 ACT 87 CDL: 2-01 CELL 2-02 CELL 6 CELL 5 CELL 2-04 (ACTMC) ACT 87 (CASED) LEGEND PROPERTY BOUNDARY APPROXIMATE LOCATION OF EXISTING REFUSE LANTS DELIMATED WETLANDS LEMITS (AS MAPPED BY ROBERT LEMITON, ASSOCIATES, 1/19/95) ##21-26°E FIGURE D-1 GENERAL SITE PLAN CITY ENVIRONMENTAL SERVICES LANDFILL, INC. OF HASTINGS HSS-GSP. DATE: 10/3/97

Facility Type: Type II Landfill				
Facility Name: C&C Landfill				
County: Calhoun	Location:	То w п: <u>15</u>	Range: <u>6W</u>	Section(s): <u>28</u>
Map identifying location include	ed in Appe	ndix D: <u>X</u> Yes _	_No	
If facility is an incinerator or training incinerator ash or transfer state	ansfer station wastes	tion, list the final di ::	sposal site and	location for
Public <u>X</u> Private Owne	r: Brownin	g-Ferris Industries	of SE Michigan	
Operating Status X Open Closed X Licensed Unlicensed Construction Permit Open, But Closure Permit *Explanation of special wastes, and semi-solid wastes; no haza	including	X Com X Indu X Cons X Cons X Spec X Othe	lential mercial strial truction and Di aminated Soils ial Wastes* r: <u>Type III Was</u>	stes_
Total area of facility property: Total area sited for use: Total area permitted: Operating: Not excavated: Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volunt Annual energy production: Landfill gas recovery project Waste-to-energy incinerators	nes: ts:	224 154 129 33 21 7,570,00 7 286 1,000,00	Years Days	rds
In accordance with this Plan Landfill is authorized to expand When combined with the existing capacity of 14,000,000 cubic y	d by 16 ac ng availab	res of refuse fill are le landfill space, the	ia in addition to is additional are	the existing facility. ea will result in total

ndfill and final elevation after closure shall be no higher than 1090 feet above sea level. Such final elevation shall be certified by a Michigan registered lond surveyor or Michigan

licensed engineer

C & C EXPANDED SANITARY LANDFILL PHASE IV CELL B - ATTACHMENT A

MONITORING LOCATIONS
. PAGE 1 DF 2



15 MILE ROAD WW-21 *w=-36 COCCHERATION P-144 DO LEACHAIR FA AR STRIPPEN PHASE E ·01-3 SECHENT E -PRESENT CELL A LONIS PHASE IN 5C5 1/ A PHUSE IV CELL AZ SOUTH STORMMAJER A-01-BUNIENANCE CELL AI EUIL DONG DESENSION 1.78 AC. (4CIME) ial ic **PDMD** ACCESS ROAD TO THE PHASE N -- PRESENT CELL B LIMITS COM PHASE I SEGNENT IT PHASE N etw-IA 10.0 40. UNICONSTRUCTED SCS N B CELL B1 29 at. Cb2-٥, PHASE III (ACTAC) CELL A PHASE III CELL D W-79 CT-194 49 AC. 14 KG ٥... PHASE IV **** PHASE II 41-75 CRL C SECULNI . (UNCOHSTRUCTED) SCS N C PHASE E 19.7 AL ₩ I)-0. CCIL B *----Sar FHASE M **FUTURE CONSTRUCTION LIMIS** 1,2 AL CELL C PHUSE A O_{MF-PR} SEGMENT I XS 81-81 O. SCS MI-E 14-34 10 Marsi . 4: 10 00 mm-15 0.71 W-375 OW-5 CURRENT STOCKFILE AREA LEGEND LANDFILL FROSPRINT PHIST Y PHASE V 97-30 27-30 EXISTING CELL A CELL B MONITOR WELL SOIN MH-345 HORIN STORVANIER DETERTION (MICCHISTAUCTED) **EURCONSTRUCTED** PURCE WELL 144 AC. 3.12 AC. DBSERVATION WELL 130 POND GAS PROBE SCS V A D 交5 V B O, PIEZOMETER EXTRACTION WELL A14-36 F 447-52 CI_F CONDENSATE PUMP STATION SOIN SURFACE WATER MONITORING POINT SECONDARY COLLECTION SYSTEM SCS N A SAMPLING LOCATION **[60(-1**] GRAVITY DRAW LINE SAMPLING PC

PAGE 2 Or 2 $= 500^{\circ}$ 15 MILE ROAD COCEMERATION CAS STONET TARS AR STEIPPER PHÁSE 1 SEGNÍÐIT Í PHASE N CELL AZ ITUOR POPRIMINA HOTHORISO OHOP MAINTENANCE BUILDING ACCESS FOAD arnet 🗆 🧳 PHÁSE Í SECLIBIT OF UNICONSTRUCTED PHASE II PHASE SI --- CELL A -(#ITER#/)-ACTIVE AREA PHASE II SÉGMENT PHASE N CDT C SEGMENT 11 (UHCCHSTRUCTED) PHASE BY PHASE IN - FUTURE CONSTRUCTION LANTS PHASE I SECUTENT CURRENT STOCKPILE AREA LANDFILL FOOTPRINT PHASE V PHASE Y LEGEND DOSTINO MORTH PROPAGATION DETENDENCH CELL A (UNCONSTRUCTED) (UNCONSTRUCTED) 848 AG SM AC PROPERTY LINE POND SOUD WASTE DISPOSAL AREA 14.05 ACRES ACTIVE AREA 9.25 ACRES INTERNI COVER NOTE: MANTENANCE ROAD ON WESE 9.40 ACRES PHASE W, CELL B SLOPE IS NOT THAT COVERED. 38.15 ACRES CERTIFIED FINAL COVER UDWESTERN CONSULTING BA Emphasis ... SHE Pleas Dies ... HISE Parts Dies ... HISE HISE ... HISE . REVISED 9/23/96 94009ATI DWG

PHASE IV CELL D - MI INCIDIA

CONSTRUCTION SCHEMATIC

Facility Type: Type II Landfill

Facility Name: Citizen's Disposal

pending

County: Genesee

Location: Town: 6 N Range: 6 E Section(s): 23_

Map identifying location included in Attachment Section: Yes X No

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

Station wastes: N/A

Public X Private Owner: Allied Waste Industries, Inc.

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

X residential open Х closed commercial X Х licensed industrial

unlicensed Х construction & demolition construction permit Х contaminated soils open, but closure X special wastes *

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

All special waste requires prior review and approval including analytical data and waste profile - non-hazardous only

other: asbestos

Site Size:

Total area of facility property:	300 +/-	acres
Total area sited for use:	<u>300 +/-</u>	acres
Total area permitted:	<u>52</u>	acres
Operating:	<u>52</u>	acres
Not excavated:	<u>80</u>	acres

tons or X yds³ Current capacity: 5.3 million

Estimated lifetime: years Estimated days open per year: days

Estimated yearly disposal volume: 5 million _ tons or X yds³

(if applicable) Annual energy production:

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

Note: Numbers are listed as they were reported from facility.

Facility Type: Type II Landfill

Facility Name: Brent Rim Landfill

County: Genesee

Location: Town: 9 N Range: 5 E Section(s): 23

Map identifying location included in Attachment Section: Yes X No

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

Public X Private Owner. USA Waste/Waste Management

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

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

Site Size:

<u>Site 3126.</u>	
Total area of facility property:	160 acres
Total area sited for use:	<u>90</u> acr≃s
Total area permitted:	<u>30</u> acres
Operating:	15 acres
Not excavated:	45 acres
Current capacity:	10.247.000 _ tons or X yds)
Estimated lifetime:	18 years
Estimated days open per year:	312 days
Estimated yearly disposal volume:	720,000 tons or X yds ²
. , .	

(if applicable)

Annual energy production:

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

Note: Numbers are listed as they were reported from facility.

acility Type	: Type III La	indfill					·····-		
Facility Nam	e: Daggett S	and & Gr	avel				· - ···		
County:	Ingham		Location:	Town:	T4N	Range:	R2W	Sections(s)	3
Map identify	ing location inc	luded in At	tachment Section:		Yes		<u>x</u>	No	
If facility is a wastes:	n incinerator or	a transfer	station, list the fina	al disposal	site and locat	ion for inciner	ator ash	or transfer station	
	Public	x	Private		Owner: Dag	gett Sand 8	Gravel	, Inc.	
Operating S	tatus (check)				Waste Types	Received (ch	neck all th	at apply)	
x	open					residential			
	closed					commercial			
x	licensed					industrial			
	unlicensed				X	construction	& demoli	tion	
	construction	permit				contaminate	d soils		
	open, but clo	osure				specials was	stes *		
	pending					other:			
* Explanation	n of special was	stes, includ	ling a specific list a	ind/or cond	litions:	n/a	-		
Site Size:						40			
Total area si	f facility propert	y;				6.4	_acres		
Total area p						6.4	_acres acres		
	emaned.					2-3	acres		
Operating: Not excava	rted:						acres		
							-		
Current capa	acity:					60,000	tone	or yas³	
Estimated life	etime:					7	years		
Estimated da	ays open per ye	еаг:				250	days	_	
Estimated ye	early disposal v	oiume:				7,500	tons	or yds ³	
(if applicable	e)								
Annual ener	gy production:								
Landfill gas	recovery proje	cts:					megawa	atts	
Waste-to-e	nergy incinerate	ors:					megawa	atts	

racilly name	: Pitsch Sanitary		······································		·			
County:	lonia	Location:	Town:		(se e at Range:	tached)	Sections(s)	
			-					
Map :dentifyin	ng location included in	Attachment Section:	-	<u> </u>	Yes		No	
If facility is an wastes:	i incinerator or a trans	fer station, list the fina	l disposai s	ite and k	ocation for inciner	ator ash o	transfer station	
#asiçs.								
	Public x	Private	(Owner: [Pitsch Compan	iies		
Operating Sta	atus (check)		,	Waste Ty	/pes Received (cl	neck all tha	at apply)	
X	орел			x	residential			
	closed		-	<u>x</u>	commercial			
х	licensed		•		industrial			
	unlicensed		_	X	construction	& demolit	ion	
	construction permit		_	×	contaminate	d soils		
	open, but closure		•	X specials wastes *				
					other:			
* Explanation	pending of special wastes, inc	duding a specific list ar Street Sweepi			other:			
* Explanation					other:			
					other:			After Propose Expansion
Site Size:					other:	acres		
Site Size: Total area of t	of special wastes, inc					acres acres		Expansion
Site Size: Total area of t	of special wastes, income of special wastes,				148.44		. d. 430-la., v., a., v., a.	Expansion 300 acre
Site Size: Total area of t	of special wastes, income of special wastes,				148.44 28.36	acres		Expansion 300 acre 140 acre 140 acre 10 acre
<u>Site Size:</u> Total area of I Total area site Total area per	of special wastes, inc facility property: ed for use: rmitted:				148.44 28.36 78.44	_acres		Expansion 300 acre 140 acre 140 acre
Site Size: Total area of t Total area site Total area per Operating:	of special wastes, inc facility property: ed for use: rmitted:				148.44 28.36 78.44 9.87	acres acres acres acres	or — yds ³	Expansion 300 acre 140 acre 140 acre 10 acre
Site Size: Total area of total area site Total area per Operating: Not excavate Current capac	of special wastes, income facility property: ed for use: rmitted: ed:				148.44 28.36 78.44 9.87	acres acres acres acres		Expansion 300 acre 140 acre 140 acre 10 acre 40 acre
Site Size: Total area of total area site Total area per Operating: Not excavate Current capace	of special wastes, income facility property: ed for use: rmitted: ed:				148.44 28.36 78.44 9.87 70	acres acres acres acres tons 6 months	3	Expansion 300 acre 140 acre 10 acre 40 acre 2,308,225 tons
Site Size: Total area of total area site Total area per Operating: Not excavate Current capac Estimated life	of special wastes, income facility property: ed for use: rmitted: ed: city: time:				148.44 28.36 78.44 9.87 70 40,000	acres acres acres acres tons 6 months		Expansion 300 acre 140 acre 10 acre 40 acre 2,308,225 tons
Site Size: Total area site Total area per Operating: Not excavate Current capac Estimated life Estimated yea	of special wastes, income of special wastes,				148.44 28.36 78.44 9.87 70 40,000 .5	acres acres acres acres tons 6 months	3	Expansion 300 acre 140 acre 10 acre 40 acre 2,308,225 tons
Site Size: Total area of total area site Total area per Operating: Not excavate Current capace Estimated life Estimated day Estimated year	of special wastes, income of special wastes,				148.44 28.36 78.44 9.87 70 40,000 .5 307 83,000	acres acres acres acres tons 6 months	3	Expansion 300 acre 140 acre 10 acre 40 acre 2,308,225 tons
Site Size: Total area of total area site Total area per Operating: Not excavate Current capace Estimated life Estimated day Estimated year (if applicable) Annual energy	of special wastes, income of special wastes,				148.44 28.36 78.44 9.87 70 40,000 .5	acres acres acres acres tons 6 months	3	Expansion 300 acre 140 acre 10 acre 40 acre 2,308,225 tons

Notes:

Have a pending construction permit that will extend landfill life another 30 years.

5-0211880 (0.2004) - FROM FILOUR DANKIAKI DIY. 010 /84 1/08

DEQ

Michigan Department of Environmental Quality Waste Management Division

SOLID WASTE DISPOSAL AREA OPERATING LICENSE

This license is issued under the provisions of Part 115 Solid Waste Management of the Natural Resources and Environmental Protection Act, 1994 PA 451, MCL 334.11501 et seq. (Part 115), to authorize the operation of the solid waste disposal area (Facility) in the State of Michigan. This license does not obviate the necessity of obtaining other clearances and permits as may be required by state law.

FACILITY NAME: Pitsch Sanitary Landfill

GRANTED TO: Pitsch Sanitary Landfill, Inc.

TYPE OF FACILITY: Type II Landfill

FACILITY ID: 34-000016

COUNTY: Ionia

LICENSE NO. 8456

ISSUE DATE: May 22, 1997

EXPIRATION DATE: May 22, 1999

FACILITY DESCRIPTION:

The Pitsch Sanitary Landfill consists of 78 44 acres located in the N 1/2 of the

NE 1/4 of Section 7, T8N, R7W, Orleans Township, Ionia County, Michigan, as

identified in Attachment A and fully described in this license.

AREA AUTHORIZED FOR DISPOSAL OF SOLID WASTE: Phases III and IV

RESPONSIBLE PARTY TO CONTACT: Mr. Gary Pitsch, Vice President

Mr. Gary Pitsch, Vice Presiden Pitsch Sanitary Landfill, Inc. 675 Richmond, N.W.

Grand Rapids, Michigan 49504

616-363-4895

FIRST OPERATING LICENSE: This License No. 8456 is the first license issued for Phase IV.

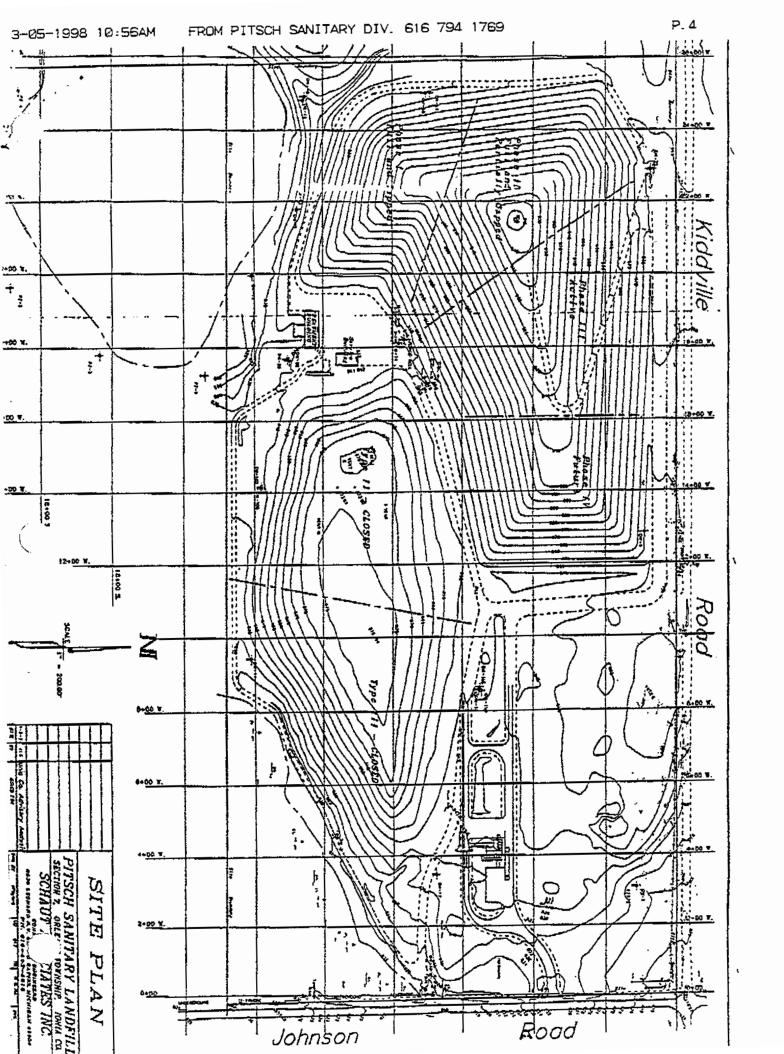
EXENEWAL OPERATING LICENSE: This License No. 8456 supersedes and replaces Solid Waste Disposal Area License No. 8061 issued to Pitsch Wrecking Company on April 12, 1993, as it pertains to Phases I through III

This license is subject to revocation by the Director of the Michigan Department of Environmental Quality (Director) if the Director finds that the disposal area is not being constructed or operated in accordance with the approved plans, the conditions of a permit or license, this act, or the rules promulgated under this act. Failure to comply with the terms and provisions of this license may result in legal action leading to civil and/or criminal penalties as stipulated in Part 115. This license shall be available through the licenses during the entire effective date and remains the property of the Director.

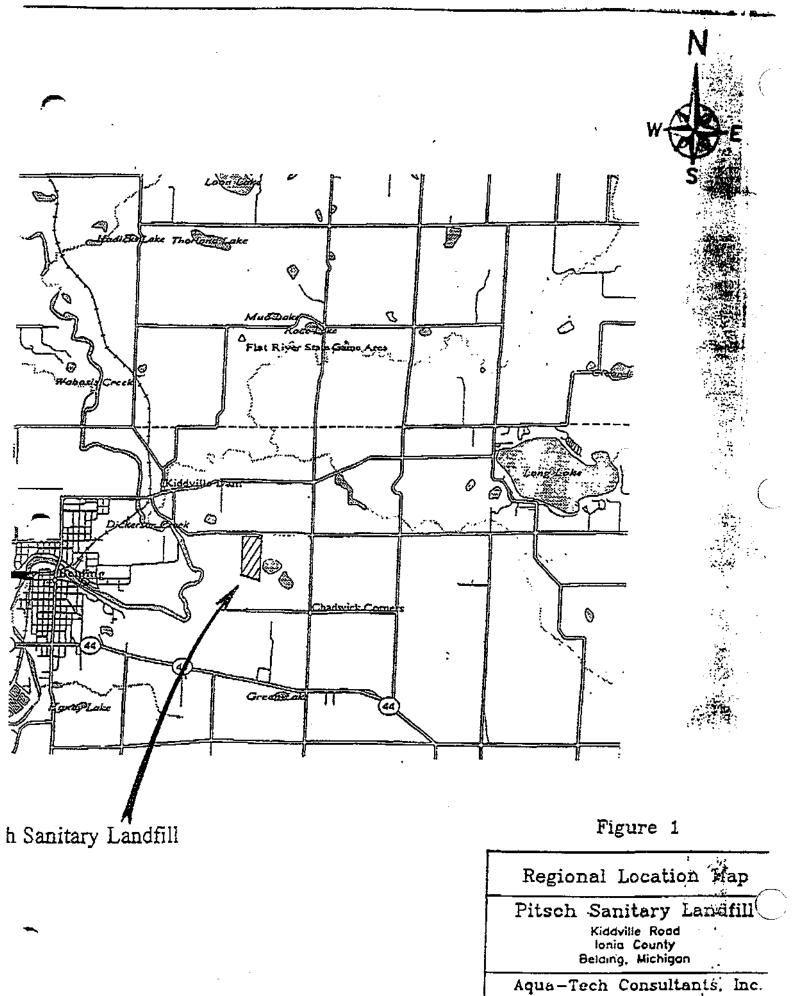
THIS LICENSE IS NOT TRANSFERABLE.

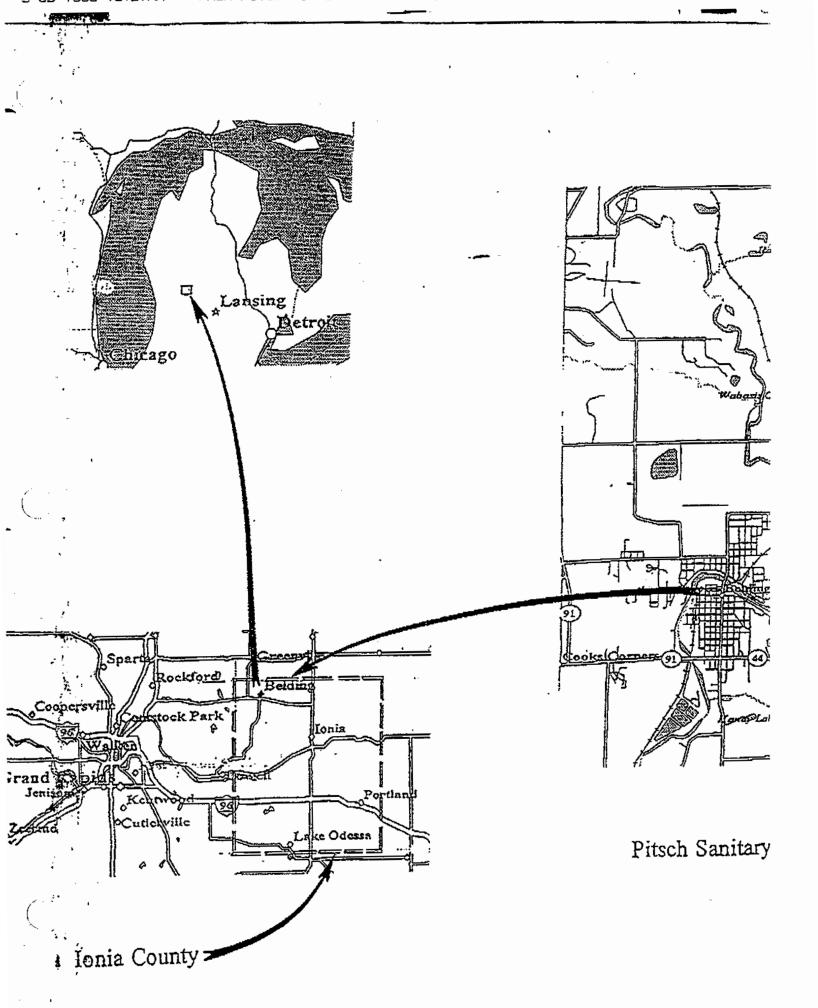
Joan At. Peck, Acting Chief, Solid Waste Program Section

Waste Management Division



1336 Scribner NW 📢





Facility Type: Solid Waste	Transfer Station
Facility Name: Eco Systems	Transfer Station - Waste Management
Commy: Ionia	Location: Town: 7N Range: 6W Section(s): 32
Map identifying location included in A	Attachment Section: X Yes No
station wastes: *See Below	r station, list the final disposal site and location for incinerator ash or transfer
Public X Private Owner:	Waste Management of Michigan Midwest
Operating Status (check) x open closed x licensed unlicensed construction permit open, but closure pending Explanation of special wastes, include	
	rinding, sludges. Demolition Processing
Site Size: Total area of facility property: Total area sited for use: Total area permitted: Operating: Not excavated: Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume:	12.21 acres 12.21 acres 12.21 acres 12.21 acres 12.21 acres N.A. acres N.A. acres N.A. acres N.A. acres
(if applicable) Annual energy production: Landfill gas recovery projects: Waste-to-energy incinerators:	N.A. megawans N.A. megawans

DEOL

Michigan Department of Environmental Quality Waste Management Division SOLID WASTE DISPOSAL AREA OPERATING LICENSE

This license is issued under the provisions of Part 115 Solid Weste Management of the Natural Resources and Environmental Protection Act, 1994 PA 451, MCL 324,11501 et seg, (Part 115), to enthorize the operation of the solid waste disposal area (Facility) in the State of Michigan. This license does not obviate the necessity of obtaining other clearences and permits as may be required by state law.

FACILITY NAME: Eco Systems Transfer Station

GRANTED TO: Waste Management of Michigan - Midwest

TYPE OF FACILITY: Solid Waste Transfer Station

FACILITY ID: 34-000003

COUNTY: Ionia

LICENSE NUMBER: 8621

ISSUE DATE: May 19, 1999

EXPIRATION DATE: May 19, 2001

FACILITY DESCRIPTION: The Eco Systems Transfer Station is located in the NW 1/4 of the NE 1/4 of

Section 32, T7N, R6W, Ionia Township, Ionia County, Michigan, as fully

described in this license.

AREA AUTHORIZED FOR THE ACCEPTANCE AND/OR PLACEMENT OF SOLID WASTE: Identified

in Attachment A of this license.

RESPONSIBLE PARTY TO CONTACT: Mr. Keith Hester, District Manager

Waste Management of Michigan - Midwest

1668 Porter Street, S.W.

Grand Rapids, Michigan 49509

616-538-1921 (Ext. 120)

☐ FIRST OPERATING LICENSE: N/A

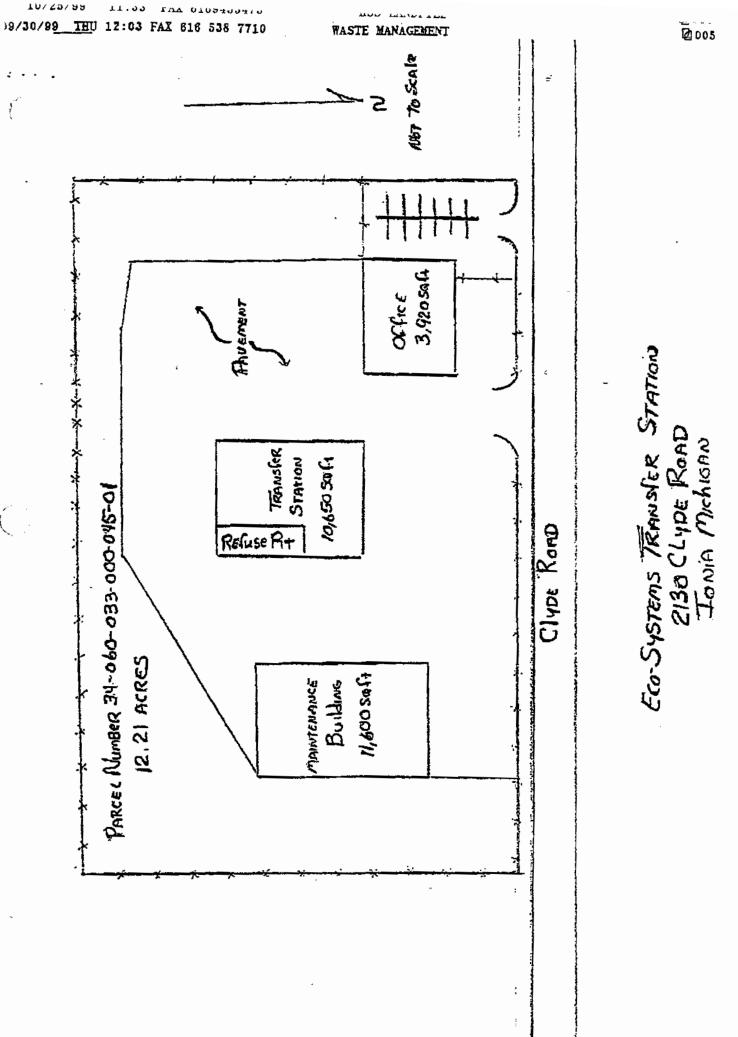
RENEWAL OPERATING LICENSE: This License Number 8621 supersedes and replaces Solid Waste Disposal Area License Number 8441 issued to Waste Management of Michigan - Midwest on February 27, 1997.

This license is subject to revocation by the Director of the Michigan Department of Environmental Quality (Director) if the Director finds that the disposal area is not being constructed or operated in accordance with the approved plane, the conditions of a permit or license, this act, or the rules promulgated under this act. Failure to compty with the terms and provisions of this license may result in legal action teading to civil and/or criminal penalties as supulated in Part 115. This license shall be available through the licensee during the entire effective date and remains the property of the Director.

THIS LICENSE IS NOT TRANSFERABLE.

Joan M. Peck, Chief, Solid Waste Program Section

Waste Management Division



Facility Type:	: Туре	II landfill			•
Facility Name	e: McG	ll Rd. Landfill			
County:	Jackson	Loca	tion: Town: 2S	Range: IW	Section(s): 24
Map identifyi	ng location inc	luded in Attack	ment Section:	X_Yes	No
-	n incinerator or h or transfer st		on, list the final	disposal site a	nd location for
Public	_X_	Private	Owner: Waste	Management	Inc
open, l pendin	ed uction permit but closure	X X X X	e Types Receive _residential _commercial _industrial _construction a _contaminated _special wastes _other: ding a specific li	and demolition soils	itions: Incinerator ash
Site Size: Total area of a Total area site Total area per Operating: Not excavate	mitted:	y:	50.5 acres 50.5 acres 18.7 acres 7.8 acres acres		
		r:	740,000 cubic 5 years 310 days 148,000 cubic		
_				waits waits	

Facility Typ	e: Type II Landfill	 -						 ,	
Facility Name: South Kent Landfill									
County:	Kent	Location:	Town:	5 N		Range:	12W	Sections(s)	36
Map identif	ying location included i	n Attachment Section:			Yes		x	- No	
If facility is wastes:	an incinerator or a tran	sfer station, list the final o	disposal	site and	location t	for incinera	ator ash	or transfer station	1
<u> </u>	Public	Private		Owner:	Kent C	ounty		-	<u>_</u>
Operating \$ X X X	Status (check) open closed licensed unlicensed construction permit	t		X X X X X	res co inc co	oceived (ch sidential mmercial fustrial nstruction ntaminated ecials was	& demoi i soils tes *	hat apply) lition erator ash	
* Explanation	on of special wastes, in	icluding a specific list and	Vor cond	litions:				-	
		· · · · · · · · · · · · · · · · · · ·		······································					
Total area : Total area ; Operating	:					250 112 112 31	acres acres acres		
	pacity:	:				81 ,600,000 38 310 155,000	tons years days tons	or _yde² (1,50 or _yde³	D, 000 tons ash)
(if applicab Annual end Landfill ga						N/A N/A	-		

FACILITY DESCRIPTIONS Facility Type: Landfill Facility Name: Central Sanitary Landfill County: Montcalm Location: Town: 11 Range: 10 Section(s): 21 Map identifying location included in Attachment Section: X Yes \(\sigma\) No If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: Public X Private Owner: Allied Waste Waste Types Received (check all that apply) Operating Status (check) residential open X X commercial closed X industrial licensed X construction & demolition unlicensed construction permit X contaminated soils special wastes * open, but closure other: pending * Explanation of special wastes, including a specific list and/or conditions: foundry sand, asbestos Site Size: Total area of facility property: acres Total area sited for use: 35.92 acres Total area permitted: 20.37 acres 20.37 Operating: acres 2.83 Not excavated: acres 373,428 tons or X yds Current capacity: Estimated lifetime: 2 years Estimated days open per year: <u> 306</u> days

Estimated yearly disposal volume:

Annual energy production: Landfill gas recovery projects:

Waste-to-energy incinerators:

(if applicable)

100,000

N/A

N/A

 \square tons or X yds³

megawatts

megawatts

SELECTED SYSTEM FACILITY DESCRIPTIONS

Facility Type: Landfill

Facility Name: Eagle Valley RDF

County: Oakland Location: Town: 4N Range: 10E Section(s): 26, 27

Map identifying location included in Attachment Section: X Yes No

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

Public Private Owner: Waste Management

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

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

Contaminated soils, chemical containing equipment, coal ash, filter cake, contaminated residuals, incinerator ash, industrial process waste, non-friable asbestos, treated medical wastes, treatment plant sludge, paint filters.

Site Size:

Waste-to-energy incinerators:

Olfe pitte.		
Total area of facility property:	<u>330 </u>	acres
Total area sited for use:	<u>330</u>	acres
Total area permitted:	<u>89</u>	acres
Operating:	<u>76</u>	8¢T&S
Not excavated:	<u>13</u>	acres
Сителя сарасну:	<u>4,700,000</u>	tous or 🖾 yds³
Estimated lifetime:	<u>5.9</u>	years
Estimated days open per year:	<u> 286</u>	dzys
Estimated yearly disposal volume:	<u>1,650,000</u>	nons or 🖾 yds²
(if applicable)		
Annual energy production:		
Landfill gas recovery projects:	<u>N/A</u>	III E SA WAITS

<u>N/A</u>

megawatts

SELECTED SYSTEM FACILITY DESCRIPTIONS

Facility Type: Landfill						
Facility Name: Oakland Heights Development						
County: <u>Oa</u>	kland Location: Auburn 1	Ր օ wը։ <u>3</u>	N Range: 10E	Section(s): 2		
Map identify	ring location included in Attack	ment Se	ection: 🗵 Yes 🏻] No		
-	on Incinerator or a Transfer St tion wastes: <u>N/A</u>	a tion, li	st the final dispos	al site and location for Incinerator ash or		
□ Public 🗵	Private Owner: Allied					
Operating St	ams (check)	Waste	Types Received (check all that apply)		
X	open	X	residentia)			
	closed	X	commercia	el		
X	licensed	X	industrial			
₽	unlicensed	X	CONSTRUCTE	on & demolition		
	construction permit	X	contaminat	ted spils		
	open, but closure pending	□ È	special was			
_	a of special wastes, including a ardous material	specific	e list and/or condi	itions:		
Site Size:						
Total area of facility property:			<u>179.74</u>	acres		
Total area sin				acres		
Total area permitted:			63.87	acres		
Operating:		63.87		acres		
Not excavar	ed:		22.1	acres		
Current capa:	city:		<u>3,500,000</u>	□ tons or ⊠yds³		
Estimated lifetime: 4 years						
Estimated days open per year: 309 days						
Estimated yearly disposal volume: 500,000 tons or 🖾 yds³						
(if applicable))					
Annual energ						
Laudfill gas	recovery projects:		N/A	megawans		
Waste-to-energy incinerators: N/A megawatts						

FACILITY DESCRIPTIONS Facility Type: Type II Landfill Facility Name: Ottawa County Farms Landfill Location: Town:8N Range: 14WSection(s): 26,27 County: Ottawa Map identifying location included in Attachment Section: X Yes \ \ \ \ \ No If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: ☐ Public ☑ Private Owner: Allied Waste Operating Status (check) Open closed licensed unlicensed construction open, but c Waste Types Received (check all that apply) residential commercial industrial construction & demolition construction permit contaminated soils special wastes * open, but closure <u>pending</u> 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

16,500,000

25-30

286

500,000

(if applicable)

Current capacity:

Estimated lifetime:

Annual energy production:

Estimated days open per year:

Estimated yearly disposal volume:

Landfill gas recovery projects: 4,565 megawatts 3,500 volts

Waste-to-energy incinerators: NA megawatts

X tons or ∏yds³

tons or yds³

years

days

Facility Name: Autumn Hills Recycling & Disposal Facility Location: Town: 5N Range: 14W Section(s): 36 County: Ottawa Map identifying location included in Attachment Section:

✓ Yes □ No If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes: NA Owner: Autumn Hills RFD - A Division or Waste Management of Public x Private Michigan, Inc. Waste Types Received **Operating Status** residential \times open X commercial closed licensed X industrial × construction & demolition unlicensed \boxtimes contaminated soils construction permit X X special wastes* open, but closure X other: Pending *Explanation of special wastes, including a specific list and/or conditions: exhausted oak wood trays, minor first aid waste, contaminated pharmaceuticals manufacture, paint booth filters, dewatered waste water treatment sludge, out of spec/out of date food supplements, spent epoxy powder coatings, sand blasting sand, woodchips/dust from production, shot blast, construction and demolition materials, foundry sand, filter press cake, incinerator ash, saw dust, contaminated soils, auto fluff, asbestos, grinding sludge, carwash sand pit/traps, and food materials. Site Size: Total area of facility property: 314 acres Total area sited for use: 197 acres 99.3 acres Total area permitted: 35.1 acres Operating: 64.2 acres Not excavated: tons or □ yds³ 20.75 mil Current capacity:

Annual energy production: Landfill gas recovery projects:

Estimated days open per year:

Waste-to-energy incinerators:

Estimated yearly disposal volume:

Estimated lifetime:

NA acres

years

days

tons or □ yds³

30.2

286_

500,000

Facility Type: Type II Landfill Facility Name: People's Landfill

County: <u>Saginaw Location</u>: Town: <u>10N</u> Range: <u>5E</u> Section(s): <u>15</u>

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

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

wastes: N/A

Public X Private Owner. USA Waste/Waste Management

Operation	ng Status (check)	Waste Ty	ypes Received (check all that apply)
x	open	X	residential
-	closed	X	commercial
X	licensed	X	industrial
_	unlicensed	. X	construction & demolition
-	construction permit	X	contaminated soils
_	open, but closure	X	special wastes *
	pending	-	other:

^{*} Explanation of special wastes, including a specific list and/or conditions: asbestos, sludge, soil, ash

Site Size:

Site Size:		
Total area of facility property:	<u>163</u>	acres
Total area sited for use:	<u>110</u>	acres
Total area permitted:	2 9.1	BCTCS
Operating:	2_	acres
Not excavated:	<u> 100</u>	acres
Current capacity:	<u>5.301.641</u>	_tons or X yds
Estimated lifetime:	<u>20</u>	years
Estimated days open per year:	<u>254</u>	days
Estimated yearly disposal volume:	1000	X tons or yds

(if applicable)

Annual energy production:

Landfill gas recovery projects: 3.2 ** megawatts

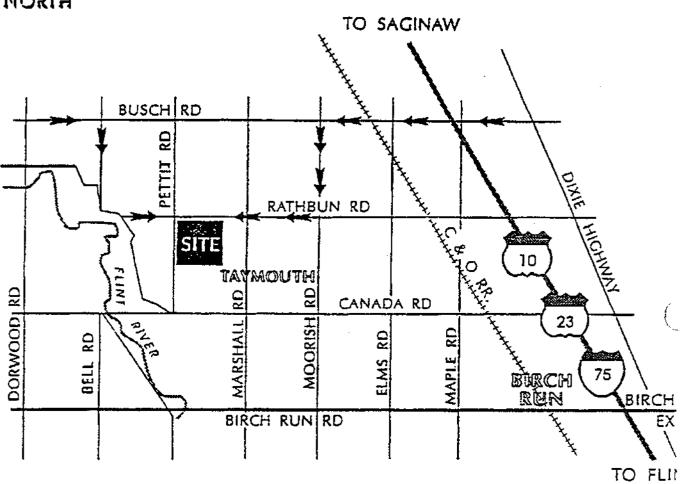
Waste-to-energy incinerators: N/A megawatts

Note: People's Landfill has been approved by the Site Review Committee in 1993 for a 53 acre expansion. The permit was issued in 1993, but it has lapsed. People's has plans to renew the permit and begin excavation within a year. Note: Numbers are listed as they were reported from facility.

^{**} This is a combined total for People's Landfill and Taymouth Landfill.

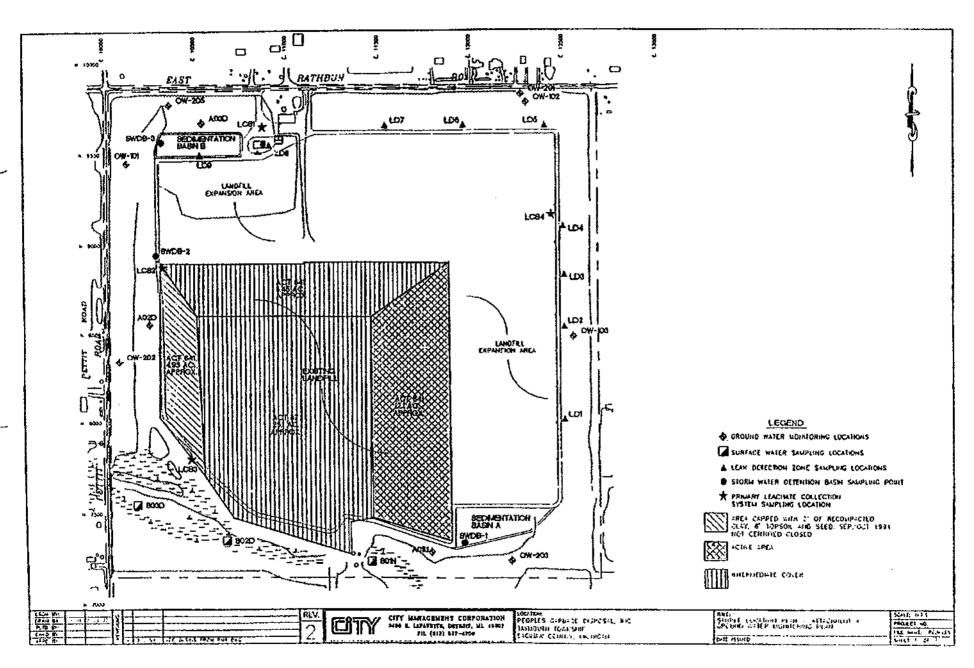
DESIGNATED HAUL ROUTE







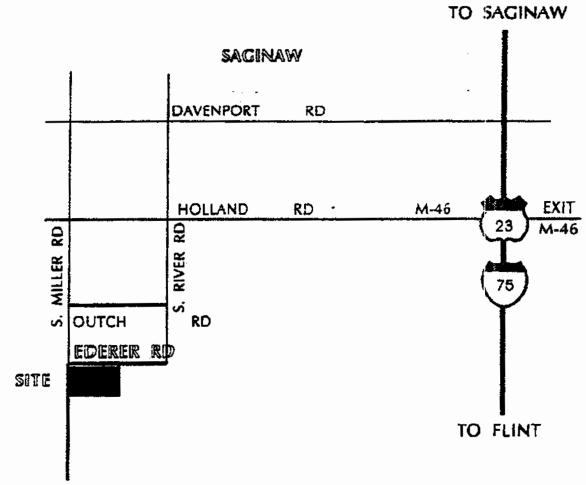




. inty type	: туре п								
Facility Nam	e Saginaw V	alley Lar	ndfili						
County:	Saginaw	······	Location:	Town:	T11N	Range	e: R3E	Sections(s)	NW1/4 Sec.1
Map identify	ing location incl	uded in At	tachment Section:			_ Yes		No	
If facility is a wastes:	n incinerator or	a transfer	station, list the fina	l disposal	site and	location for incine	rator ash	or transfer station	
	Public	<u> x</u>	Private		Owner:	USA Waste /	WASTE	E MANAGEM	<i>ε</i> ν:
-	open closed licensed unlicensed construction p open, but close pending	sure	ing a specific list ar	nd/or cond	x x x x x	ypes Received (oresidential commercial industrial construction contaminal specials with other:	nl on & demo ted soils		
Total area sit Total area per Operating: Not excavat Current capa Estimated life Estimated da	ermitted: ted: city:	ar:				84.25 90 51 one 260 240,000	acres acres acres acres tons year days		
(if applicable) Annual energ Landfill gas	,	ots:	None				mega mega		

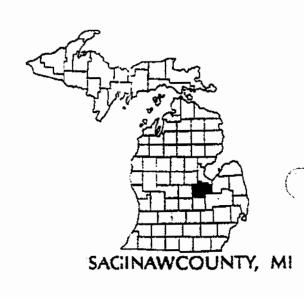
SAGINAW VALLEY LANDFILL





SAGINAW VALLEY LANDFILL 2145 S. MILLER ROAD SAGINAW, MI

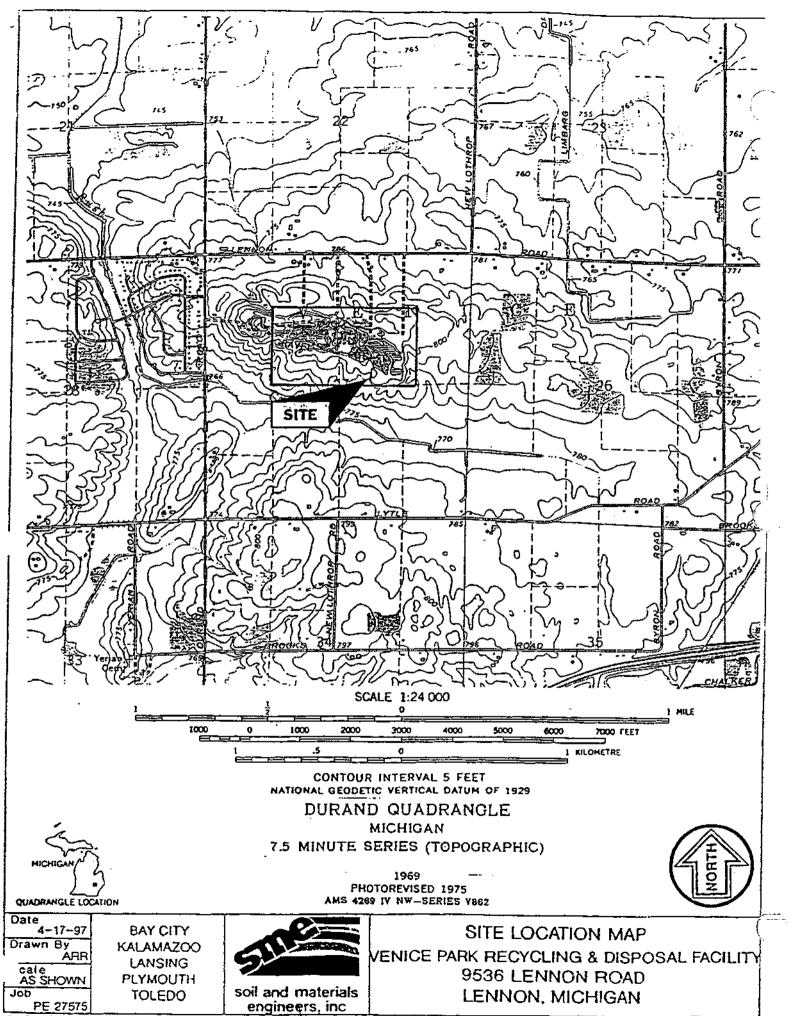
PHONE: (517) 781-1557



Facility Type:	Type II							
Facility Name	Taymouth Lang	sfift						
County:	Saginaw	Locatio	n: Town:	10N	Range:	<u>5E</u>	Sections(s)	15
Map identifyin	g location included	in Attachment Se	ection:	<u> </u>	Yes		No	
If facility is an wastes:	incinerator or a tra	nsfer station, list t	the final disposa N/A	l site and	location for inciner	alor ash or	transfer station	l
	Public	c Private		Owner:	REPUB	نآن		
Operating Sta	tus (check)			Waste 1	Types Received (ch	eck all that	apply)	
X	open			x	residential			
	closed			<u>x</u>	commercial			
	licensed			×	industrial			
	unlicensed			<u>x</u>	construction	& demolitio	n	
×	construction perm	it		×	contaminated	d soils		
	open, but closure			×	specials was	tes *		
	pending				other:	_		
		Asbesto	<u>s</u>					
Site Size:	lacility property:				138.89	acres		
Total area site					43	acres		
Total area per					25	acres		
Operating:					15	acres		
Not excavate	ed:				10	acres		
Current capac	aity:				1.3M.CY	tons or	yds ³	
Estimated life					7-8	years		
Estimated day	ys open per year.				260	days		
Estimated year	иty disposal volum	3 :			216,000	tons or	yds³	
(if applicable)								
Annual energy	y production:							
Landfill gas (recovery projects:					_	Granger Ele	
Waste-to-en	ergy incinerators:					-	Methane Pla	int
Notes:								

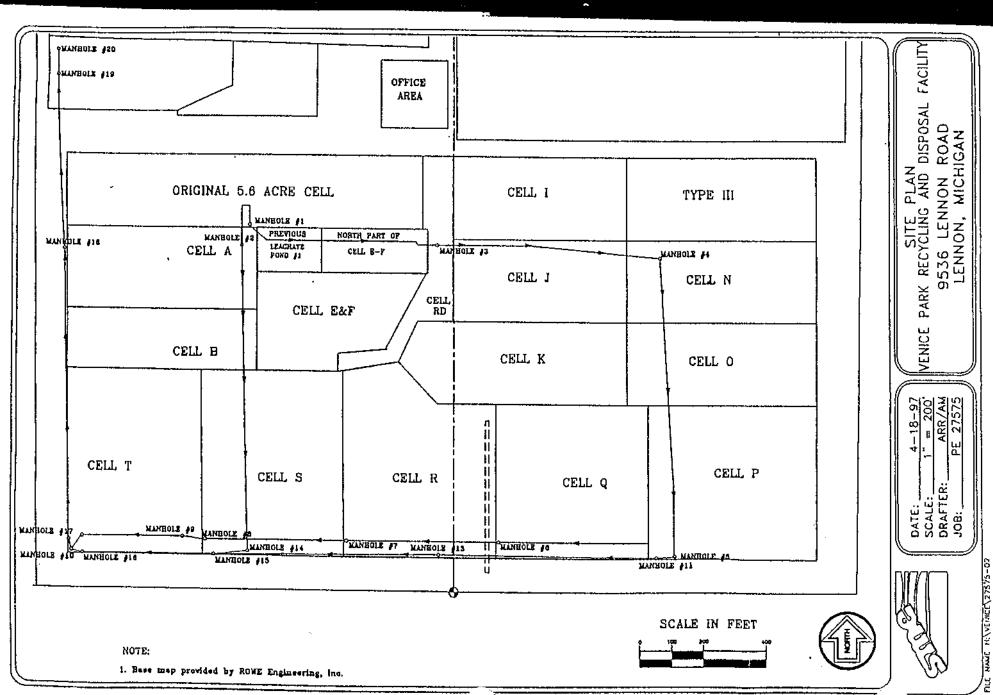
Final height is 730 feet above sea level. 120 feet above ground level. Grazing livestock after closure

Facility Name: Venice Park Recycling and Disposal Facility County: Shiawassee Location: Town: 7N Range: 4E Sections(s) 27 Map identifying location included in Attachment Section: x Yes No If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes: Public x Private Owner: Waste Management of Michigan, Inc. Operating Status (check) Waste Types Received (check all that apphy) x open x residential closed x commercial ficensed x industrial unificensed x industrial unificensed x construction permit x contaminated soils open, but closure x specials wastes a pending x other: Mon-hazardous fliguids for solidification open, but closure x specials wastes a pending x other: Mon-hazardous fliguids for solidification in the property of the residency of t	`Faculty Type:	Recycle ar	d Dispo	sal Facility - Non	-hazardous					·-·	
Map identifying location included in Attachment Section: X	Facility Name	Venice Par	k Recyc	ing and Disposa	l Facility		· · · · · · · · · · · · · · · · · · ·			•	
If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes: Public x Private Owner, Wasta Management of Michigan, Inc.	County:	Shiawasse	e	Location:	Town: 7N		Range:	4E	-	Sections(s)	27
Public x Private Owner, Waste Management of Michigan, Inc. Operating Status (check) Waste Types Received (check all that apply) x open	Map identifyin	g location incl	uded in Att	achment Section:	x		Yes		- N	0	
Operating Status (check) X open X residential closed X commercial licensed X construction & demolition construction permit X contaminated soils open, but closure pending *Explanation of special wastes, including a specific list and/or conditions: Contaminated soils, sludges, filter cake, process wastes, coal ash, foundry sand, chemical containing equipment, used containers, treated medical waste, contaminated demolition debris, street sweeping, sediment trap materials, as bestos. Site Size: Total area of facility property: Total area side for use: Total area side for use: Total area spermitted: Operating: Not excavated: 2.5 acres Current capacity: Estimated lifetime: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume: Landfill gas recovery projects: 1,2500 megawatts		incinerator or	a transfer	station, list the final	disposal site a	nd to	ocation for incinera	tor ash	or tran	sfer station	
x open x closed x commercial licensed x industrial unlicensed x construction & demolition construction & demolition construction & demolition construction permit x construction & demolition construction permit x construction & demolition open, but closure x specials wastes * pending x other: Non-hazardous liquids for solidification x contaminated soils, sludges, filter cake, process wastes, coal ash, foundry sand, chemical containing equipment, used containers, treated medical waste, contaminated demolition debris, street sweeping, sediment trap materials, as bestos. Site Size: Total area of facility property: 331 acres Total area sited for use: 80 acres Total area permitted: 69 acres Total area permitted: 69 acres Coperating: 41 acres Coperating: 41 acres Coperating: 1,300,000 teas or yds³ bank remaining Estimated difetime: 2.5 years Estimated days open per year: 286 days Estimated days open per year: 286 days Estimated yearly disposal volume: 526,000 tease or yds³ Annual energy production: Landfill gas recovery projects: 12,500 megawatts		Public	<u>x</u>	Private	Own	er: <u> </u>	Waste Manager	nent of	Mich	igan, Inc.	
closed	Operating Sta	itus (check)			Was	te Ty	pes Received (ch	eck all ti	nat apı	ofy)	
iticensed	x	open			×		residential				
unilicensed X construction & demolition construction permit X contaminated soils open, but closure X specials wastes * pending X other: Non-hazardous liquids for solidification X other: Non-hazardous Non-hazardous Non-hazardous Non-hazardous Non-		dosed			x	_	commercial				
* Explanation of special wastes, including a specific list and/or conditions: Contaminated soils, sludges, filter cake, process wastes, coal ash, foundry sand, chemical containing equipment, used containers, treated medical waste, contaminated demolition debris, street sweeping, sediment trap materials, asbestos. Site Size: Total area of facility property: Total area sited for use: Coperating: Not excavated: Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume: Landfill gas recovery projects: 12,500 megawatts		licensed			<u>_x</u>	_	industrial				
* Explanation of special wastes, including a specific list and/or conditions: Contaminated soils, sludges, filter cake, process wastes, coal ash, foundry sand, chemical containing equipment, used containers, treated medical waste, contaminated demolition debris, street sweeping, sediment trap materials, asbestos. Site Size: Total area of facility property: Total area sited for use: Coperating: Not excavated: Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume: Landfill gas recovery projects: 12,500 megawatts		unlicensed				_			ition		
* Explanation of special wastes, including a specific list and/or conditions: Contaminated soils, sludges, filter cake, process wastes, coal ash, foundry sand, chemical containing equipment, used containers, treated medical waste, contaminated demolition debris, street sweeping, sediment trap materials, asbestos. Site Size: Total area of facility property: Total area sited for use: Coperating: Not excavated: Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume: Landfill gas recovery projects: 12,500 megawatts						_					
* Explanation of special wastes, including a specific list and/or conditions: Contaminated soils, sludges, filter cake, process wastes, coal ash, foundry sand, chemical containing equipment, used containers, treated medical waste, contaminated demolition debris, street sweeping, sediment trap materials, asbestos. Site Size: Total area of facility property: Total area sited for use: Coperating: Not excavated: Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume: Landfill gas recovery projects: 12,500 megawatts		-	sure	,		_	-				refer dis.
Contaminated soils, sludges, filter cake, process wastes, coal ash, foundry sand, chemical containing equipment, used containers, treated medical waste, contaminated demolition debris, street sweeping, sediment trap materials, as bestos. Site Size: Total area of facility property: Total area sited for use: Operating: Not excavated: Current capacity: Estimated days open per year: Estimated days open per year: Estimated yearly disposal volume: (if applicable) Annual energy production: Landfill gas recovery projects: Assistance of sacility and sacres and sacres and sacres are sequenced as acres and sacres are sequenced as acres are sequenced as acres acr		pending			<u>×</u>		other: Non-I	nazardo	us lig	uids for soli	<u>dification</u>
Total area of facility property: Total area sited for use: Total area permitted: Operating: Not excavated: Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume: (if applicable) Annual energy production: Landfill gas recovery projects: 331 acres 80 acres 1,300,000 tens or yds³ bank remaining 1,300,000 tens or yds³ bank remaining 2.5 years 286 days 526,000 tens or yds³ 1,300,000 tens or yds³	containers,tr	eated medica	! waste,co	ntaminated demol	ition debris,s	tree	t sweeping,sedin	ent trap	mate	erials,asbes	tos.
Total area sited for use: Total area permitted: Operating: Not excavated: Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume: (if applicable) Annual energy production: Landfill gas recovery projects: 80 acres 69 acres 1,300,000 tens or yds³ bank remaining con yds³ bank remaining or yds³ years 526,000 tens or yds³ 12,500 megawatts	Site Size:										
Total area permitted: Operating: Not excavated: Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume: (if applicable) Annual energy production: Landfill gas recovery projects: 69 acres 41 acres 7,300,000 tens or yds³ bank remaining tens or yds³ bank remaining 7,500 tens or yds³ 12,500 megawatts	Total area of	facility property	<u>/:</u>					acres			
Operating: Not excavated: Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume: (if applicable) Annual energy production: Landfill gas recovery projects: 41 acres 2.5 acres or yds³ bank remaining tens or yds³ yds³ in acres yds³ bank remaining or yds³ 12,500 megawatts	Total area site	ed for use:						acres			
Not excavated: 2.5 acres Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume: (if applicable) Annual energy production: Landfill gas recovery projects: 2.5 years 286 days 526,000 tens or yds³ (if applicable) Annual energy production: 12,500 megawatts		rmitted:						-			
Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume: (if applicable) Annual energy production: Landfill gas recovery projects: 1,300,000 tens or yds³ bank remaining days years 286 days or yds³ yds³ 12,500 megawatts		_						-			
Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume: (if applicable) Annual energy production: Landfill gas recovery projects: 2.5 years 286 days 526,000 tens or yds³ 12,500 megawatts	Not excavate	ed:					2.5	- acres			
Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume: (if applicable) Annual energy production: Landfill gas recovery projects: 2.5 years days 526,000 tens or yds³ 12,500 megawatts	Current capac	city:					1,300,000	tons	or	yds³ bank re	maining
Estimated days open per year: Estimated yearly disposal volume: (if applicable) Annual energy production: Landfill gas recovery projects: 286 days 526,000 tens or yds³ 12,500 megawatts								-		•	_
Estimated yearly disposal volume: (if applicable) Annual energy production: Landfill gas recovery projects: 12,500 megawatts			ar.				286	days			
Annual energy production: Landfill gas recovery projects: 12,500 megawatts	-						526,000	tons	or	yd s ³	
Annual energy production: Landfill gas recovery projects: 12,500 megawatts	(if applicable)										
Landfill gas recovery projects: 12,500 megawatts											
Waste-to-energy incinerators:	_	•	cts:				12,500	megaw	<i>r</i> atts		
	Waste-to-en	ergy incinerato	ors:					_			
$rac{1}{N_{max}}$	(
	A Section										



DWG NO 27575-01

Figure No. 1



re No. 2

Facility Type: Type II Landfill Facility Name: Arbor Hills Landfill

County: Washtenaw Location: Town: 15 Range: 7E Section(s): 13

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

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

✓ Private J'ublic

Owner: Browning Ferris Industries, Inc.

Operation	ng Status (check)	Waste 7	Types Received (check all that apply)
1	open	✓.	residential
	closed	✓	commercial
✓	licensed	✓	industrial
	unlicensed	✓	construction & demolition
✓	construction permit	✓	conteminated soils
	open, but closure	✓	special wastes *
	pending	✓	other: Incinerator ash, asbestos, foundry sand,
			wastewater sludges, trees and stumps.

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

Site Size:

Total area of facility property: 337 acres Total area sited for use: acres Total area permitted: 217 acres Operating: 113 acres Not excavated: 104 acres Current capacity: 6,177 ⊠mgy¹ Estimated lifetime: 17.6 years Estimated days open per year: 264 days

Estimated yearly disposal volume:

Annual energy production: 1.nndfill gas recovery projects: 18 megawatts n/a Waste-to-energy incinerators: megawatts

Proposed uses of facility site after closure:

not available

3,500,000 cubic yards

The Arbor Hills Landfill is located at the Southwest corner of Napier and Six Mile Roads in Salem Township, easily accessible by 1-275 and M-14. The landfill is owned and operated by Browning Ferris Industries of Southeast Michigan ("BFI").

The Arbor Hills Pacility consists of Arbor Hills East; a 161 acre closed landfill, and Arbor Hills West, a 337 were active landfill. The Arbor Hills Landfill was started in 1970 by Holloway Sand and Gravel. The first development, now referred to as Arbor Hills East, was started as a gravel extraction operation. The site was then lined with clay and permitted as a sanitary landfill. Holloway also designed and permitted Arbor Hills West as a clay lined sanitary landfill under Michigan Act 641.

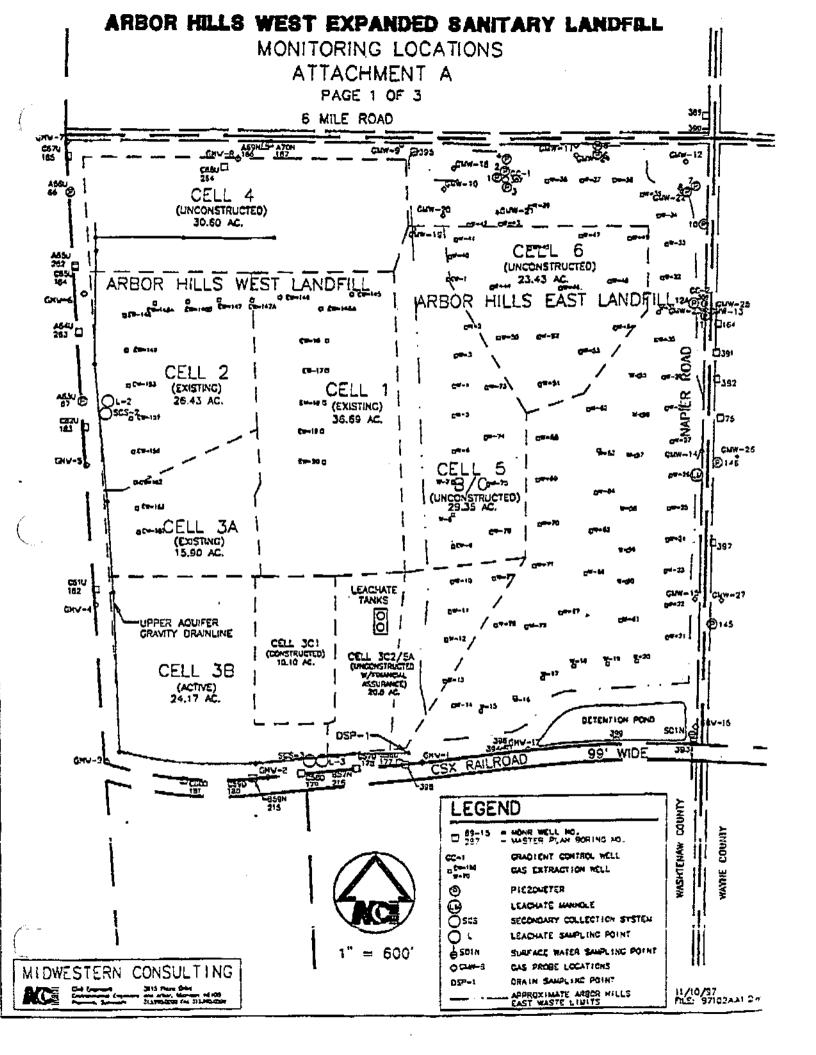
Prior to any construction beginning on Arbor Hills West and when Arbor Hills East was approximately half filled, Holloway Sand and Gravel sold the entire site to BFI. BFI continued to operate Arbor Hills East and began construction of Arbor Hills West Cell 1. BFI also improved the design of Arbor Hills West by upgrading the liner system to a double composite liner, each consisting of three feet recompacted clay and a 60 mil high density polyethylene (HDPE) liner.

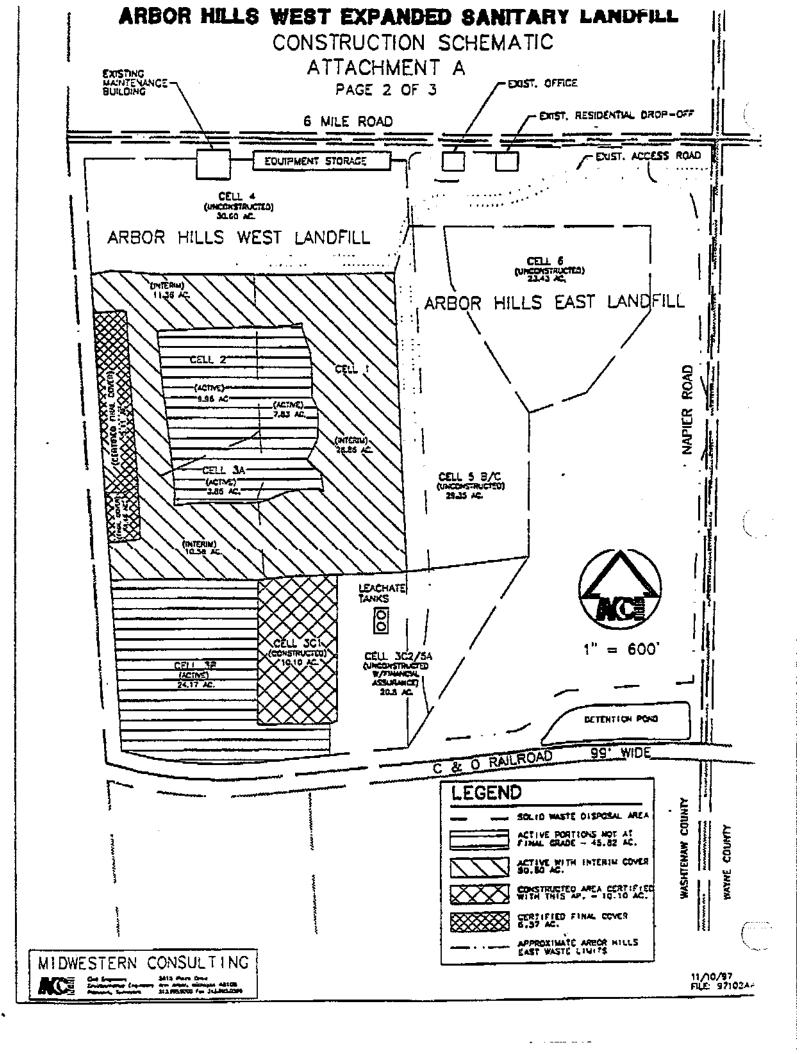
In 1990, BFI closed the Arbor Hills East facility per MDNR regulations. They installed active gas extraction and leachate collection systems in Arbor Hills East, remediated the area to the east of the landfill, and made numerous improvement to the design and operation of the landfill.

The Arber Hills West Expanded facility was permitted after the 1989 County Solid Waste Plan Update, and has become the long-term disposal site for Washtenaw County waste. It is constructed with a double composite liner, and is equipped with environmental controls that include leachate collection and leak detection systems, groundwater monitoring, and a methane gas management system.

The landfills are just one part of a larger complex in what is now called "The Arbor Hills Center for Resource Management." Other facilities on site include a material recovery facility, compost site, wood chipping operation, methane gas recovery plant, and an education center. Additional information on the recycling and composting facilities can be found in Section III.

Washtenaw County has entered into a long term agreement with BFI that guarantees disposal capacity for all waste generated within Washtenaw County through June of 2015. In addition, the agreement calls for a capacity fee to be paid to the County that helps finance local waste reduction and recycling programs. A copy of the agreement is included in Appendix D.

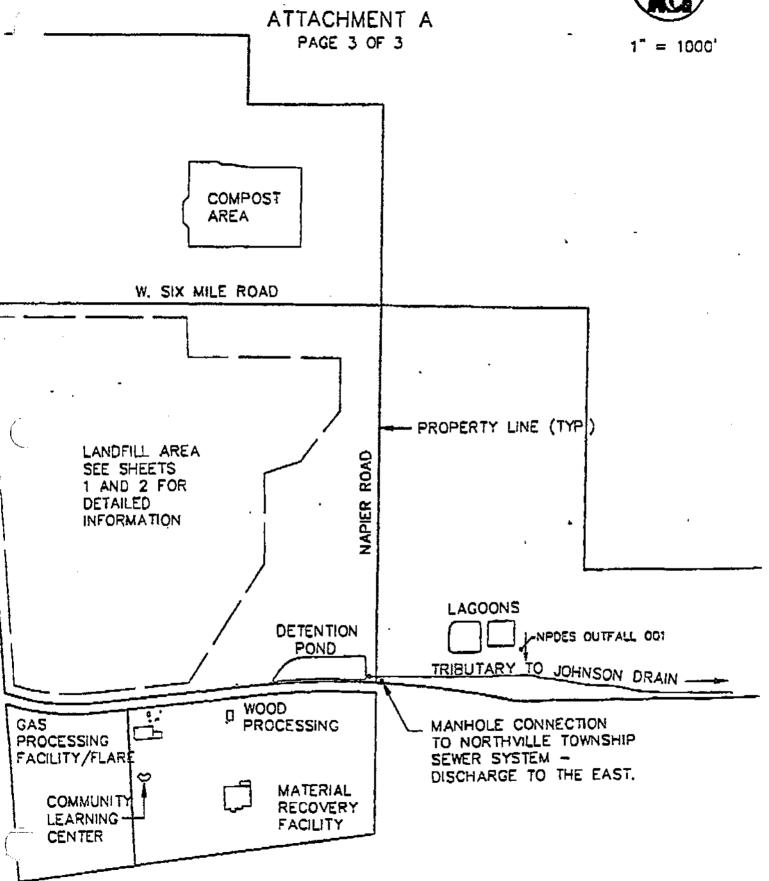




OVERALL SITE FACILITIES

(FOR INFORMATION ONLY - NOT PART OF ARBOR HILLS WEST EXPANDED SANITARY LANDFILL LICENSE APPLICATION)





DATA BASE

FACILITY DESCRIPTIONS Facility Type: Transfer Station Facility Name: City of Ann Arbor Transfer Station County: Washtenaw Location: Town: 38 Range: 6 E Section(s): 15 Map identifying location included in Attachment Section: _____ Yes ____ No If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: Arbor Hills Landfill; Salem Township, Michigan ✓___ Public __ ✓__ Private Owner: Partnership; owned by City of Ann Arbor; operated by Resource Recovery Systems Operating Status (check) Waste Types Received (check all that apply) open residential closed commercia! industrial licensed unlicensed construction & demolition construction permit contaminated soils open, but closure special wastes * pending other: Explanation of special wastes, including a specific list and/or conditions: Total area of facility property: 12 acres Total area sited for use: 12 acres Total area permitted: 12 acres Operating: n/a acres Not excavated: n/a acres n/a tons or yds? Current empacity: Estimated lifetime: 20 years Estimated days open per year. 260 days 50,000 TONS Estimated yearly disposal volume: Annual energy production: Landfill gas recovery projects: n/a megawatts Waste-to-energy incinerators: n/a megawatts Proposed uses of facility site after closure: not available

The City of Ann Arbor Transfer Station is located on the site of the closed Ann Arbor Landfill. The facility is owned by the City of Ann Arbor and operated by Resource Recovery Systems through a public-private partnership. Officially opened in September 1995, the building also encompasses a Material Recovery Facility. Over 250 tons of solid waste and 75 tons of recyclables are processed at the facility each day. Additional information on the Material Recovery Facility can be found in Section III.

The transfer station accepts both residential and commercial solid waste generated within the City of Ann Arbor. In addition, the University of Michigan has signed a ten-year agreement to deliver materials to the facility. The facility has the capacity to accommodate additional customers, and the operator is actively marketing the service.

Facility Type: Transfer S	tution	
Facility Name: Village of	Chelsea Transfer Stati	<u>D</u> N
County: Washtenaw Loca	ation: Town: 18 Ronge:	3E Section(s): 25
Map identifying location i	ncluded in Attachment S	ection: Yes No
If facility is an Incinerator Station wastes: Arbor Hil		at the final disposal site and location for Incinerator ash or Transfer aship Michigan
Public Pri Owner: Village of Chelses		
Operating Status (check)	Wasto	Types Received (check all that apply)
√ open	✓	residential
closed	✓	commercial
✓ licensed		industrial
unlicensed	✓	construction & demolition
construction	permit	contaminated soiis
орел, вы сіс		special wastes *
pending		other:
* Explanation of special w	astes, including a specifi	c list and/or conditions:
Site Size:		
Total area of facility prope	rty:	80 acres
Total area sited for use:		10 acres
Total area pennitted:		10 acres
Operating:		10 acres
Not excavated:		n/a acres
Current capacity:		n/a tons or tyds ³
Estimated lifetime:		30 years
Estimated days open per ye	ear:	208 days
Estimated yearly disposal v	volume:	25,000 TONS
Annual energy production:		
Landfill gas recovery proj		n/a mogawaiis
Waste-to-energy incineral		n/a megawatts
Proposed uses of facility si	te after closure:	not available

The Village of Chelsea Transfer Station is located at 8027 Werkner Road in Lyndon Township, adjacent to the closed Chelsea Landfill. After their landfill closed in 1991, the Village of Chelsea was required to find alternative disposal sites for waste generated by citizens and husinesses. The Arhor Hills landfill in Salem Township was selected. Located over 45 miles away, an economical means of transportation was needed. In 1994 the Chelsea Transfer Station was opened on the site of the closed landfill, to meet the needs of the Village and the citizens of adjacent Townships.

Facility Type: Type II Landfill		
Facility Name: Carleton Farms		
County: Wayne Location: Town: 4 S	Range: 8 E Section(s): 36	
Map identifying location included in Attachment Se	ection: XYes No	
If facility is an Incinerator or a Transfer Station, is	st the final disposal site and location for	Incinerator ash or
Transfer Station wastes:		•
Public Private Owner: City Management (Republic - Carl	on Farms handfill ,Inc
Operating Status (check) Open Closed Types Received (check all that apply) residential commercial industrial construction & demolition contaminated soils special wastes * other: Incinerator ash c list and/or conditions:		
Site Size: Total area of facility property: Total area sited for use Total area permitted: Operating: Not excavated:		acres acres acres acres acres
Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume:	23, 674,000 35 312 3,144,620	☐ tons or ☑ yds³ years days ☐ tons or ☑yds³
(if applicable) Annual energy production: Landfill gas recovery projects: Waste-to-energy incinerators:	<u>N/A</u> <u>N/A</u>	megawatts megawatts

Facility Type: Type II Landfill		
Pacility Name: Riverview La	nd Preserve	
County: Wavne Location: To	wn: 4 S Range: 10 E Section	(s): <u>11 & 12</u>
Map identifying location included in Att	achment Section: Yes	□No
If facility is an Incinerator or a Transfer	Station, list the final disposal site a	nd location for Incinerator ash or
Transfer Station wastes: N/A		
⊠Public □Private Owner:	ty of RIVERVIEW	
Operating Status (check) Open closed licensed unlicensed construction permit open, but closure pending Explanation of special wastes, including	Waste Types Received (check a residential Commercial industrial Construction & deficient wastes other: Type II wastes a specific list and/or conditions:	molition
Site Size: Total area of facility property: Total area sited for use Total area permitted:	404.95 239.55 212.5	acres acres acres
Operating: Not excavated:	109.69 53.46	acres acres
Current capacity: Estimated lifetime: Estimated days open per year: Estimated yearly disposal volume:	17.8 m 28 306 ~ 880,000	☐ tons or ☒ yds³ years days ☐ tons or ☒yds³
(if applicable) Annual energy production: Landfill gas recovery projects: Waste-to-energy incinerators:	max 2,400 N / A	megawatis megawatis

Facility Type:	Type II Sanitary Landfill		
Pacility Name:	Sauk Trail Hills Landfill		
County: Wayne	Location: Town: 2 S Rang	ge: 8 E Section(s):	
Map identifying locat	tion included in Attachment S	ection: Yes No	
If facility is an Incine	erator or a Transfer Station, li	st the final disposal site and location for i	incinerator ash or
Transfer Station wast	ics:		- 11.11. N Tue
☐Public ☑Private	Owner: Wayne Disposal ~	Canton Inc. Allied - Sauce	learn Hills Dev. HAC
open, h	i Sed School Sch	Types Received (check all that apply) residential commercial infustrial construction & demolition contaminated soils special wastes * other:	
Asbestos	mi wastes, morating a specifi	that distroit contactors.	
Site Size: Total area of facility; Total area sited for us Total area permitted: Operating Not excavated:		200.7 160.2 74.3 74.3 85.9	acres acres acres acres acres
Current capacity: Estimated lifetime: Estimated days open p Estimated yearly disp		19,486,236 17 ~ 310 1.838,848	toms or
(if applicable) Annual energy produc Landfill gas recover Waste-to-energy inc	y projects:	<u>N/A</u> N/A	megawatts

Pacility Type:	Type II Sanitary Landfill		
Facility Name:	Woodland Meadows Recyclin	ng & Disposal Facility	
County: Wavne	Location: Town: 3 S Ra	inge: <u>BE</u> Section(s): 1	
Map identifying loca	tion included in Attachment Se	ection: 🛛 Yes 🗌 No	
If facility is an Incine Station wastes:	eratos or a Transfer Station, li	st the final disposal site and location for	Incinerator ash or Transfer
☐ Public ⊠ Priva	ite Owner: Waste Managem	ent of Michigan, Inc.	
open, i	eck) Waste	Types Received (check all that apply) residential commercial industrial construction & demolition contaminated soils special wastes * other: c list and/or conditions:	
Site Size: Total area of facility Total area sited for u Total area permitted: Operating: Not excavated:	8C:	213.96 148 73.37 73.37 74.43	acres acres acres acres acres
Current capacity: Estimated lifetime: Estimated days open Estimated yearly disp		27,861,000 16 312 1,522,000	☐ tons or ⊠yds³ years days ☐ tons or ⊠yds³
(if applicable) Annual energy produ Landfill gas recover Waste-to-energy inc	ry projects:	<u>N / A</u> N / A	megawaits

5.9 SOLID WASTE COLLECTION SERVICES & TRANSPORTATION

Clinton County waste collection services are, and will continue to be, provided in two forms; through individual subscription with a private hauling company, or a municipally-franchised contract for service - again using a private hauling company. The following municipalities now franchise collection services for the listed items:

City of DeWitt - trash, curbside recycling

City of St. Johns - trash, curbside recycling, large item, tires, household hazardous waste

Village of Ovid - trash, curbside recycling

Village of Maple Rapids - trash, large items

Village of Elsie - trash

Watertown Charter Township - curbside recycling

As population densities increase in various areas of the county, the number of franchised contracts may grow. Waste collection services throughout the county are provided exclusively by private hauling companies. It is likely that this trend will continue. A limited number of residents will continue to take their waste directly to a landfill or bury waste on their own property. Educational efforts will encourage people to discontinue the practice of burying waste - particularly considering the quantities of hazardous substances that can be contained in household waste. Because solid waste markets continue to be somewhat competitive, residents and municipalities have some level of control over the types and costs of services they want to receive.

The City of St. Johns is the only municipality within the County to provide volume-based waste collection to residents. No change is anticipated regarding this service. With the exception of initial frustrations and some public outcry as the program was introduced, this system of waste collection has been comfortably received by residents. Their success should inspire other communities to institute similar systems.

Some haulers do provide a 'pay per bag' collection service if requested by customers. Increased education should increase demand for such service.

The following list identifies the companies currently providing waste collection services in Clinton County:

Allied Disposal Company

Granger Container Service

Pick-A-Dilley

Waste Management, Inc.

Sunrise Disposal (a subsidiary of Republic Industries)

Daggett Container Service (Construction/demolition containers only)

Not included in the above list are small independent haulers who service one-time cleanup requests from residents. Among larger hauling firms, consolidation of companies is a trend expected to continue. When the 1990 Plan was finalized, 17 companies were listed as solid waste haulers; now there are 6, one of which deals only with construction and demolition materials. Because this County borders a metropolitan area, it is hikely that some level of diversity in services will remain - thus competition and choice for the consumer. However, further consolidations could result in a monopolistic environment such that competition in some areas of the county become non-existent. At this point, consumers may be faced with limited choices and higher prices.

5.10 RESOURCE CONSERVATION EFFORTS

(The Resource Conservation Form is not used as Clinton County's data is insufficient to project diversion.)

Education

The Plan provides for education of residents about conservation through newsletters and presentations.

A quarterly *Garbage Gazette* newsletter, circulated to individual residents, schools, businesses and local governments, regularly addresses resource conservation issues. Department staff also writes and submits articles, many of which address source reduction and resource conservation, for publication in local newspapers.

All education programs emphasize that source reduction and resource conservation should be practiced *before* reuse and recycling, and that waste prevention is always preferable to recovering waste.

A special issue of County's *Garbage Gazette* newsletter, the Garbage Guide, provides a comprehensive listing of organizations that accept good, usable household items for reuse and resale.

Purchasing

Purchasing practices resulting in acquisition of high quality, repairable consumer goods rather than disposable items are, and will continue, to be encouraged through education. Raising awareness of unnecessary packaging will also be included.

The County will increase efforts to establish cooperative purchasing programs, provide resources in the form of supplier lists or directories, and educate large, institutional buyers on the benefits of buying recycled products.

Internal Practices

In the interest of setting an example and appropriate public policy practices, the County has a waste reduction policy in place for its own staff which, for example, encourages double sided copying, and other forms of waste minimization.

Business

The Plan puts emphasis on working with businesses. Business waste, recovery, and waste reduction will be integral elements of education and outreach programs. Strategies may include individualized waste audits, assistance in purchasing of recycled content products, and increased recycling. This should result in better conservation efforts and save businesses money. Successful waste reduction efforts will improve energy and resource conservation.

RESOURCE CONSERVATION EFFORTS

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

Effort Description		st. Diversion To	•		
	Current	5th Year	Year 10th Year		
NOT APPLICABLE DATA INST	JFFICIENT	TO QUANT	IFY -		
		•			
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		<u> </u>			
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5.11 WASTE REDUCTION, RECYCLING, & COMPOSTING PROGRAMS

Introduction

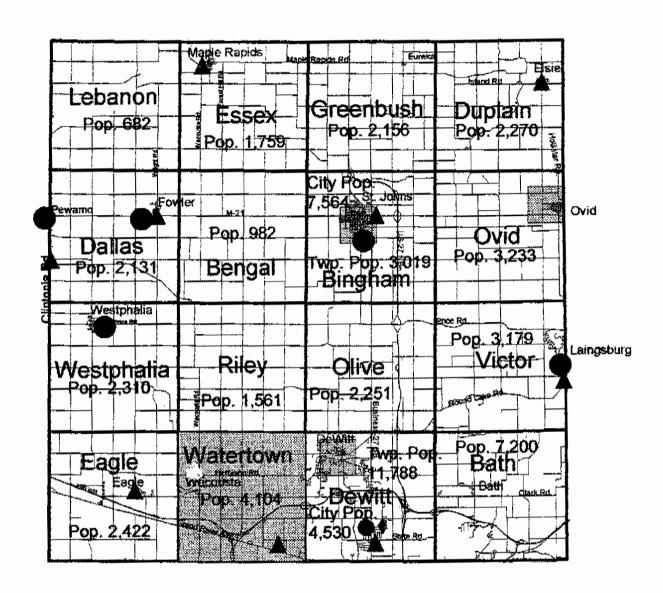
Recycling and composting programs within Clinton County are feasible and expected to continue. Lists of existing and planned programs are contained in the following pages. Details of these programs are provided in the Program Priorities Matrix contained in Appendix A-1d. Programs which separate potentially hazardous materials are feasible on a limited basis, and details are contained in appendix A-2.

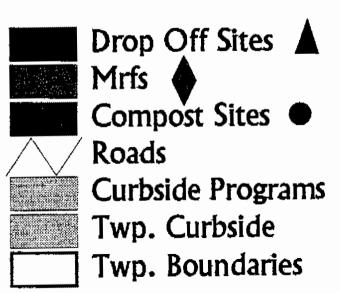
Under Part 115, yard waste may not be accepted by disposal facilities in Michigan. National and state level statistics estimate that this policy reduces the quantity of landfill-bound waste by 12% to 14%. Because this county has many farms who have always composted yard waste and other compostable materials, a figure of 8% is considered more reflective of the county.

Volume Reduction Techniques

	Est. Air Space Conserved (Yds ³ /Yr)						
Technique Description	Current	5th Year	10th Year				
		•	·				
NONE			· <u>-</u>				
		-					
		<u>-</u>					
<u> </u>							
·		· - ·					

Clinton County Recycling Programs





Type. Ad Amounts of Materials Recycled

		Projected			1
Residential Recycling	Pounds	Pounds	Pounds	Pounds	Pounds
	1997	1999	2000	2005	2010
Tires	166,221	182,843	201,127	233,890	298,509
Useable Furniture	95,880	105,468	116,015	134,913	172,187
White Goods/Large Scrap Metal Items	51,100	56,210	61,831	71,903	91,768
Plastic	588,534	647,387	712,126	828,126	1,056,923
Tin	700,526	770,579	847,636	985,710	1,258,044
Aluminum	3,707	4,078	4,485	5,216	6,657
Glass	1,445,493	1,590,042	1,749,047	2,033,954	2,595,898
Cardboard	721,745	793,920	873,311	1,015,568	1,296,150
Magazines	577,258	634,984	698,482	812,260	1,036,672
Newspaper	1,849,779	2,034,757	2,238,233	2,602,825	3,321,937
Other Paper, Phone Books, Text Books	1,265,754	1,392,329	1,531,562	1,781,043	2,273,112
Boxboard	44,006	` 48,407	53,247	61,921	79,028
Polystyrene	1,784	1,962	2,159	2,510	3,204
Construction Demolition	3,809,540	4,190,494	4,609,543	5,360,405	6,842,000
TOTAL	11,321,327	12,453,460	13,698,806	15,930,244	20,332,090
In Tons	5,661	6,227	6,849	7,965	10,166

Base Data - from 1997 Data Collection Process

It is anticipated that improvements made at rural recycling sites during 1998 and 1999 will result in substantial increases in amounts collected at those sites. Indeed, at the four drop off sites, with only 1/2 of the improvements in place, recyclables collection increased by nearly 50,000 lbs. This compares with normal annual increases of about 10,000 lbs per year. County wide data collection has been challenging and often lacking. Thus, projections for recycling are based upon the only consistent and reliable data available - data derived from the County drop off sites. Between 1992 and 1997, recycling rates increased consistently by 1% at the drop off sites. This changed dramatically between 1997 and 1998 where rates increased by 10% in a single year. Based upon the increase seen in county drop-off sites for 1998, we anticipate a continued average increase of 5% per year. This forms the basis for the above mentioned projections.

Current and Proposed Recycling Programs

Residents and businesses will continue to receive recycling services in one of three ways: subscription curbside recycling, municipal or franchised curbside collection, and drop off sites. Not all haulers provide subscription curbside collection in all parts of the County. In rural areas, some companies have eliminated services due to the lack of cost effectiveness resulting from low density development. Curbside recycling is expected to continue for residents through franchise services in the cities of St. Johns and DeWitt, the Village of Ovid, and Watertown Township.

Through the Solid Waste Alternatives Grant Program, the County will continue to provide drop off recycling services where private services are lacking. The County runs four sites in the following communities: Village of Maple Rapids, Village of Fowler, Pewamo/Westphalia, and Eagle Township. Over 500,000 pounds of recyclables are processed annually from these sites. Site improvements and added hours of operation will increase access for residents and businesses.

The St. Johns Lion's Club provides a 24-hour drop off recycling site. The County provides a subsidy to the site, but it continues to be managed by the Lions Club. Though the site is located within a city that offers curbside recycling, it services outlying areas that do not have such services available. It processes over one million pounds of recyclables annually.

Granger also operates a 24-hour, self-serve recycling site on Wood Rd. in DeWitt Twp. The site draws from Ingham and Eaton Counties, as well as Clinton County. Based upon a survey conducted in 1994, approximately 28.5% of residents using the site come from Clinton County.

Current and Proposed Composting Programs

This Plan foresees continuation of individual household and community-based composting. Increased sophistication and technology may ultimately allow for the addition of non-traditional, organic materials to existing composting programs. The County's role will be to educate residents seeking assistance in backyard composting and to provide information regarding where they can take yard waste materials. Presently, yard waste, including grass clippings, leaves and some branches, are the most common materials to be included in composting. Backyard compost piles will likely include kitchen scraps and some paper. Programs in other states are experimenting with a variety of other organic household waste products. The County will continue to collect such information and make it available to individuals and municipalities for their consideration and possible future applications.

Sludges and manure are compostable items which will likely see continued and increased application.

Current and Proposed Hazardous Materials Programs

Hazardous Household Waste

The County will continue to provide household hazardous waste collection services for citizens periodically through one day collections (see "Special Collections"). The County contracts for staffing of such days. The City of St. Johns offers periodic collections of household hazardous wastes for its residents. Instead of offering a one day collection, the City allows residents to bring materials to the City Waste Water Treatment Facility for a period of days prior to pickup by a hazardous materials hauling and handling company.

Additionally, residents of this County may take hazardous household material to Ionia County for a minimal charge per pound. A letter of Agreement will formalize this arrangement. Proximity to Ionia County makes this arrangement valuable. The County will explore the possibility of a similar arrangement with Ingham County.

Finally, one day collections and/or arrangements with neighboring counties will be constructed so that there is better access on a more frequent basis for residents.

<u>Pesticides</u>

This County does not provide ongoing services to collect unwanted pesticides. Ionia County, however, runs a permanent facility whose disposal costs are funded by the Department of Agriculture and thus currently free to users of the site. Clinton County residents may take their unwanted pesticides to this facility. Because of the availability of the Ionia facility, the County does not anticipate developing additional programming.

Current and Proposed Recycling Programs

Program Name	Service Area					Program Ma	nagement Responsib	ilitae2
		Franchised <u>Public or</u>	Collection Point ³	Collection Frequency ⁴	Materials <u>Collected</u> 5	<u>Develop</u>	Operation	Evaluation
Daggett Recycling	Ingham, Eaton & Clinton Counties	<u>Private</u> Private	o	d	J, P, C	<u>ment</u> 5	5	
DeWitt	City of DeWitt	Franchised	c	w	A, B, E, F	6	5	
Eagle	Eagle Township	Public	d	m	A,B,C,E,F,F1	1	1	
Elsie	Duplain Township	Franchised	d	m	A,B,C,E,F,F1	5	5	
Fowler	Dallas Township	Public	d	m*	A,B,C,D,E,F,F1	1	1	
Granger Waste Mgm't	Ingham, Eaton & Clinton Counties	Private	d	d	B,E,F,J	5	5	
Granger Recycling Center	Ingham, Eaton & Clinton Counties	Private	0	d	Λ,B,C,D,E,,F1,F2	5	5	
Laingsburg	Victor & Bath Twps. (partial Shiawassee County)	Environmental Group	d	m	A,B,C,D,E,F,F1,F4	4	4	
Maple Rapids	Essex Township	Public	d	m*	A,B,C,E,F,F1	1	1	···
Ovid	Village of Ovid	Franchised	C	b	A,B,E,F,F1	6	5	
Pewamo-Westphalia	Westphalia Twp & (partial Ionia County)	Public	d	m	A,B,C,D,E,F,F1	1	1	
St. Johns	City of St. Johns	Franchised	c	W	A,B,C,E,F,F1	6	5	·····
St. Johns Lions Club	Clinton County	Private(non- profit)	d	d	A;B,C,D,E,F,F1,F4,F 3	6	6	
Watertown	Watertown Township	Franchised	С	ь	A,B,C,D,E,F,F1	6	5	

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 (Clinton County Department of Waste Management); 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group; 5 = Private Owner/Operator; 6 = Other (Lions Club).

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

⁴ Identified by d = daily; w = weekly; b = biweekly; m = monthly *includes ten day time period; and if season 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; F1 = Magazines, F2 = Auto Batteries, F3 = Phone Books, F4 = Polystyrene.

Current and Proposed Composting Programs

Program Name	Service Area ⁱ	Public or Private	Collectio n Point ³	Collection Frequency ⁴	Materials Collected ⁵	Program Management Responsibilities ²		
· · · · · · · · · · · · · · · · · · ·						Development	Operation	Evaluation
City of St. Johns	City	Public	e	W	G,L,W	6	3	
City of DeWitt	City	Public		\V	G,L,W	6	3	
Granger's Landscape Supply	Plan Area	Private	d	d	G,L,W		5	• • • • • • • • • • • • • • • • • • • •
Village of Maple Rapids	Village	Public	c	Sp,Su,Fa	G,L,W	6	3	
Village of Elsie	Village	Public	с	Sp,Su,Fa	G,L,W	- 6	3	

Composting education for back yard composting is provided by the Department of Waste Management.

The Department of Waste Management also provides technical assistance to municipalities establishing programs intended to service their communities

No new sites or facilities are proposed by the County.

Identified by where the program will be offered.

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

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

^{&#}x27;Idenfied by d = daily, w = weekly; b = biweekly; m = monthly; and if seasonal service also indicate by Sp = Spring;

Su = Summer' Fa = Fall' Wi = Winter

⁵Identified 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

Current and Proposed Hazardous Materials Programs

Program Name	Service Area ¹	Public or	Collection	Collection	Materials	Program Mana	gement Resp	onsibilities²
No. of the Control of		Private	Point ³	Frequency ⁴	Collected ⁵	Development	Operation	Evaluation
City of St. Johns	City	Public	d	2/yr	A,AN,B2,C,H,P,PS,PH,	6	3	
Granger Recycling	Plan Area +	Private	<u>d</u>	all times	B1	5	5	
Dump Your Junk	County	Public	<u>— ф</u>	1/yr	A,B2,C,H,P,PS,PH,	1	1	
Ionia County Resource Recovery	Plan Area +	Public	d	all times	A,B2,C,H,P,PS,PH,*	1	1	
Ingham County* (proposed)	Ingham County*	Public	d	all times	A,B2,C,H,P,PS,PH,**	1	1	

A number of used oil and used antifreeze sites are located throughout the County though these sites change often. Protection for the providers of such services and incentives to increase such services are lacking. Legislation is anticipated during the coming legislative sessions to address this issue on a state-wide basis.

'Identified by where the program will be offered.

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

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

Identied by d = daily, w = weekly; b = biweekly; m = monthly; and if seasonal service also indicate by Sp = Spring;

Su = Summer' Fa = Fall' Wi = Winter

Sidentify materials collected by listing letter located by material type. AR = Aerosol Cans; AN=Antifreeze; A = Automotive products except Used Oil, Oil Filters & 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 Identified

- * Focus of Ionia County Program is on collection of Pesticides and Herbicides
- ** Ingham County is not a part of Clinton County's present strategy; it is hoped that a future arrangement similar to the Ionia County arrangement can be reached.

Resource Recovery Management Entities and Service Providers

Primarily, the service providers of recycling services are private sector companies. The following list presents a current snapshot of various entities involved in service provision and management, but is not intended to be exclusive.

Resource Recovery Programs

Composting - Drop-off

- Granger Landscape Services
- Village of Fowler
- Village of Maple Rapids DPW

Composting - Curbside:

- · City of St. Johns DPW
- Village of Ovid DPW
- City of DeWitt DPW
- Village of Elsie
- · City of DeWitt

Recycling - Subscription Curbside

- Allied Disposal Services
- Granger Recycling
- Sunrise Disposal (a subsidiary of Republic Industries)

Recycling Drop-off Sites - 24 Hour

- St. Johns Lions Club Recycling Site
- Granger Recycling, Wood Rd.
- Elsie Village contracts with Waste Mgt

Recycling Drop-off - Monthly

- Eagle; Pewamo/Westphalia; Fowler;
 Maple Rapids County contracts with Granger
- Wacousta Watertown Twp. contracts with Waste Mgt.
- Laingsburg Greater Laingsburg Recyclers contract with Allied Disposal

Recycling - Municipal Curbside

- City of St. Johns contracts with Waste Mgt
- City of DeWitt contracts with Allied Disposal
- Village of Ovid contracts with Waste Mgt.
- Watertown Twp. contracts with Waste Mgt.

Recycling - Business Subscription

- Allied Disposal
- Granger Recycling
- Sunrise Disposal (a subsidiary of Republic Industries)
- Waste Management, Inc.
- Browning Ferris Industries (Allied Waste)

Citizens are kept current on services and service providers through the *Garbage Gazette*. See Appendix A-2c.

Diversion

Establishing diversion goals, and accurately measuring progress toward those goals, is fraught with roadblocks. Private sector companies are reluctant to share information and/or have not themselves collected data in a format that makes it useful to the County. This problem has improved over the years, but is not solved.

Nevertheless, since 1996 the County has been compiling recovery data to the extent possible, which has increased its ability to evaluate the success of county programs. The data sheets for 1996 and 1997 are contained in Appendix A-2e.

The following form projects recovery rates for recyclables through 2010. Due to a lack of data collection and reporting abilities, some materials are not included: Recoverable construction and demohition debris; deposit bottles and cans; scrap metal recycling conducted outside of municipal efforts; and, government and business recycling.

The influence of unpredictable factors such as market prices, world economics, degree of manufacturing and purchasing of recycled products, are outside of this county's control. These factors, however, can significantly impact achievement of recycling goals.

Lack of reliable data frustrates the ability to project the full costs of recycling. Such costs consist of the obvious collection, processing, marketing, and educational expenses. These costs are offset however, by avoided landfilling costs (tipping fee) and other important, but less quantifiable costs. Such costs include avoided land usage for disposal; reduced energy usage in production of products that use post consumer feedstock; the value associated with reduced negative impacts on non-renewable, as well as renewable, natural resources. This Plan will focus on efforts to improve data collection and the ability to quantify obvious, as well as less obvious, costs so that program assessment improves.

Projected Diversion Rates

Projected Annual Tons Diverted						
Current ('97)	5th Yr	10th Yr				
294	414	555				
924	1301	1744				
361	508	680				
633	891	1193				
723	1017	1363				
289	406	544				
unknown	unknown	unknown				
2754	3196	4082				
unknown	unknown	unknown				
1905	2680	3592				
unknown	unknown	unknown				
83	117	157				
377	531	712				
1	1	1.5				
	Current ('97) 294 924 361 633 723 289 unknown 2754 unknown 1905 unknown 83	Current ('97) 5th Yr 294 414 924 1301 361 508 633 891 723 1017 289 406 unknown unknown 2754 3196 unknown unknown 1905 2680 unknown unknown 83 117				

- County brokers through private sector. Other data not available considered proprietary.
- No indication that materials have not been fully marketed.

Market Availability

Currently, materials collected through county recovery programs are marketed through a broker. Therefore, end-destinations change and are often unknown. Regardless, during the previous Plan period, informal meetings began with area recycling groups to discuss the value of cooperative marketing, particularly in times when prices are depressed. During the next plan cycle, this will become a more serious discussion. The general philosophy behind this approach is that by combining and guaranteeing larger quantities of materials, better prices may be secured from end markets. Discussions are expected to continue.

There is no question that strong markets increase the enthusiasm for and cost effectiveness of recycling. This, in turn, impacts the availability of services (curbside in rural areas) and thus increase diversion rates.

5.12 EDUCATIONAL AND INFORMATION PROGRAMS

The following form provides the information requested as part of the Selected System: Educational System component of the Plan Format. Narrative description of the Department's educational efforts follow on subsequent pages.

Outreach Activity	Program Topic !	Delivery Medium ²	Targeted Audience ³	Program Provider ⁴
				-
Garbage Gazette	1, 2, 3, 4	0	p, b, i, s (teachers)	DPA***
Garbage Guide	1, 2, 3, 4	0	p, b, i, s (teachers)	DPA
HHW Brochure	3	f	p, b, i	_ DPA
Compost Brochure	3	<u>f</u>	p, s (teachers)	DPA
Recycling at Work	3	<u>f</u>	b, i	DPA
Press Releases	1, 2, 3, 4, 6*	<u>n</u>	p	DPA
Classroom Prgs.	1, 2, 4, 6*	<u>w</u>	p, b, s - K-12	DPA
Workshops	1, 2, 3, 4, 5, 6* w		p, b, s (teachers)	DPA
Stewardship Awards	6 - env. stewardship	ot - (award prg.)	s (K-12)	DPA
Resource Library	1, 2, 3, 4, 6*	ot (Resource Cart)	s (teachers K-12)	DPA
Special Events	1, 2, 3, 4, 5, 6* e**		p, s (K-12)	DPA

^{*}In many of its educational programs, the Clinton County Department of Waste Management addresses a broad range of environmental topics, beyond recycling and solid waste. Topics that have been addressed through presentations, classroom programs, newsletter and newspaper articles include (but are not limited to): the water cycle, groundwater quality, habitat protection, indoor air quality, population growth, wildlife, etc.

Codes

- 1 Identified by: 1=recycling; 2=composting, 3=household hazardous waste; 4=resource conservation; 5=volume reduction; 6=other
- 2 Identified by: w = workshop; r = radio; t = television; n = newspaper; o = organizational newsletter; f = flier; e = exhibits and locations listed; and ot = other

^{**} Special events and exhibits have been provided in St. Johns, DeWitt, Lansing Mall, Lansing. Some of these are provided on a regional basis, in cooperation with recycling coordinators in Ingham and Eaton Counties and the cities of Lansing and E. Lansing.

^{***}While education programs are almost always delivered or produced by Department of Waste Mgt. staff, programs are often provided in cooperation with other agencies, including: MSU Extension, 4-H, school districts and individual schools, community education, health departments, environmental groups, Girl and Boy Scouts, Chamber of Commerce, business and community organizations, etc.

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; OO = Private Owner/Operator; HD = Health Department; DPA = Designated Planning Agency; CU = College/University; LS = Local School; ISD = Intermediate School District; O = Other.

Educational and Informational Programs

Publications

Garbage Gazette Newsletter: The Garbage Gazette will continue to be the Department's primary vehicle for distributing in-depth information to County residents on many topics. Approximately 6,000 copies will be distributed through schools, recycling sites, grocery stores and other locations.

Garbage Guide: The county will continue to produce the Garbage Guide, which lists organizations that accept clothing, appliances, tires, and all manner of household items. Clinton County will be working with other area municipalities, leading the effort to regionalize this publication. It will be made available in printed form, but will also be available through a searchable database on the internet.

<u>Guide to Backyard Composting</u>: This publication is in stock and will continue to be used to provide basic information to residents who want to start a backyard composting pile.

<u>Recycling at Work</u>: This flier, also in stock, provides resources and information to businesses regarding waste reduction and recycling. The Department may produce additional publications in regard to business recycling, waste reduction and "buying recycled" as needed.

<u>Business Recycling/Buy Recycled Guide</u>: This publication will help businesses identify potentially recoverable items in their waste stream and facilitate their purchase of recycled content products.

<u>Hazardous Household Products - Reducing the Risks</u>: This brochure is designed to be cut into 3"x5" cards and stored in recipe card file. It will continue to be used to provide guidance for reducing the use of hazardous household products, disposal guidelines for such products, and non-toxic alternatives.

<u>Misc. Publications</u>: At times, the Department may produce publications which accompany specific programs. A variety of other fliers and brochures may be used to promote collection programs, changes in program guidelines, etc.

<u>Press Releases</u>: The Department will continue to run press releases in local newspapers on a regular basis. Articles will educate citizens on various aspects of waste reduction, recycling, and composting, and promote the services and activities of the County's Department of Waste Management. A binder of collected clippings is available in the Department office.

Other Print Media: When appropriate, the Department will send short press releases and informational notices to a variety of organizations for publication in

internal or external newsletters; schools, school districts, municipalities, Chamber of Commerce, etc.

Presentations and Workshops

<u>Workshops</u>: The Department may conduct periodic workshops on backyard composting or other topics for municipalities, school districts or clubs. Workshops are more cost-effective when run and promoted through another agency, such as these.

Group Presentations: The Department will continue to provide special presentations to a variety of community and business organizations upon request, and as a method of addressing a particular issue. Programs may have been conducted for groups like individual businesses, Chambers of Commerce, municipal officials, Lions, Rotary, Kiwanis, PTAs, teachers, adult and youth clubs, church groups, etc.

Youth Education Programs

<u>Classroom Programs</u>: The Department will continue to provide entertaining and educational hands-on classroom programs for all Clinton County schools. Generally, department staff develop a specific program, addressing a single issue or theme, and targeted toward specific age groups. The program will then be promoted to the appropriate level teachers.

A number of different education programs have already been developed, including:

- Wild About Resources (for 6th-8th grades) Addresses the issues of natural resources, resource use, pollution, and personal consumption choices.
- Understanding the 3 R's (for 3-5th grades) Utilizes three hands-on activities to help students understand and practice Reducing, Reusing and Recycling.
- Garbage Pizza (for k-2nd grades) Features an action story about where garbage goes, helps students understand why we make garbage and where it goes. Building a garbage pizza helps kids understand what parts of their garbage they can recycle.
- You're Recycling, Right? (adapted for all grade levels) This program quickly addresses quality paper recycling in school classrooms. Usually the program is conducted in 20 minute segments to all rooms in a building in one day.
- Composting for Kids (upper elementary) More schools are beginning to use outdoor classrooms where students plant their own gardens. This program helps students understand how to make a composting bin part of their gardening activities.

Environmental Stewardship Awards for Youth: The Stewardship Award Program is designed to provide special recognition to students who exhibit and practice good stewardship for the environment. Savings Bonds are awarded to the winners. The Department may or may not continue this program as participation has been low.

Misc. Youth Programs: Special hands-on education programs will be made available to scout troops, 4-H clubs, and other youth groups upon request.

- Animals, Trees & Me (for 1st 4th grades) This series of hands-on activities based upon a wildlife story has been provided a number of times for scout groups and is a 2 ½ hour program.
- Me and My Worms (adaptable for K-8th grade) This program helps students understand how worms recycle garbage, thus how composting works. It has been adapted as an orientation program for middle school science students in preparation for a worm dissection lab.

Resource Library: The Resource Library is a rolling library cart full of videos, books, hands-on kits and other resources for teachers and youth group leaders in the County. Each elementary school will continue to receive the cart and its resources for a 1-2 week period of time. Teachers will be notified in advance of their school's dates to have the materials, so they may schedule their environmental units to coincide with the dates they have the cart at their school. The Department will add materials to the cart as funding permits.

Special Events

Department staff will assist in the coordination of special events held in conjunction with Earth Day or schools, if asked.

Regional Events

<u>Earth Day Calendar of Events</u>: Clinton County may continue to coordinate efforts to increase the number environmentally-focused activities taking place in mid-Michigan, through the production of a calendar of Earth Day events, produced for the last two years. The regional steering committee hopes to repeat the project yearly, encouraging even more local environmental activities.

Misc. Promotions and Activities

When appropriate and when the opportunity arises, the County will become involved in or will coordinate other activities that don't fit neatly into any of the above categories.

On occasion, Department staff participate as a presenter in regional events such as the Arbor Day Celebration at Potter Park Zoo, Healthy People, Healthy Planet at Impression 5 Science Center, the Girl's 6th Grade Science Fair sponsored by the

intermediate school districts, and Rural Education Day sponsored by the Farm Bureau. Department staff will also provide resources, information, and assistance to local environmental initiatives.

5.13 TIMETABLE FOR SELECTED SYSTEM IMPLEMENTATION

This timetable is a guideline to implementing components and programs 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. Since the infrastructure and funding for implementing the solid waste management plan are already in place, the following addresses objectives set forth in the Plan necessary to achieve the Plan's goals. (Presumes approval of a Plan by March 2000.)

Management Components	Timelines
Administration	
Maintain administrative structure: DWM, SWC, Bd of Comm.	ongoing
Evaluation	
Assemble and review status of current purchasing practices.	ongoing
Internally track and assemble costs and impacts of programs.	ongoing
Use external company to assess effectiveness of programming.	2002
Work to define the County's appropriate role in protecting the public health and environment as it relates to solid waste.	ongoing
Track and assess impact of various legislative initiatives.	ongoing
Modify, maintain or eliminate programs based upon evaluation.	ongoing
Waste Characterization study	2001
Programs	
Provide educational services, collection services and grant services as detailed in Program Priorities matrix.	ongoing
Elevate participation recycling programs.	ongoing
Continue Education in communities, schools - add businesses.	ongoing
Continue enforcement work against illegally handled waste	ongoing
Continue to implement and support programs which recycle or properly dispose of 'hard to dispose of 'items.	ongoing
Track and work on State/Federal initiatives which favor purchase and use of products made from recycled content.	ongoing
Resources	
Assemble and promote best management practices.	ongoing
Assemble samples of purchasing policies and other resources	ongoing_
New Services	
Work regionally to target commonly used commodities for possible cooperative purchase.	start Sept 2000
Develop recycling/waste exchange guide for business	May 2000
Work with developers, home owner associations, municipalities to promote minimum levels of solid waste services for high density areas.	start May 2000 ongoing

Provide education about various waste reduction or handling options.	ongoing
Implement an active education and promotional strategy that favors purchase of commodities in recyclable containers and made from recycled content.	ongoing
Work regionally to identify alternative disposal methods for HHW, Universal Wastes, Appliances, Tires, etc.	ongoing
Work to assess the feasibility of a tri-county used auto fluids recycling program	Sum 2000 and ongoing
Work regionally to assess the feasibility and impact of establishing a universal wastes recycling program.	Sum 2000 and ongoing

5.14 SITING NEW FACILITIES OR EXPANSIONS

Clinton County has verified sufficient disposal capacity (exceeds ten years) such that siting or expansion of an existing disposal facility is unnecessary and unanticipated. However, should occasion arise that a developer proposes a facility, and should the County determine that in spite of lack of need, that it should be considered, a site review process is included in the Plan. In this manner, developers will be assured of responses that are prompt and fair. It is intended that this review process be used for consideration of any of the following solid waste facilities:

- Landfill expansion (vertical or horizontal)
- · Landfills located in areas not presently hosting such facilities
- Transfer Stations
- Construction or expansion of MRF's handling non-source separated materials.

Municipal solid waste incinerators will not be sited in Clinton County.

CLINTON COUNTY SITING PROCEDURE NEW DISPOSAL AREAS

The following stipulates the process by which new disposal areas are considered for inclusion into the Clinton County Solid Waste Management Plan.

SECTION I DEFINITIONS

- 1. "Disposal Area" means a solid waste transfer facility, incinerator, sanitary landfill, processing plant or other solid waste handling or disposal facility utilized in the disposal of solid waste. (Part 115 Rules 324.11503(2))
- 2. "New Disposal Area" a disposal area that requires a construction permit pursuant to the provisions of section 10(1) or section 11(2)(d) of Part 115 of P.A. 451 of 1994, including all of the following:
 - A disposal area, other than an existing disposal area, that is proposed for construction.

- b) For landfills, a lateral expansion or vertical expansion of an existing disposal area.
- c) For disposal areas other than landfills, an enlargement in capacity beyond that indicated in the construction permit or in engineering plans approved before January 11, 1979.
- d) For all disposal areas, an alteration of an existing disposal area to a different disposal area type than had been specified in the previous construction permit application or in engineering plans that were approved by the director or his or her designee before January 11, 1979.
- e) Any modifications in State or Federal law to this definition is hereby incorporated by reference.
- 3. "Designated Planning Agency" ("DPA") Agency formally designated by the county as responsible for the development of the solid waste management plan and plan updates- currently the Clinton County Department of Waste Management
- 4. "Local Planning Agency" ("LPA") The local planning agency of the municipality where a new disposal area is proposed represented by Director and/or Board Chairperson. If a local planning agency does not exist, the local governing board shall serve as the "Local Planning Agency."
- 5. "Site Review Committee" ("SRC") An ad hoc Committee appointed by the Board of Commissioners which shall consist of one (1) representative from the township where a disposal area is proposed; one (1) representative from the County Board of Commissioners; one (1) representative from the Planning Commission or Planning Department; one (1) representative from the Health Department; one (1) representative from the solid waste industry; one(1) representative from the general public; and one (1) representative of environmental interests.
- 6. "Host Community Agreement" Any agreement, memorandum of understanding, contract, letter or other document negotiated between the Developer of a disposal area and a local host Township and/or County executed with signatures of representatives of the Developer, Township Supervisor and/or Board of Commissioners Chairperson.
- 7. "Board of Commissioners" ("Board") The Clinton County Board of Commissioners.

SECTION II PROCESS

1. All proposed disposal areas must be either included in the current or updated Solid Waste Management Plan ("Plan"), or included into the Plan through this Siting Mechanism.

During the Plan Update process or Plan amendment process, the Designated Planning Agency (DPA) shall be responsible for conducting initial reviews and provide application information to both the Local Planning Agency (LPA) and the Site Review Committee (SRC) for their assessment and findings.

- 3. An Applicant wanting inclusion of a new disposal area into the Plan may initiate the review process by submitting an application, which includes information listed in Section III, to the DPA. Not more than five copies may be required by the DPA. The Applicant must also submit payment of an application fee to cover costs associated with the review (stipulated in the Solid Waste Ordinance, Article 7 (7.4)) to the Clinton County Treasurer. Upon completion of the review process, if costs for the review are less than the fee, a refund of the unexpended fee will be made to the applicant.
- 4. The Board will determine if the site review process should proceed, except if there is less than 66 months of capacity available to the County for disposal. Should there be less than 66 months of capacity assured, the siting process shall proceed such that adequate capacity is assured.
- 5. Capacity can be assessed at the time of application through the use of various mechanisms including the following:
 - i) Review yearly disposal quantity needs
 - ii) Review of Air Space Capacity Reports for facilities located within the County which indicate, in aggregate, the amount of space and number of years remaining at those facilities.
 - counties named in this Plan, divided by rate of fill per year to project space remaining. This, in combination with "a)" and taking into consideration of any limitations for exporting to authorized counties should yield an approximate number of years remaining at those facilities. The Capacity Certification form may be used as a tool to assemble such data and is attached.
- 6. If the process is to proceed, the DPA shall review the application for administrative completeness in accordance with requirements of Section III. If no determination is made within 15 working days, the application shall be considered administratively complete. If the application is found to be incomplete, the developer shall be notified of deficiencies and have 30 days to provide additional information. If the additional information is not provided within 30 days, the application shall be deemed to be denied.

A host agreement may be entered into between the Applicant and host Community and/or the host County. The Applicant, Community and/or County may decline the necessity for an agreement if they so choose, but must convey that decision to

the SRC. Successful negotiation of an agreement with the host Township will eliminate step #7, #8 and #9 in this section. The host agreement may address the following issues:

- a) Hours of Operation;
- b) Mud tracking;
- c) Funding Issues,
- d) Noise, litter, odor, dust control;
- e) Access to operating records and reports;
- f) Facility security;
- g) Monitoring of wastes accepted and prohibited;
- h) Composting and Recycling;
- i) Annual Caps; and,
- j) Any other issues as may negotiated between the parties.
- k) This listing is neither meant to be completely inclusive or exclusive of issues which may be addressed in an agreement.
- 8. At the time that the application is found to be administratively complete, the application shall be forwarded to the LPA and SRC.
- 9. Within 60 days from the date the application is received, the LPA shall complete its review of the application and make its findings known to the SRC. As a part of the review, and within the 60 day review time period, DPA will conduct a public hearing on the proposed disposal area siting. To the degree that facilities are available in the host municipality, the DPA will attempt to hold the hearing in that locale. Should the LPA fail to complete a review and make its findings know within the 60 day time period, the application shall be considered approved by the LPA. Should the DPA fail to conduct a public hearing, the SRC may order the hearing conducted during its review period.
 - a) Any Applicant submitting an application with a negotiated host community agreement put in place between the Applicant and host community will not be required to proceed through Step #6 and Step #7.
 - b) Their application will be forwarded directly to the SRC (Step #8). In this event, during the review period for the SRC, the DPA shall be required to conduct a public hearing, compile the comments and submit them to the SRC.
- 10. In conducting reviews, consideration shall include the degree to which the application is consistent with the criteria for siting contained in Section IV. The LPA shall forward its findings and comments regarding consistency with the criteria to the SRC. The DPA shall submit public hearing comments to the SRC.
- 11. The SRC shall have 60 days in which to complete its review of the application. Failure to complete the review in 60 days and to demonstrate completion of a

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5.14 SITING NEW FACILITIES OR EXPANSIONS

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- Landfill expansion (vertical or horizontal)
- · Landfills located in areas not presently hosting such facilities
- Transfer Stations
- Construction or expansion of MRF's handling non-source separated materials.

Municipal solid waste incinerators will not be sited in Clinton County.

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- 2. "New Disposal Area" a disposal area that requires a construction permit pursuant to the provisions of section 10(1) or section 11(2)(d) of Part 115 of P.A. 451 of 1994, including all of the following:
 - a) A disposal area, other than an existing disposal area, that is proposed for construction.

- b) For landfills, a lateral expansion or vertical expansion of an existing disposal area.
- c) For disposal areas other than landfills, an enlargement in capacity beyond that indicated in the construction permit or in engineering plans approved before January 11, 1979.
- d) For all disposal areas, an alteration of an existing disposal area to a different disposal area type than had been specified in the previous construction permit application or in engineering plans that were approved by the director or his or her designee before January 11, 1979.
- e) Any modifications in State or Federal law to this definition is hereby incorporated by reference.
- 3. "Designated Planning Agency" ("DPA") Agency formally designated by the county as responsible for the development of the solid waste management plan and plan updates- currently the Clinton County Department of Waste Management
- 4. "Local Planning Agency" ("LPA") The local planning agency of the municipality where a new disposal area is proposed represented by Director and/or Board Chairperson. If a local planning agency does not exist, the local governing board shall serve as the "Local Planning Agency."
- 5. "Site Review Committee" ("SRC") An ad hoc Committee appointed by the Board of Commissioners which shall consist of one (1) representative from the township where a disposal area is proposed; one (1) representative from the County Board of Commissioners; one (1) representative from the Planning Commission or Planning Department; one (1) representative from the Health Department; one (1) representative from the solid waste industry; one(1) representative from the general public; and one (1) representative of environmental interests.
- 6. "Host Community Agreement" Any agreement, memorandum of understanding, contract, letter or other document negotiated between the Developer of a disposal area and a local host Township and/or County executed with signatures of representatives of the Developer, Township Supervisor and/or Board of Commissioners Chairperson.
- 7. "Board of Commissioners" ("Board") The Clinton County Board of Commissioners.

SECTION II PROCESS

1. All proposed disposal areas must be either included in the current or updated Solid Waste Management Plan ("Plan"), or included into the Plan through this Siting Mechanism.

During the Plan Update process or Plan amendment process, the Designated Planning Agency (DPA) shall be responsible for conducting initial reviews and provide application information to both the Local Planning Agency (LPA) and the Site Review Committee (SRC) for their assessment and findings.

3. An Applicant wanting inclusion of a new disposal area into the Plan may initiate the review process by submitting an application, which includes information listed in Section III, to the DPA. Not more than five copies may be required by the DPA. The Applicant must also submit payment of an application fee to cover costs associated with the review (stipulated in the Solid Waste Ordinance, Article 7 (7.4)) to the Clinton County Treasurer. Upon completion of the review process, if costs for the review are less than the fee, a refund of the unexpended fee will be made to the applicant.



- 4. The Board will determine if the site review process should proceed, except if there is less than 66 months of capacity available to the County for disposal. Should there be less than 66 months of capacity assured, the siting process shall proceed such that adequate capacity is assured.
- 5. Capacity can be assessed at the time of application through the use of various mechanisms including the following:
 - i) Review yearly disposal quantity needs
 - ii) Review of Air Space Capacity Reports for facilities located within the County which indicate, in aggregate, the amount of space and number of years remaining at those facilities.
 - compilation of unused permitted capacity of facilities in authorized counties named in this Plan, divided by rate of fill per year to project space remaining. This, in combination with "a)" and taking into consideration of any limitations for exporting to authorized counties should yield an approximate number of years remaining at those facilities. The Capacity Certification form may be used as a tool to assemble such data and is attached.
- 6. If the process is to proceed, the DPA shall review the application for administrative completeness in accordance with requirements of Section III. If no determination is made within 15 working days, the application shall be considered administratively complete. If the application is found to be incomplete, the developer shall be notified of deficiencies and have 30 days to provide additional information. If the additional information is not provided within 30 days, the application shall be deemed to be denied.

A host agreement may be entered into between the Applicant and host Community and/or the host County. The Applicant, Community and/or County may decline the necessity for an agreement if they so choose, but must convey that decision to



the SRC. Successful negotiation of an agreement with the host Township will eliminate step #7, #8 and #9 in this section. The host agreement may address the following issues:

Return to Approval

Letter

- a) Hours of Operation;
- b) Mud tracking;
- c) Funding Issues,
- d) Noise, litter, odor, dust control;
- e) Access to operating records and reports;
- f) Facility security;
- g) Monitoring of wastes accepted and prohibited;
- h) Composting and Recycling;
- i) Annual Caps; and,
- j) Any other issues as may negotiated between the parties.
- k) This listing is neither meant to be completely inclusive or exclusive of issues which may be addressed in an agreement.
- 8. At the time that the application is found to be administratively complete, the application shall be forwarded to the LPA and SRC.
- Within 60 days from the date the application is received, the LPA shall complete its review of the application and make its findings known to the SRC. As a part of the review, and within the 60 day review time period, DPA will conduct a public hearing on the proposed disposal area siting. To the degree that facilities are available in the host municipality, the DPA will attempt to hold the hearing in that locale. Should the LPA fail to complete a review and make its findings know within the 60 day time period, the application shall be considered approved by the LPA. Should the DPA fail to conduct a public hearing, the SRC may order the hearing conducted during its review period.
 - Any Applicant submitting an application with a negotiated host community agreement put in place between the Applicant and host community will not be required to proceed through Step #6 and Step #7.
 - Their application will be forwarded directly to the SRC (Step #8). In this event, during the review period for the SRC, the DPA shall be required to conduct a public hearing, compile the comments and submit them to the SRC.
- 10. In conducting reviews, consideration shall include the degree to which the application is consistent with the criteria for siting contained in Section IV. The LPA shall forward its findings and comments regarding consistency with the criteria to the SRC. The DPA shall submit public hearing comments to the SRC.
- 11. The SRC shall have 60 days in which to complete its review of the application. Failure to complete the review in 60 days and to demonstrate completion of a

public hearing shall be deemed automatic approval of the application - and result in it being forwarded to the Michigan Department of Environmental Quality ("MDEQ").

12. The SRC shall make and send the final determination of consistency for the proposal to the applicant.

shall be forwarded to the MDEQ from the Board of Commissioners.

To be found consistent with the Plan, a proposed solid waste disposal area must comply with all siting criteria and requirements described in Section IV. Each proposal will be evaluated only against these criteria. If the disposal area is found

to be consistent, a letter of consistency recommended and developed by the SRC

- 14. If the proposal is found to be inconsistent with the Plan, the Applicant may provide additional information to address identified deficiencies. Additional information addressing deficiencies must be submitted to the SRC within 30 days. The SRC may only amend its initial findings based on the submitted information if that information clarifies or corrects original deficiencies.
 - 15. If the Applicant does not agree with the consistency decision of the SRC; or, if no consistency determination has been rendered within the prescribed timeframe, the developer may appeal the determination request to the MDEQ.
 - 16. In all circumstances, the MDEQ shall issue a final determination of consistency with the Plan upon submittal by the Applicant of an application for a construction permit. The MDEQ shall review the determination made by the SRC to ensure that the criteria and review procedures have been properly adhered to.

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SECTION III APPLICATION

- 1. The application shall include the following contact information:
 - a) Name (for the applicant, including partners and other ownership interests)
 - b) Address of persons hsted above
 - c) Phone Number, Fax Number, and E-Mail
 - d) The property owner of the site
 - e) Name any consultants to be involved in the project and submit their resumes
 - f) Name a designated contact person for the Applicant
 - g) Specify the type of facility proposed

The application shall include the following site information:

- a) Site location and orientation
- b) A legal description of the project area

- c) A site map which includes roadways and principal land features within two miles of the site
- d) Topographic map with contour intervals of no more than ten feet
- A map and description of all access roads showing their location, type of e) surface material, proposed access point to facility, haul route from access roads to nearest state trunkline
- f) A current map showing the proposed site and surrounding zoning, domiciles and present usage of all property within one mile of the site.
- 3. The application shall include the following descriptions:
 - Current site use and ground cover; a)
 - Map showing locations of: b)
 - i) all structures within 1,200 feet of the perimeter of the site,
 - ii) location of all airports within 10,000 feet,
 - iii) location of any utilities.
 - location of 100 year floodplain (within 1,200 feet of the site), iv)
 - location of all wetlands as defined in Part 303, v)
 - site soil types. vi)
 - other general geological characteristics: vii)
 - all water wells within 800 feet. viii)
 - ix) all lakes, rivers or streams within 400 feet.
 - x) all drains within 400 feet.
 - A description of the proposed site and facility design which shall include c) final design capacity;
 - d) Description of operations of the facility including planned annual usage, anticipated sources of solid waste and facility life expectancy.

SECTION IV CRITERIA

A proposed disposal area must meet the following criteria in order to be considered consistent with the Plan:

- 1. The Plan area where the disposal area is proposed to be located has less than 66 months of disposal capacity for waste generated in that county as demonstrated by a current capacity certification. Certification may be demonstrated as prescribed in II-.
 - **i**) NOTE: If the county has more than 66 months of disposal capacity available, the LPA may, at its discretion, refuse siting of a facility within their jurisdiction. Under such circumstances, the SRC may also, at its discretion, refuse a finding of consistency and disallow

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inclusion of the facility in the Plan during either the Plan Update process or any subsequent plan amendment process.

- 2. An administratively complete application shall be on file.
- 3. Isolation and location restrictions are specified in Part 115 of P.A. 451 of 1994 as amended and its Administrative Rules as amended. They are incorporated here by reference. Additionally, the following criteria are not intended to be less restrictive than State or Federal law. As such, modifications and amendments adopted into law which produce changed in criteria specifications are hereby incorporated by reference.
- 4. The active work area for a new facility or expansion of an existing facility shall not be located closer than 500 feet from adjacent property lines, road rights-of-way, lakes and perennial streams.
- 5. The active work area for a new facility or expansion of an existing facility shall not be located closer than 1,000 feet from residences or public schools existing at the time of submission of the application.
- 6. A sanitary landfill shall not be constructed within 10,000 feet of a licensed airport runway.
 - A facility shall not be located in a 100 year floodplain as defined by Rule 323.311 of the administrative rules of Part 31, Water Resources Protection, of Act 451.
- 8. A facility shall not be located in a wetland regulated by Part 303, Wetlands Protection, of Act 451, unless a permit is issued.
- 9. A facility shall not be constructed in lands enrolled under Part 361, Farmland and Open Space Preservation, of Act 451.
- 10. A facility shall not be located in a regulated area as defined in Part 323, Shorelands Protection and Management, of Act 451, or in areas of unique habitat as defined by the Department of Natural Resources, Natural Features Inventory.
- \bigcirc
- 11. A facility shall not be located in an area of groundwater recharge as defined by the United States Geological Survey or in a wellhead protection area approved by the Michigan Department of Environmental Quality.
- 12. A facility shall not be located in a designated historic or archaeological area defined by the state historical preservation officer.
 - A facility shall not be located or permitted to expand on land owned by the United States of America or the State of Michigan. Disposal areas may be located on State land only if both of the following conditions are met:

- a) Thorough investigation and evaluation of the proposed site by the facility developer indicates, to the satisfaction of the MDEQ, that the site is suitable for such use.
- b) The State determines that the land may be released for landfill purposes and the facility developer acquires the property in fee title from the State in accordance with state requirements for such acquisition.
- 14. Facilities may only be located on property zoned as agricultural, industrial, or commercial.
- The owner and operator of a facility shall demonstrate effort to cooperate with the county on current and future recycling and composting activities as described in the Plan by submitting a letter to the county indicating their awareness of the strategies described in the Plan and a willingness to cooperate with those strategies.
 - 16. A facility shall be located so that ingress and/or egress to the facility can occur on a paved, all weather "Class A" road. If a facility is not on such a road, the developer shall agree to submit signed statements indicating a willingness to provide for upgrading and/or maintenance of the road serving the facility.

PART IV - DISPOSAL FACILITY CAPACITIES (all figures in cubic yards, last column in years)

Attach ext	ra sheets, as ne	cessary, and incl		•	,	
ĺ		Authorized	Amount Used	Space	Space	Remaining
		<u>Airspace</u>	to Date	Remaining	Used /Year	Capacity (Years
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	Colum	ın A	Column B		Colum	n C
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Byware 30 of each year, submit this form, along with a certified copy of either a resolution or certified meeting minutes demonstrating

Solid Waste Management Unit, Waste Management Division, Department of Environmental Quality, PO Box 30241, Lansing, Michigan

approval of this certification by the County Board of Commissioners, to:

48909-7741.

EQP 5533 (6/97)

ANNUAL COUNTY SOLID WASTE DISPOSAL CAPACITY CERTIFICATION

Section 11538(4) of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protectic. 1994 PA 451, as amended, requires all Counties in Michigan to prepare and submit to the Department of Environm Quality (DEQ) by June 30 of each year a certification of the solid waste disposal capacity available to that County. Fa to adopt and submit the annual certification is equivalent to a finding that the County has insufficient disposal capacity will require the interim siting mechanism of the County's approved solid waste management plan to be operative. An capacity certifications must be approved by the County Board of Commissioners. Evidence of the Boar Commissioners approval (a certified resolution or meeting minutes) must be submitted with this Certification. Submit Certification annually to the address indicated at the end of this form by June 30.

PART I - SOLID WASTE	GENERATION					
	<u>_</u> .		nversion		Compacti	
	Tons/Yea	<u>ar </u>	<u>Factor</u>	Yards ³ /Year	Factor	<u>Dispo</u> sal/Year
Type II				* *		
						
-Municipal Solid Waste					<u> </u>	
-Incinerator Ash	<u> </u>			,	<u>-</u>	
-Commercial/Industrial						<u> </u>
-Other				····-	<u> </u>	
Total Type II	<u> </u>				<u> </u>	
Type III (if not included in	n Type II above)					
		 				
-Low Hazard Industrial					<u> </u>	
-Construct/Demolition		[<u> </u>	
-Other (explain)	 			<u></u>		
Total Type III					<u> </u>	
	,					
Total Solid Waste					<u> </u>	
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PART II - WASTE REDUC	TION AND RECYC			al sheets, as ne	cessary, and	I include in totals)
_			Tons to be			
Type of Material	Tons/Year Collect	<u>ed</u> <u>Collec</u>	cted Next \	<u> Conversi</u>	on Factor	Yds ³ to be Diverted
<u> </u>						
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						<u> </u>
Total				<u> </u>		
PART III - TOTAL WASTE	NEEDING DISPOS	<u>AL</u>				
	Column A			Column B		Column C
	Yds ³ /Year Gene			Year Diverted		³ /Year Disposed /
	(from Part	<u>l)</u>	<u>(fr</u>	om Part II)	(Colu	ımn A-Column B) 🕒
					· , · · · · ·	<u>.</u>
Type !!				· 		<u> </u>
Type III						
Total		1			1	

SITING PROCESS FEE

COST ITEM	UNIT COST	TOTAL
Advertise for applicants to be appointed to SRC	\$ 40.00	\$ 40.00
Notice of Public Hearing 3 papers	\$ 500.00	\$ 500.00
Court Recorder	\$ 150.00	\$ 150.00
Per Diem Site Review Committee (2 meetings)	\$ 35.00	\$ 490.00
Mileage - Site Review Committee (2 meetings)	\$ 8.00	\$ 112.00
Copies	\$ 40.00	\$ 40.00
Postage	\$ 30.00	\$ 30.00
Consulting 20 hours	\$ 150.00	\$ 3,000.00
TOTAL		\$ 4,362.00

SET FEE = \$4500.00

Current available capacity anticipates minimal need for additional facility siting. Thus, a process which warrants a fee sufficient to cover costs

Staff time is excluded from the basis of this fee. It is presumed that the plan will be staffed and as such, this would be a part of plan implementation duties.

A scenario where the Plan is unstaffed however, may require elevating the site processing fee to cover staffing costs,

NEW DISPOSAL FACILITY SITING PROCESS

		Number	If	If There
Who	Responsibility	of Days	"No"	Is a HCA*
APPLICANT	Submit Application to DPA	<u> </u>		
BOARD	Determine if should proceed with process	30	30	30
DPA	Review for Completeness	15	15	15
•	If incomplete request submittal of further			
	information		30	
	If complete, forward to LPA and SRC	,		
DPA & LPA	Review application and formulate finding re:			
	consistency. DPA conduct public hearing.	60	60	
	Submit findings of LPA and hearing		:	
	testimony to SRC			
SRC	Review findings and make determination re:			
	consistency with Plan	60	60	60
	SRC reports finding to the applicant.			:
	A finding of consistency means the new			
	disposal area is sited and becomes a part of			
	the Plan. Letter of consistency is forwarded			
	to the MDEQ			_
	If found inconsistent, applicant may submit			
	added information to address deficiencies		30	
	SRC may only issue new findings on a re-			
	submitted in regards to criteria originally			
	found deficient. New finding must be			
	forwarded to the MDEQ.		30	
	Should the SRC continue to find the proposed			
	disposal area to be inconsistent, the applicant	\bigcirc		
	may appeal to the MDEQ if, and only if, less		i	
	than 66 months of capacity remains for the			
	Plan area.			ļ
	TOTAL NUMBER OF DAYS	165	255	105

^{*} This represents the fastest timeframe in which a proposed disposal area may be sited and presumes no inadequacies in information provided or deficiencies. Inadequacies or deficiencies would add review time to this schedule.

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CRITERIA IN SITE MECHANISM		LE	GAL REFERENCES			
DESCRIPTION	DISTANCE	LAW	IN PA 451 RULES		NOT	ES
Adjacent Property	(in feet)					
Property Lines	500	Part 115 of PA 451	100	Rule 412	Berm required if less than 200 ft	
Road Rights of Way	500	Part 115 of PA 451	100	Rule 412	Berm required if less than 200 ft	77.4
Lakes/Streams		Part 115 of PA 451	400	Rule 412		
Homes	500	Part 115 of PA 451	300	Rule 412		
Water Supplies and Wellheads		Part 115 of PA 451 Part 115 of PA 451	various	Rule 412	Or as Defined by the Director	
Airports		Part 115 of PA 451	5000	Rule 414	Must notify affect airport and FAA if expanding to within 5-mile radius	Has been discussion of
100 Year Floodplain	Prohibited	Part 31/PA 451/Rule 323.311	Allows, but with numerous restrictions	Rule 415		
(none in CC) Wetlands	Prohibited	Part 303/PA 451	Generally prohibited	Rule 416	Allows only under specific circumstances and mitigation.	
(map)			<u> </u>			
Farmland Preservation Act	Prohibited	Part 361/PA 451			Not addressed in PA 451 -	new priority
(PDR Program)					(none approved in CC yet,	1800 acres applied)
Historic or Archeological	Prohibited	MI or Fed Register of Historical Places	Prohibited	Rule 413		
Fault Areas	 		200 ft from fault	Rule 417	(if expansions)	
	 		Generally prohibited	Rule 417	within seismic impact zon	es

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6 PART SIX - MANAGEMENT COMPONENT

This section of the Plan identifies the parties responsible for various aspects of the Plan. Further, it delineates responsibilities of the main players accountable for implementation, defines enforcement, plan implementation and funding strategies.

Strategies, programs and services contained in the Plan are constructed with the intent that there be continued increase in the number of residents and businesses who consider and adopt practices and that ultimately fulfill the objectives of this Plan.

6.1 IDENTIFICATION OF RESPONSIBLE PARTIES

Facility or Activity	Responsible Party
General	
Plan Implementation	County Board of Commissioners through Department of Waste Management
Plan Enforcement	County Board of Commissioners through Department of Waste Management
Program Advisement	Solid Waste Council
Plan Update or Amendment	County Board of Commissioners through Department of Waste Management
Resource Conservation	Department of Waste Management through education
Source or Waste Reduction	Department of Waste Management
Product Reuse	Department of Waste Management
Reduce Material Volume	Department of Waste Management, Municipalities
Increased Product Life	Department of Waste Management
Decreased Consumption	Department of Waste Management
Education	Department of Waste Management
Resource Recovery Programs	
Composting	
Municipal Sites	Municipalities
Individual Residents - backyard composting or to Granger drop-off	Residents
Recycling	
County Drop-Off Sites	Department of Waste Management through contracts with vendors
Granger Recycling Center	Granger Container Service Corp.
St. Johns Recycling Site	St. Johns Lions Club
Laingsburg Recycling Site	Greater Laingsburg Recyclers
Subscription Curbside	Residents or businesses

Municipal or Subdivisions	Municipality or homeowner assoc.
Businesses	Businesses
Energy Production	
Methane Energy Plant	Facility owner/operator
Waste Reduction/Volume Reduction	
Volume-based Collection	Municipalities or individuals
Solid Waste	
Residential Subscription Curbside	Residents
Municipalities or Subdivisions	Municipalities or homeowner assoc.
Purchasing	
Education	Department of Waste Management (& Eaton
	& Ingham Counties)
Disposal Areas	
Processing Plants	Facility owner/operator
Transfer Stations	None sited
Sanitary Landfills	Facility owner/operators
Ultimate Disposal Area Uses	Unknown
Monitoring and Enforcement	County Board of Commissioners through
	Department of Waste Management

Documentation of acceptance of responsibilities is contained in Appendix D.

6.2 GAPS AND PROBLEM AREAS IN EXISTING MANAGEMENT SYSTEM

Gaps and problems in the existing system come in two primary forms;

- a) program and service deficiencies identified by the public and through this planning process, named in Part 3, Section 5: Identification and Evaluation of Deficiencies and Problems; and
- b) difficulties in working with local disposal facilities.

The first is dealt with through a commitment identified in the Program Matrix to address gaps in services. Programming places emphasis on working with the business community, promoting purchase of recycled products and constructing a cost effective solution to household hazardous waste handling.

The second problem area requires more communication with the disposal facilities, clear description of the role of the County, and perhaps Legislation. By establishing a baseline Ordinance addressing solid waste handling standards in this County, a portion of this objective is met. The remaining challenge is a matter of cooperation between the disposal facility owner/operators and the County.

6.3 PLAN IMPLEMENTATION COMPONENTS

At minimum these components are necessary for implementing the Plan's chosen system:

- Administrative structure
- Education
- Collection systems
- Analysis and policy making; evaluation
- Enforcement

Administrative Structure

Authorities: Authority to implement and enforce the Plan is delegated by the Board of Commissioners to a person or agency within the County. The Plan envisions continued employment of a Waste Management Coordinator and continuation of the Department of Waste Management as the agency to administer and implement tracking, education, analysis, some collection services and enforcement responsibilities contained in the Plan. The Plan provides for continuation of an advisory Solid Waste Council (SWC - formerly known as the Designated Implementation Agency, or DIA) to meet on a regular basis with the Waste Management Coordinator for the purpose of reviewing existing programming, advising on administrative matters and assessing services as may be appropriate. All funding, staffing, final program and budget approvals are made by the Board of Commissioners.

Staffing: The Plan envisions continued staffing of the Department of Waste Management with the Waste Management Coordinator as Director, an Assistant Waste Management Coordinator responsible for all public relations, education and outreach activity, and a ¾ time Administrative Assistant to manage data tracking, financial matters, meetings, and to field basic questions from residents, businesses and local municipalities on matters of recycling and solid waste. Specific Roles and Responsibilities are detailed in Section 6.4.

Appendix A-1d contains a Programming Matrix outlining programs to achieve objectives of this Plan over the next five years. The Matrix describes each program and the objective it serves. The following are the minimum programming components needed to implement the Plan.

Education Programs

The central strategy used to reduce waste generation, encourage recycling, composting and purchase recycled products is education. Staffing and expenditures of the County reflect the importance of this tool to accomplishing objectives in the Plan. Details of education strategies to be employed are

contained in Section 5.12. The Program Matrix details program strategies for the next five years (Appendix A-1d).

Collection Systems

The Plan authorizes establishment of collection programs and services by the County which are not readily or consistently available at the local level. This includes drop off recycling, collection of hard to dispose of items (refrigerators, couches, tires, etc.), management of household hazardous wastes, automotive fluids, pesticides and containers, etc. While household hazardous wastes may be disposed of as solid waste, this Plan reflects continued commitment to utilize more environmentally responsible methods to the extent available and economically feasible.

Reducing the concentration and amount of such materials disposed of in the two local landfills as well as other landfills is a risk prevention step that should be utilized to the extent that local entities are able. Some collection programs and services may be provided directly by the County through its administering agency (Department of Waste Management); some may be provided through local grants awarded by the County and funded through landfill user fees; and some services will be provided by other entities with whom the county will seek cooperative relationships.

Other than these services, residents and businesses of the County will continue to contract for waste collection and other curbside services independently or through municipal, subdivision or housing association contracts.

Analysis and Policy Making - Evaluation Components

Analysis and Policy Making: Policy development at the local, state and federal levels directly impacts the success of this Plan, and recycling and solid waste management in general. In many respects, the health and success of recycling is directly tied to policy and legislative actions at all governmental levels. This Plan, therefore, affirms and provides for involvement in legislative and policy development. Elected officials or their designees and/or their state or federal Associations are appropriate persons to represent concerns and recommendations of this County. The Plan encourages involvement by elected officials in local, state and federal organizations, meetings, conferences and legislative sessions which address or develop policies to enhance the goals of this plan.

Evaluation and Data: Evaluation of programs and services are essential to keeping programs successful and efficient, and to keeping the Plan dynamic and current. During the last planning cycle, periodic in-house cost/benefit analysis were performed of programs resulting in a surprising conclusion of eliminating two popular, but not very cost-effective programs. Additionally, use of an outside survey company to assess the public's perception of problems and challenges

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New Master Plan doc 12/03/29

related to recycling provided insight and guidance in further program development and/or elimination. Such efforts will continue into the next Planning cycle. Once every other year an internal assessment shall be conducted. Once during the five year planning cycle, preferably just prior to the next Plan Update, an independent survey will be conducted. Additionally, once during this Plan Update cycle, a waste characterization study will be conducted to determine recycling impacts, and to compile a profile of waste generated in Clinton County by material type.

Solid data is the cornerstone for evaluating performance. Unfortunately, it's an area where the County has experienced considerable difficulties. The county will continue to refine existing data collection efforts. The County will also work to coordinate its own data collection efforts with those of the State - recognizing the value in consistency among counties for the purpose of sound analysis and comparisons. The previous plan did not require even minimal data from waste and recycling service providers. Rather, the county solicited voluntary information. Many providers have volunteered detailed information; others have not. Achieving a level of consistency and credibility will be the focus in the coming Plan period.

Enforcement

Enforcement processes are detailed in Section 6.8 of this Plan and in an adopted Solid Waste Management Ordinance in Appendix D-3. Matters not addressed by the Solid Waste Ordinance but contained within the Plan will seek enforcement through violation penalties prescribed and provided for in Part 115 and its rules and regulations. Additionally, the County may enter into legally executed agreements with vendors, disposal facilities or other entities, to buy or sell equipment, as may be necessary to complete programming consistent with the Plan and which is approved by the County.

6.4 ROLES AND RESPONSIBILITIES

The Administrative Structure used to implement and enforce this Plan includes four primary players: the County Board of Commissioners; the Solid Waste Council; the Waste Management Coordinator; and the Department of Waste Management. The following defines the roles and responsibilities of each.

Board of Commissioners

The Clinton County Board of Commissioner has, by virtue of this Plan, overall authority and responsibility for implementing the approved Solid Waste Management Plan to the extent economically feasible. Specifically, the Board shall have the following roles and responsibilities:

- The Board is responsible for staffing and making appointments as may be necessary to administer and implement the Plan, including appointment of the Waste Management Coordinator and Solid Waste Council.
- The Board annually reviews and approves an operating budget for Plan implementation. The Board approves expenses associated with Plan implementation, approves, and/or amends the budget throughout any given fiscal year.
- So long as implementation of the Plan is funded through collection of a user fee from disposal facilities, the Board shall assure the continuation of a fund separate from the County General fund dedicated to the receipt of fee revenues. The fund shall be used to pay expenses associated with implementation and enforcement of the approved Plan.
- The Board designates the Designated Planning Agency. As of the date of this Plan document, the Department of Waste Management is the County's DPA.
- The Board defines the duties of any staff, departments or councils designated to implement the Plan.
- The Board may enter into agreements or contracts with any person, governmental or private organization on matters pertaining to implementation of the Plan
- The Board may enact ordinances for the purpose of enforcing the Plan, as specified in section 6.8, titled Enforcement, Local Ordinances and Regulation, of this Plan.

Solid Waste Council

The Solid Waste Council is a five-person council appointed by the Board of Commissioners with membership representing: the municipalities hosting disposal facilities; the Health Department; Board of Commissioners; and County Planning and Zoning. Currently two townships host disposal facilities. Should additional municipalities become hosts to disposal facilities, membership may be expanded to include representatives of those municipalities. Township representatives shall hold their appointed offices for a term established by the Board of Commissioners.

The Solid Waste Council replaces the Designated Implementation Agency identified in the previous Plan. This Plan does not intend a disruption in appointments, thus members of the former DIA assume responsibilities of the Solid Waste Council as outlined in this Plan. The Department of Waste Management shall provide staffing to the Council. Specifically, the Solid Waste Council shall have the following roles and responsibilities:

- The Solid Waste Council provides advice to the Waste Management Coordinator, the Department, and provides a forum for discussion of program, services, and enforcement issues pertaining to implementation of the Plan.
- The Solid Waste Council shall conduct a minimum of four meetings per year. Of the four meetings, a minimum of one meeting shall be conducted in each of the townships hosting disposal facilities.
- The Solid Waste Council shall make recommendations to the Board on programming, grants, budgets and enforcement issues as they pertain to implementation of the Plan or Ordinance.
- The Solid Waste Council may conduct public hearings on issues pertaining to implementation of the Plan.
- The Solid Waste Council may establish and maintain bylaws under which it will conduct proceedings, make sub-appointments, and otherwise carry out its responsibilities.
- The Solid Waste Council may negotiate and recommend to the Board agreements as may be necessary for the management of solid waste and implementation of this Plan.

Department of Waste Management

- Serve as the Designated Planning Agency for purposes of preparing Plan Updates and/or Plan Amendments if so designated by the Board of Commissioners.
- In its capacity as Designated Planning Agency, provide staff support to the Solid Waste Management Planning Committee during the Plan Update, or Plan Amendment Process and provide staff support to the Site Review Committee during any facility siting processes.
- As designated by the Board, provide programs, information and services as may be necessary to achieve goals and objectives contained in this Plan.

Waste Management Coordinator

The Board of Commissioners may hire a Waste Management Coordinator (WMC) to serve as Director of the Department of Waste Management. The WMC will be responsible to the Board of Commissioners for programming, information and services of the Department, including Plan implementation, amendments and future Plan Updates. Should the Department of Waste Management be the agency designated as the Designated Planning Agency, the Waste Management Coordinator (WMC) shall serve as the Designated Planning Agency contact for the Michigan Department of Environmental Quality. The WMC shall:

- Be responsible to the Board of Commissioners, and work with the SWC on matters pertaining to implementation of the Plan.
- Assure staff support to the SWC.
- Hire and supervise staff of the Department of Waste Management who may be responsible, under the direction of the WMC, for implementation and enforcement of the Plan.
- The WMC, through the Department of Waste Management, shall be the primary point of contact for the Department of Environmental Quality on Plan implementation matters.
- Prepare and administer an annual budget.
- Develop and direct administrative and programmatic responsibilities of the Department of Waste Management necessary to implement, administer and enforce the Plan and Ordinance including:
 - ✓ Annually evaluate the progress in accomplishing County recycling and
 waste reduction goals set forth in the Plan, and publish an annual
 report of progress toward the goal.
 - ✓ Develop a data base that accurately reflects volumes and types of waste being hauled into landfills within the Plan area.
 - ✓ Develop a data base to quantify recycling impacts.
 - ✓ Work with local units of government, service organizations and private haulers to expand recycling collection and waste reduction in the County.
 - ✓ Work with the Board and County Departments to implement the waste reduction policy and encourage recycled product procurement.
 - ✓ Develop and implement public information and education efforts aimed at individuals, students, industries, institutions, commercial establishments and other units of government for the purpose of meeting Plan goals and objectives.
 - ✓ Annually review compliance of any legally enacted agreement entered into by the County in accordance with the Plan.
 - ✓ Inspect and monitor solid waste disposal facilities within Clinton County for compliance with the Plan and Solid Waste Ordinance. The Clinton County Sheriff's Office, and police departments located in the County, are authorized upon the request of the WMC to work with the WMC on Ordinance enforcement activities.

✓ Issue appearance tickets or appearance summons to alleged violators
of the Ordinance.

Legal Capacity of the Entities Assigned Plan Implementation Responsibilities

All entities assigned responsibilities are legally established entities with legally established authority to implement programs and services specified in the Plan.

6.5 ACCEPTANCE OF RESPONSIBILITIES ASSIGNED

Parties identified in the previous section accept their roles and responsibilities as they pertain to successful implementation of the Plan. The Department of Waste Management accepts its role and responsibilities for programming, implementation and enforcement of the Plan. Documentation of acceptance of responsibilities is contained in Appendix D-2.

Local Units of Government

Local Units of Government continue to retain autonomy over how residential waste handling needs are met. However, this Plan envisions cooperative relationships between the County, Townships, Cities and Villages in matters of shared information and techniques. The County, through the Waste Management Coordinator and Department of Waste Management will provide technical assistance, and opportunities for exchange of techniques and strategies both within the County and outside the County. Issues which may be shared include cooperative purchasing of recycled content products, shared equipment (chippers, leaf vacuums, etc.), and shared techniques for collection services.

Regional Solid Waste Management Planning Agency

Tri-County Regional Planning is no longer the regional solid waste management planning agency (Designated Planning Agency). They do, however, continue to have sophisticated land use, water and zoning information and will continue to play an important support role for the County.

6.6 COORDINATION WITH OTHER PLANS AND PROGRAMS WITHIN THE PLAN AREA

Coordination with other counties in the Plan area occurs on two levels. An informally established group called the Regional Recycling Coordinators Council (R₂C₂) consisting of the education and recycling coordinators of the area assemble regularly to work cooperatively on educational programs and share information on their approaches to implementing educational components of their Plan. Additionally, the DPA's of the Plan area (and beyond) assemble to discuss matters

related to solid waste management strategies in general, policy issues and administrative challenges.

Within the County, coordination occurs on both the educational and enforcement front. The Department of Waste Management works very closely with each of the schools in the County in regard to recycling and waste reduction education. This network will continue and expand to other issues, such as purchasing of products with recycled content and waste reduction measures. Cooperative efforts with Departments, agencies and organizations within the County will also continue. Work with Cooperative Extension, Natural Resource Conservation Service, Clinton Conservation District, the Road Commission, Planning and Zoning and the Sheriff's Office are all essential to the delivery of programs, services and enforcement efforts important to residents. The Department will also be increasing its cooperation with, and assistance to, businesses by offering waste stream analysis, buy-recycled purchasing guidelines, and other forms of programming.

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6.7 TRAINING AND PROFESSIONAL DEVELOPMENT

The Board of Commissioners sets the standards for staff through established Position Descriptions. These descriptions are contained in Appendix D-5. Involvement by staff in professional development focused on waste management, recycling, the environment and purchasing issues that provide added opportunities to acquire training shall be encouraged and supported.

6.8 ENFORCEMENT, LOCAL ORDINANCES AND REGULATION

General

The Plan sets forth conditions and circumstances which, if implemented and enforced, will assure capacity for solid waste disposal, and the handling of solid waste in a manner that protects public health, safety and welfare. In implementing and enforcing the Plan, the Department will work cooperatively with other offices and local authorities to assure that persons or organizations involved in violation or improper solid waste handling situations are educated and brought into compliance.

This section of the Plan does not preclude adoption of local ordinances governing the collection and management of solid waste within a municipality so long as such ordinances do not result in a conflict with the Plan. For example, local ordinances may prescribe local funding, collection methods, restrictions on placement of waste and recyclables at the curb, etc., but may not provide for end disposal locations other than those contained within this Plan document.

Authority

In generally, the County Board of Commissioners may enact ordinances to enforce policy over which they have jurisdiction. (See MCL 46.11 et.seq. [MSA 5.331, sec. II (m)]) Part 115 delegates certain implementation and enforcement authorities over solid waste management issues to the County through an approved Solid Waste Management Plan. Under this Plan, the County will utilize a variety of mechanisms to fulfill its implementation and enforcement obligations including, but not limited to, resolutions, agreements, or ordinances. This Plan authorizes the use of a solid waste ordinance to regulate issues as specified in this section (6.8) of the Plan. The Ordinance specifies roles and responsibilities of various persons and entities involved in implementation and enforcement of the Plan. This includes: restrictions in the handling, recycling and disposal of solid waste; prescribed enforcement action which may occur in the face of violation; and details regarding funding of Plan implementation and enforcement through a user fee imposed on solid waste disposed of within Clinton County borders.

Solid Waste Handling

This Plan authorizes the use of a Solid Waste Ordinance (Appendix D-3, Articles 3 5 and 6) to define and regulate the following: The Ordinance defines solid waste generators and solid waste haulers. It stipulates what solid waste items are banned from landfill disposal and reaffirms limitations placed on the import and export of solid waste specified in this Plan. Presently only yard waste is banned from Michigan disposal facilities at the state level, but bans may include other items in the future as State or Federal Law changes and stipulates. This Plan will recognize and enforce all such bans. It is not the intent of this Plan to arbitrarily ban items from local landfills. The Ordinance reinforces and enforces the requirement that generators of solid waste may only transport, dispose of, or otherwise handle solid waste in a manner which is authorized in Part 115, or this Plan.

Disposal Facilities - Located in the County

Clinton County hosts two landfills within its boundaries. Both are owned by Granger. The Wood Road landfill is in southern DeWitt Charter Township and is bisected by the Ingham county line. The Grand River landfill is located in Watertown Charter Township. The facilities each have 30+ years of capacity remaining if they continue to receive waste at current aggregated rates of approximately 1.1 - 1.2 million cubic yards per year. Granger accommodates approximately 80 - 85% of all waste generated in Clinton County. (1997 data from the MDEQ placed this figure at 87%). There are no indications that Granger has accepted waste from outside the State of Michigan. Disposal facilities in Clinton County shall not accept municipal solid waste incinerator ash.

Other Counties and Facilities Recognized in the Plan

This Plan recognizes the following counties in its Plan: Allegan, Barry, Calhoun, Eaton, Genesee, Gratiot, Ingham, Ionia, Isabella, Jackson, Kalamazoo, Kent, Livingston, Montcalm, Oakland, Ottawa, Saginaw, Shiawassee, Washtenaw, Wayne. Waste generated from within Clinton County may be exported to these counties and waste generated from within any of these counties may be imported to Clinton County for disposal provided the following conditions are met: Counties accepting waste from Clinton County must name Clinton County in their Plan; Counties wishing to export waste to Clinton County for disposal must name Clinton County in their Plan as a county to whom they will export. Counties without facilities must promise through a written letter sent to the DPA that, should they construct a disposal facility, they will agree to accept Clinton County waste. Reciprocity is a condition of waste flow between Clinton County and these counties, however, inter-county agreements are not. Agreements will be put in place only if other counties require them as a condition of their Plan. Clinton County will not accept municipal solid waste incinerator ash for disposal in Clinton County.

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The two facilities located within Clinton County are expected to continue receiving the vast majority of Clinton County waste. However, capacity being made available in counties beyond this county's borders, further assures that residents will have a place for their waste to go for quite some time without having to consider the siting of new capacity.

Disposal Facilities - Operational Issues

Host Agreements or Memorandums of Understanding

During much of the previous planning period, commencing in 1990, Clinton County's relationship with the two Granger landfills was defined through negotiated agreements called Memorandums of Understandings (MOU's). For the facility located in Watertown Township, the MOU replaced a Special Use Permit governing operational issues at the facility which was enacted when the siting and operations of landfills were still a part of local zoning. County-based authorized Solid Waste Plans required to identify or site disposal capacity for waste generated from within their area, took the place of local zoning. The legislative intent behind this change was to remove the ability of local municipalities to 'zone-out' disposal facilities as land uses. Thus, the Plans and their implementation mechanisms (including agreements, resolutions, ordinances, etc.) have replaced the SUP function.

Similar to the former SUP's, the MOU's or Host Agreements generally deal with locally defined issues, such as hours of operation, waste flow control or annual caps, berming, appearance issues, noise, tracking, litter collection and service provision to host municipalities or the County. The MOU between the Grand River landfill in Watertown Township and the County expired November of 1997. The MOU for the Wood Road landfill was cancelled in December, 1998.

Some aspects of agreements used to define the relationship between the public and disposal facilities have not worked well. However, this Plan continues to recognize the value of and preference for negotiated relationships. Therefore, while agreements are not central to defining such relationships, they are not precluded from future use.

Should a legally executed and valid agreement be entered into which specifically addresses landfill operation stipulations contained within an adopted Solid Waste Ordinance, or as provided for in this Plan, the negotiated terms of the agreement shall have precedence over the Ordinance and this Plan, so long as it is not in conflict with state and federal laws. Precedence is limited, however, to each specific issue or restriction addressed by the agreement and shall not render any other portions of an enacted Solid Waste Ordinance or the Plan null.

Return to Approval Letter

Solid Waste Ordinance

The Plan authorizes a baseline standard of operations for disposal facilities in Chinton County in this document and through a Solid Waste Ordinance. Article 5 of the Solid Waste Ordinance contained in Appendix D-3 specifies each regulatory standard.

The Plan finds that certain regulations of disposal areas located in Clinton County are necessary to ensure the availability of capacity, and the health, safety and welfare of the public. Issues identified in this Plan may not all be stipulated in the Ordinance contained in Appendix D-3. However, they are appropriate issues which are, or may be, regulated should changes in the market, disposal facilities located in the county, or operational procedures at current disposal facilities occur. The following issues are or may be regulated through the Clinton County Ordinance, are specified in Article 5 of the Ordinance, and are enforceable so long as they do not conflict with State Law.

- Ancillary construction details such as landscaping and screening
- Hours of operation
- · Noise, litter, odor, dust and mud-tracking
- Data reports pertaining to quantities of solid waste collected by type (Type I, Type II, Type III, commercial, industrial, residential) and county of origin
- Monitoring correspondence between facilities and the MDEQ pertaining to leachate collection, quarterly inspections and monitoring well reports.
- · Facility security matters
- Monitoring of wastes accepted and prohibited (municipal solid waste incinerator ash)
- · Recycling, so long as it is not source separated
- Annual caps
- Facility capacity reporting
- Right of entry and inspection
- Facility end use
- Licensing of haulers or other 'Non-Disposal Area' activities
- Entrance, egress and traffic related issues

This Plan reflects optimism that disposal area operators and owners will continue to exercise care in abiding by the law and being good corporate citizens of the

County. Regulations included in the Ordinance also reflect this perception. Some issues itemized above are not currently regulated in the Ordinance. Additionally, some parts of the Ordinance allow for differing levels of restriction if provisions are negotiated and provided for in a legally executed agreement. Stipulations currently contained in the Ordinance are not meant to be all inclusive of issues identified in this Plan. The Ordinance may require revision in the future to properly address matters contained in the above listing if they become problematic under future unforeseeable circumstances.

The Ordinance is the implementing arm of the Plan for issues pertaining to facility operations. Therefore, stipulations contained within the Ordinance provide detail on and supercede the following general guidelines. However, should the Ordinance fail, for whatever reason, to be adopted or is otherwise not in force, any disposal facility operating partially or completely in Clinton County without an Agreement in place between the County and the facility owner/operator shall be subject to the following minimum requirements:

- Each facility shall control and, remediate if necessary, mud-tracking, noise, odor and other nuisance issues, as may be judged by the WMC or MDEQ as posing problems which risk the health, safety and welfare of citizens.
- Each facility shall control and remediate traffic problems which are verified as partially or completely caused by the facility.
- Each facility shall not operate beyond the hours of 6:30 am to 4:30 pm
 Monday through Saturday unless otherwise authorized by state or federal law, a legally executed agreement or a waiver granted by the WMC which does not risk the health, safety and welfare of residents.
- The sum of all facilities in the County will not accept waste for end disposal in amounts that exceed a maximum annual cap of 2,500,000 cubic yards per year. However, the facility owner/operators may only accept up to 2,000,000 cubic yards per year unless they petition the Board to increase the 2,000,000 cubic yards cap by an amount of up to 500,000 cubic yards. The Board shall grant such an increase if the landfill facility owner/operators requesting the increase, confirm in writing that the increase will not jeopardize:
 - a) the availability of 10 years disposal capacity from the date of the request for a cap expansion,
 - b) their ability to meet Part 115 requirements,
 - c) their ability to review traffic, mud-tracking or litter nuisances,
 - d) a maximum annual cap of 2,500,000 cubic gate yards

Once approved by the Board, the annual increase of up to 500,000 shall renew automatically unless the Board reviews the above conditions and

finds that the landfill facility owner/operators, who received the increase, have not met the commitments they confirmed.

The Board must act upon a petition for cap increase within 90 days of receiving the request. Within the 90 day period, the Board shall notice and hold a public hearing on the request, at which time the Board will formally receive the written confirmation.

The MDEQ shall be notified of any changes in the annual cap.

If another facility should be sited in Clinton County beyond those facilities located in the County at the time of this Plan enactment, a Plan amendment would implemented to increase the cap.

- No facility in Clinton County may import municipal solid waste incinerator ash for disposal.
- Upon the effective date of this Plan, landscaping and screening provided at
 disposal facilities located within the County were regarded as satisfactory
 by the County. Should changes be made to entrance locations, entrance
 location landscaping, or should there be a catastrophic occurrence such that
 present screening and landscaping is materially degraded, the facilities'
 owners/operators will meet with local officials prior to conducting repairs or
 providing new landscaping.
- Each facility shall submit monthly data detailing the amount of waste accepted and county of origin. Facility owner/operators shall maintain data apportioning the quantity of waste disposed by types: residential, commercial, industrial and construction/demolition. Annually, the WMC shall be permitted access to review this data on site. However, the WMC is precluded from taking notes regarding such data and will only report trends, not specific data or percentages in public records. Viewing of such data will be used to aid assessment of Plan implementation impact, only.

Licensing

Concerns have been expressed in the past regarding obtaining data from solid waste and recycling companies. Accurate data is necessary to evaluate the progress of Plan implementation, for tracking illegal dumping, and addressing concerns related to types of services provided to residents by service providers. At this time, the Plan strategy will be to address these issues through improving working relationships with haulers, education, and increased enforcement in the case of illegal dumping.

However, if this strategy fails to adequately address any or all of these issues, the County may choose to enact a licensing program to do so, outside the auspices of this Plan. A draft document contained in Appendix D-4 conceptualizes the breadth and purpose of a licensing program.

Certified Health Department

The county may make application to the MDEQ for certified health department status. As a certified health department, the local health department would be allowed to perform duties prescribed in part 115 relating to disposal facilities located within the county. Funding for local health department responsibilities would be derived from the same source as funding for the Department of Waste Management. (The Plan does not intend that a second user fee be levied.)

This action might address perceived ambiguities regarding the county's role in enforcement issues. Certified health departments are explicitly referenced in part 115 and their duties specifically prescribed. They are not, however, responsible for solid waste management plan development or implementation unless they request that such duties be added to responsibilities described in part 115.

Under this scenario, the health department would conceivably assume regulatory, and enforcement responsibilities as prescribed in part 115 which are associated with disposal facilities located in the planning area. It may also assume enforcement responsibilities as outlined in the plan which are not designated in part 115 but contained in this approved Plan. The Department of Waste Management would continue to perform non-enforcement duties and carry out remaining plan implementation duties.

6.9 FUNDING PROGRAM

Implementation of this Plan requires financial support. Costs associated with programs are detailed in the budgets of Appendix A-1f for years 1997, 1998 and 1999, and estimated projections are contained in Appendix A-1e. User fees collected will be segregated in a separate fund and may only be used for the purpose of implementing this Plan or processing future amendments or Plan updates as determined by the Board of Commissioners. Fees are set at rates sufficient to compensate costs and may be adjusted up or down dependent upon need

User Fee

Funding will primarily be derived from a user fee levied on users of the landfills located in Clinton County. User fees may be collected through agreements with landfill owner/operators, or they may be collected through levy.

<u>User Fee - Through Agreement:</u>

Implementation of the Solid Waste Plan is funded through an agreement between Clinton County and the current facilities owner/operators - Granger Companies. Granger agrees to collect and remit a user fee, currently set at \$.25/cubic yard of waste landfilled in Clinton County for the life of both Granger facilities. (Appendix A-1g)

<u>User Fee - Through Levy:</u>

If the User Fee Agreement should cease to exist or be terminated, this Plan intends that a user fee be levied on users of the landfills located in Clinton County. The Fee is established at \$.30/cubic yard and may not increase by more than \$.10/year. Through the same Agreement mentioned above, it is agreed that the County will not levy an amount exceeding \$.40/cubic yard, even if the Agreement should expire. The Fee is to be collected at the gate of the landfills by the facility owner/operator and remitted monthly to the County. Fees will be reviewed at least annually and may be adjusted up or down by the Board to provide for Plan implementation, amendments and/or Plan update budgetary needs. This is also provided for and detailed in Article 7 of the Solid Waste Ordinance.

Other Funding Sources

Other funding methods are acknowledged as legitimate and appropriate and may provide supplemental or alternative funding. Should state level legislation be adopted which provides for adequate funding of solid waste management plan implementation, the Board of Commissioners will reassess the need for user fee mechanisms and may choose to alter their use at that time. Decisions determining which mechanisms will be used, shall be made by the Board of Commissioners. Other funding mechanisms authorized for use should the User Fee method not be utilized include the following:

- General Tax Levy on the Public: P.A. 138 provides that a per household tax may be approved by the public to provide funding for solid waste management plan implementation.
- General Fund Dollars: A yearly allocation would be made dependent upon funds available to provide for solid waste management plan implementation.
- Generator Fee: Passing of a solid waste fee by the Board of Commissioners on businesses and residents of Clinton County. (Eaton County Model implemented through licensing).
- Grants: The Department of Waste Management is authorized to pursue grant funding from local, state and federal agencies and/or foundations.

- Licensing: A fee levied on vehicles that transport solid waste in Clinton County.
- Or, a combination of the above mentioned alternatives.

Fund management and requirements

Regardless of whether the Fee is levied, or whether it is collected and remitted through Agreement, the following shall apply:

- A user fee specified by the Board or by Agreement will be collected from landfill users and remitted to the County Treasurer for all waste deposited in any landfill or portion of a landfill located in Clinton County.
- User fees collected through Levy or Agreement will be collected monthly and deposited in a segregated fund for the exclusive purpose of funding implementation of the Plan. Unless otherwise stipulated in an Agreement, fees are due by the 15th of the subsequent month.
- Should a user of the disposal facility refuse to pay the user fee levied or
 enacted through an Agreement, the landfill owner/operator may either
 refuse to receive the solid waste contained in that load, or the facility
 owner/operator may pay the user fee and admit the solid waste for disposal.

6.10 CAPACITY CERTIFICATION

This County has more than ten years capacity identified in this Plan and an annual certification process is not included in this Plan. Sufficient capacity for disposal of Clinton County generated solid waste for the next ten years is demonstrated through promises indicated from counties and landfills within and outside of this County.

Facilities located in the County at the time of this Plan enactment, receive the majority of waste generated from within Clinton County. These two facilities have a combined total of 18,598,000 air yards of space available and annually accept, on a combined basis approximately 1,200,000 cubic gate yards per year. This is equivalent to approximately 600,000 (compacted) air yards once disposed of in the facility. At this continued rate, the facilities will last for 31 years. Between 75% and 80% of Clinton County waste is already included in the 1,200,000 yard annual total. To add another 20% of Clinton County waste would shorten the life expectancy of currently sited space to 30¼ years.

An annual cap of 2,000,000 cubic gate yards per year is imposed on the combined total amount of waste permitted for disposal in the two facilities located in the County, unless they have petitioned the County to increase that amount (see section 6.8, part titled Solid Waste Ordinance in this Plan) by up to 500,000 cubic yards per year. The facilities have a combined existing capacity for disposal of a

combined total of 37,196,000 gate yards. At this rate, existing facility capacity would last for 18.6 years. Should the annual cap be increased to a maximum cap of 2,500,000, and using the same calculations, the facility would last for 14.88 years, which still exceeds the 10 year assurance requirement. This assumes that the facilities will reach this cap amount during this Plan period, however current volumes are at a substantially lower rate - actually increasing the number of years capacity would be available.

This capacity accommodation is supplemented by space promises from other facilities in the 20 counties included in the Plan.

Venice Park and Pitsch landfills both have pending expansions which are not included in the above mentioned figures.

The County needs 150,000 yards of space per year for the next five years. The majority of listed facilities have each agreed to accept all Clinton County generated waste; thus further expanding already adequate disposal space available.

Letters of Commitment are contained in Appendix D-1.

6.11 AMENDMENT OF THE PLAN

The Plan may be amended through the process provided for in Part 115. Initiation of the plan amendment process by parties other than the Board of Commissioners requires submittal of a letter to the Board of Commissioners with copies forwarded to the Michigan Department of Environmental Quality and the Designated Planning Agency of the County.