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

DATE SUBMITTED TO THE DEQ: TBD

If this Plan includes more than a single County, list all counties participating in this Plan.

Not applicable.

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

Not applicable.

DESIGNATED PLANNING AGENCY PREPARING THIS PLAN UPDATE:

Region 2 Planning Commission
120 W. Michigan Avenue
Jackson, Michigan 49201

CONTACT PERSON: Grant E. Bauman, AICP, Principal Planner

ADDRESS: Region 2 Planning Commission
120 W. Michigan Avenue
Jackson, MI 49201

PHONE: (517) 768-6711 FAX: (517) 788-4635
EMAIL: gbauman@co.jackson.mi.us

CENTRAL REPOSITORY LOCATION(S):
1. Old Lenawee County Courthouse, 301 N. Main Street, Adrian, Michigan 49221.
2. Region 2 Planning Commission, 120 W. Michigan Avenue, Jackson, Michigan 49201.
Alternative # 1  Lenawee County sets as its goal the overall State goal for solid waste management.

In accordance with the Michigan Department of Environmental Quality’s goals for solid waste management, Alternative #1 calls for the county to meet the following standards in 2005.¹

- Reduction in waste generation: 10%
- Reuse of waste: 5%
- Composting: 10%
- Recycling: 25%
- Waste-to-energy: 40%
- Landfilling: 15%

Approximately 75-80% of Lenawee County’s waste is currently landfilled. Therefore, meeting the State’s goals for solid waste management would involve dramatic changes in the current disposal system.

Alternative # 2  Close the Adrian Landfill, Transfer Waste out of County through Transfer Stations

This alternative assumes that the Adrian Landfill will be closed and capped and that all waste will be transferred out of Lenawee County using transfer stations. These transfer stations would be located at 5-6 convenient sites throughout the county. Waste would be delivered to the transfer stations by waste haulers and residents. Each transfer station is assumed to provide recycling drop-off facilities. Presorted waste is assumed to remain sorted after leaving the transfer station. Ultimate disposal areas are likely to include the Williams County Landfill, Vienna Junction Landfill, Arbor Hills Landfill, and the Jackson County incinerator and landfill.

The Adrian Landfill currently takes in over 98% of Lenawee County’s solid waste so this alternative would involve dramatic changes from the current solid waste management system.

Alternative # 3  Retain the Existing System with Modifications

The preferred alternative in the 2016 amendment remains “retain the existing system with modifications”. The Solid Waste Planning Committee took great pains to identify all of the components of the system and to allow them to continue while allowing for modifications. Consequently, from a countywide perspective no changes in how a local household currently receives solid waste transport and/or recycling services are needed. However it should be noted that the alternative allows local municipalities to continue making changes within their jurisdictions which directly affect households. Lenawee County also needs to identify a way to

¹ Percentages are averaged from MDEQ policy ranges.
pay for the various solid waste and recycling services it provides due to the loss of revenue received from Adrian Landfill tipping fees. The cost associated with the ultimate solution to that issue may or may not directly affect the general public. Finally, the amendment calls for the reopening and/or expansion of the Adrian Landfill rather than allowing for a new landfill to be constructed in Lenawee County, protecting the general public from the likely effects of a new disposal area.
SELECTED SYSTEM

THE SELECTED SOLID WASTE MANAGEMENT SYSTEM

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

Alternative #3—‘Retain the Existing System with Modifications’—is described below, utilizing the ‘decision areas’ and ‘decision choices’ identified in the ‘decision table’.

- **Will solid waste be disposed of in landfills located inside and/or outside of the County and what landfills will be included in the selected system?**
  
  Solid waste generated in Lenawee County may be disposed of in landfills located outside of Lenawee County. Solid waste generated in the County may also be disposed of inside of the County whenever the proprietors of the Adrian Landfill resume accepting solid waste at the disposal area. Various landfills located outside of the County utilized regularly by trash haulers are included in the selected system. The plan does not foresee any need for a new landfill within the County. The Adrian Landfill should be reopened — and expanded if necessary — if additional landfill capacity within the County is ever required.

- **Who will collect and transport solid waste?**
  
  Solid waste will be collected and transported by private sector trash haulers. Throughout most of Lenawee County, trash haulers will compete directly for individual customers (i.e. households and businesses). However, local governments who wish to contract with a single hauler to serve their constituents are free to do so; in fact, the Cities of Adrian, Hudson, Morenci, and Tecumseh and the Villages of Blissfield, Britton, and Clinton provide curbside service to their residents. Rollin Township operates a transfer facility for its residents and the residents of Hudson Township.
• **Who will provide and fund solid waste education?**

Lenawee County will continue to execute a solid waste education program. The source of program funding is still an open question given the loss of tipping fees from the Adrian Landfill. Trash haulers, municipalities, and other organizations involved in solid waste management may also provide educational programs at their own discretion and expense. The County, municipalities, and organizations may pursue grants to fund solid waste education.

• **How will transfer facilities be utilized and who will choose the transfer facilities to be utilized?**

Municipalities may own and operate transfer facilities in the County; Rollin Township already operates such a type B transfer facility. Transfer facilities may also be owned and operated by the private sector; the City of Hillsdale, Modern Waste, and Stevens Disposal and Recycling operate private type A transfer facilities in Hillsdale, Jackson, and Monroe Counties, respectively. Individual households and businesses will make the decision to utilize transfer facilities in general as well as a specific facility. The County and municipalities may also organize various community clean-up events (e.g., electronics and other household items, unused pharmaceuticals, batteries, etc.).

• **What methods will be used to increase the amount of solid waste collected?**

Lenawee County will not enact a mandate to increase the proper collection and disposal of solid waste although it may be an advocate. For example, the County provides educational outreach at the Lenawee County Recycling Center (DOS) via radio and newspaper articles, social media, the Lenawee County Fair, and various collection events (i.e., tires, Styrofoam, electronics, household items, and household hazardous waste). The plan does not bar municipalities from enacting their own mandates or to become advocates of the practice.

• **What methods will be used to increase the amount of solid waste recycled?**

Lenawee County will not enact a mandate to increase the amount of recycled solid waste although it may be an advocate. For example, the County operates the Lenawee County Recycling Center (DOS). The private sector may also advocate for increased recycling by providing the option to their customers as well as providing financial incentives (e.g., a customer may require a smaller less costly container if more is recycled). Those municipalities which contract for trash hauling services on behalf of their constituents may also advocate by including recycling in that service. The Charter Townships of Adrian and Raisin provide recycling drop-off sites for their residents. Various other public, quasi-public and private organizations provide recycling opportunities for batteries (i.e., Battery Wholesale, Staples, and Lowe’s), metal (i.e., OmniSource, Bar Recycling, and R&M Recycling), mailing and mailing supplies (i.e., US Post Offices, and Postal Plus), household items and clothing (i.e., Goodwill Industries, Associated Charities, and Salvation Army), some electronics (i.e., Goodwill Industries, and Staples), compact florescent bulbs (CFLs) (i.e., Lowe’s, and Michigan Energy Cooperative), prescription drugs (i.e., Lenawee County Sheriff’s Department, Adrian Police Department, Hudson Police Department, Tecumseh Police Department, Raisin Township Public Safety Department, Hudson Pharmacy, and Schmidt & Sons Pharmacies), and plastic bags (i.e., Lowe’s, Country Market, and Elder Beerman/Adrian Mall, Meijer). Various service organizations also recycle newspapers.
## Alternative #3: Retain the Existing System with Modifications

<table>
<thead>
<tr>
<th>Solid waste and recycling areas (i.e., disposal sites/facilities)</th>
<th>Solid waste and recycling programming</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Disposal Areas</strong></td>
<td><strong>Sources of program Funding</strong></td>
</tr>
<tr>
<td>&quot;Mothballing&quot; of the Adrian Landfill continues (landfill may reopen)</td>
<td>Advocated by municipalities, Lenawee County, and/or the private sector</td>
</tr>
<tr>
<td>Do not locate new landfills in Lenawee County</td>
<td>Funded by Lenawee County and/or municipal budgets</td>
</tr>
<tr>
<td>Transfer solid waste out of Lenawee County</td>
<td>Recycling education</td>
</tr>
<tr>
<td>Transfer facilities</td>
<td>Data collection</td>
</tr>
<tr>
<td>Direct transport of solid waste</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Collection and transportation</strong></th>
<th><strong>Method(s) to increase proper disposal and recycling</strong></th>
<th><strong>Sustaining County programs</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual customers</td>
<td>Recycling centers and services, including special events:</td>
<td></td>
</tr>
<tr>
<td>Municipal contracts</td>
<td>Processing plants</td>
<td></td>
</tr>
<tr>
<td>Private haulers:</td>
<td>Method(s) to increase proper disposal and recycling</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Solid Waste Processing Plants that accept recyclable materials</strong></th>
<th><strong>Incentives for proper disposal of solid waste and recycling</strong></th>
<th><strong>Recycling center and services, including special events</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Incentives for proper disposal of solid waste and recycling</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Penalties for illegal disposal of solid waste (e.g., dumping, etc.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Sources of program Funding</strong></th>
<th><strong>Exploring grant funding and State/County funding opportunities</strong></th>
<th><strong>Countwide mileage (passed by referendum)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Sustaining County programs</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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III-1c
SELECTED SYSTEM

IMPORT AUTHORIZATION
If a licensed solid waste disposal area is currently operating within the county, disposal of solid waste generated by the following EXPORTING COUNTIES are authorized by Lenawee County up to the authorized quantity according to the conditions authorized in Table 1-A.

Table 1-A
CURRENT IMPORT VOLUME AUTHORIZATION OF SOLID WASTE

<table>
<thead>
<tr>
<th>IMPORTING COUNTY</th>
<th>EXPORTING COUNTY</th>
<th>FACILITY NAME</th>
<th>AUTHORIZED QUANTITY/DAILY</th>
<th>AUTHORIZED QUANTITY/ANNUAL</th>
<th>AUTHORIZED CONDITIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lenawee</td>
<td>Branch</td>
<td></td>
<td></td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Calhoun</td>
<td></td>
<td></td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Clinton</td>
<td></td>
<td></td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Eaton</td>
<td></td>
<td></td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Genesee</td>
<td></td>
<td></td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Hillsdale</td>
<td></td>
<td></td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Ingham</td>
<td></td>
<td></td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Jackson</td>
<td></td>
<td></td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Lapeer</td>
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<td></td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Livingston</td>
<td></td>
<td></td>
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<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Monroe</td>
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<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Macomb</td>
<td></td>
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<td>P</td>
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<tr>
<td>Lenawee</td>
<td>Oakland</td>
<td></td>
<td></td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Washtenaw</td>
<td></td>
<td></td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Wayne</td>
<td></td>
<td></td>
<td></td>
<td>P</td>
</tr>
</tbody>
</table>

n/a - not applicable

a. Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county. Authorization indicated by P = Primary Disposal; C = Contingency Disposal; * = Other conditions exist and detailed explanation is included in the Attachment Section.
**SELECTED SYSTEM**

If a new solid waste disposal area is constructed and operating in the future in the county, then disposal of solid waste generated by the exporting county is authorized by the importing county up to the authorized quantity according to the authorized conditions in Table 1-B.

**Table 1-B**

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

<table>
<thead>
<tr>
<th>IMPORTING COUNTY</th>
<th>EXPORTING COUNTY</th>
<th>FACILITY NAME</th>
<th>AUTHORIZED QUANTITY/DAILY</th>
<th>AUTHORIZED QUANTITY/ANNUAL</th>
<th>AUTHORIZED CONDITIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

n/a - not applicable

- Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.
- Authorization indicated by P = Primary Disposal; C = Contingency Disposal; * = Other conditions exist and detailed explanation is included in the Attachment Section.
SELECTED SYSTEM
EXPORT AUTHORIZATION

If a licensed solid waste disposal area is currently operating with another county, disposal of solid waste generated by the exporting county is authorized up to the authorized quantity according to the conditions authorized in Table 2-A if authorized for import in the approved solid waste management plan of the receiving county.

Table 2-A
CURRENT EXPORT VOLUME AUTHORIZATION OF SOLID WASTE

<table>
<thead>
<tr>
<th>EXPORTING COUNTY</th>
<th>IMPORTING COUNTY</th>
<th>FACILITY NAME</th>
<th>AUTHORIZED QUANTITY/DAILY</th>
<th>AUTHORIZED QUANTITY/ANNUAL</th>
<th>AUTHORIZED CONDITIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lenawee</td>
<td>Branch</td>
<td></td>
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<td>P</td>
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<tr>
<td>Lenawee</td>
<td>Calhoun</td>
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<td>P</td>
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<tr>
<td>Lenawee</td>
<td>Clinton</td>
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<tr>
<td>Lenawee</td>
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<tr>
<td>Lenawee</td>
<td>Genesee</td>
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<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Hillsdale</td>
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</tr>
<tr>
<td>Lenawee</td>
<td>Ingham</td>
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<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Jackson</td>
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<td></td>
<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Livingston</td>
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<td>P</td>
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<tr>
<td>Lenawee</td>
<td>Macomb</td>
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<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Monroe</td>
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<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Oakland</td>
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<td></td>
<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Washtenaw</td>
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<td></td>
<td>P</td>
</tr>
<tr>
<td>Lenawee</td>
<td>Wayne</td>
<td></td>
<td></td>
<td></td>
<td>P</td>
</tr>
</tbody>
</table>

n/a - not applicable

a. Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.
b. Authorization indicated by P = Primary Disposal; C = Contingency Disposal; * = Other conditions exist and detailed explanation is included in the Attachment Section.
SELECTED SYSTEM

If a new solid waste disposal area is constructed and operates in the future in another county, then disposal of solid waste generated by the exporting county is authorized up to the authorized quantity according to the authorized conditions in Table 2-B if authorized for import in the approved solid waste management plan of the receiving county.

Table 2-B

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

<table>
<thead>
<tr>
<th>EXPORTING COUNTY</th>
<th>IMPORTING COUNTY</th>
<th>FACILITY NAME</th>
<th>AUTHORIZED QUANTITY/DAILY</th>
<th>AUTHORIZED QUANTITY/ANNUAL</th>
<th>AUTHORIZED CONDITIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lenawee</td>
<td>Lapeer</td>
<td></td>
<td></td>
<td></td>
<td>P</td>
</tr>
</tbody>
</table>

n/a - not applicable

a. Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.
   Authorization indicated by P = Primary Disposal; C = Contingency Disposal; * = Other conditions exist and detailed explanation is included in the Attachment Section.
SELECTED SYSTEM

SOLID WASTE DISPOSAL AREAS

The following identifies the names of existing disposal areas which will be used to provide the required capacity and management needs for the solid waste generated within the county for the next five and ten years and, if possible, the next ten years. Pages III-7a through III-14d contain descriptions of the solid waste disposal facilities which are located within the county and the disposal facilities located outside of the county which will be used by the county for the planning period. Additional facilities within the county with applicable permits and licenses may be used as they are sited by this plan, or amended into this plan, and become available for disposal. If this plan update is amended to identify additional facilities in other counties outside the county, those facilities may only be used if such import is authorized in the receiving county’s plan. Facilities outside of Michigan may also be used if legally available for such use.

**Type II Landfill:**
- Adrian Landfill
- Carleton Farms Landfill
- Woodland Meadows Landfill
- McGill Road Landfill
- Williams County Landfill
- Evergreen RDF

**Type III Landfill:**
- Liberty Environmentalists Landfill

**Incinerator:**
- None

**Waste-to-Energy Incinerator:**
- None.

**Type A Transfer Facility:**
- Modern Waste Systems
- Stevens Disposal and Recycling
- City of Ann Arbor

**Type B Transfer Facility:**
- Rollin Township Transfer Station
- Jefferson Township Transfer Station

**Processing Plant:**
- Modern Waste Systems
- Stevens Disposal and Recycling
- City of Ann Arbor

**Waste Piles:**
- None

**Other:**
- None
SELECTED SYSTEM
FACILITY DESCRIPTIONS

Facility Type: Type II Landfill
Facility Name: Adrian Landfill Inc.
County: Lenawee Location: Town: 7S Range: 4E Section(s): 6 & 7

Map identifying location included in Attachment Section: Yes No

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

☐ Public ☒ Private Owner: Republic Services

Operating Status Waste Types Received
☐ Open ☒ Residential
☒ Closed ☒ Commercial
☒ Licensed ☒ Industrial
☐ Unlicensed ☒ Construction and Demolition
☒ Construction Permit ☒ Contaminated Soils
☐ Open, but Closure ☐ Special Wastes*
☐ Pending ☐ Other Processing:

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

______________________________________________________________________________

Site Size:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total area of facility property:</td>
<td>380.4</td>
</tr>
<tr>
<td>Total area site for use:</td>
<td>78.6</td>
</tr>
<tr>
<td>Total area permitted:</td>
<td>78.6</td>
</tr>
<tr>
<td>Operating:</td>
<td>26.9</td>
</tr>
<tr>
<td>Not excavated:</td>
<td>24.7</td>
</tr>
<tr>
<td>Closed:</td>
<td>9.1</td>
</tr>
<tr>
<td>Isolation and Ancillary</td>
<td>17.9</td>
</tr>
<tr>
<td>Current capacity:</td>
<td>N/A</td>
</tr>
<tr>
<td>Estimated lifetime:</td>
<td>N/A</td>
</tr>
<tr>
<td>Estimated days open per year:</td>
<td>N/A</td>
</tr>
<tr>
<td>Estimated yearly disposal volume:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

(if applicable)
Annual energy production:

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

Facility Type: Type II Landfill
Facility Name: Carleton Farms Landfill
County: Wayne Location: Town: 4S Range: 8E Section(s):
Map identifying location included in Attachment Section: ☐ Yes ☒ No

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

☐ Public ☒ Private Owner: Republic Services

Operating Status Waste Types Received
☒ Open ☒ Residential
☐ Closed ☒ Commercial
☒ Licensed ☒ Industrial
☐ Unlicensed ☒ Construction and Demolition
☒ Construction Permit ☒ Contaminated Soils
☐ Open, but Closure ☐ Special Wastes*
☐ Pending ☐ Other Processing:

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

Site Size:

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total area of facility property:</td>
<td>664.0 acres</td>
</tr>
<tr>
<td>Total area site for use:</td>
<td>664.0 acres</td>
</tr>
<tr>
<td>Total area permitted:</td>
<td>426.9 acres</td>
</tr>
<tr>
<td>Operating:</td>
<td>241.8 acres</td>
</tr>
<tr>
<td>Not excavated:</td>
<td>67.0 acres</td>
</tr>
</tbody>
</table>

Current capacity: 103,965,200 ☐ tons or ☐ cubic yards per day
Estimated lifetime: 50 years
Estimated days open per year: 312 days
Estimated yearly disposal volume: 1,500,000 ☒ tons or ☑ cubic yards

(if applicable)
Annual energy production:
Landfill gas recovery projects: 80,000 megawatts
Waste-to-energy incinerators: ______ megawatts
FACILITY DESCRIPTIONS

Facility Type: Type II Landfill
Facility Name: Woodland Meadows RDF

County: Wayne Location: Town: 3S Range: 8E Section(s): Map identifying location included in Attachment Section: ☑ Yes ☐ No

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

☑ Public ☑ Private Owner: Waste Management

Operating Status Waste Types Received
☑ Open ☑ Residential
☐ Closed ☒ Commercial
☑ Licensed ☒ Industrial
☐ Unlicensed ☒ Construction and Demolition
☐ Construction Permit ☒ Contaminated Soils
☐ Open, but Closure ☐ Special Wastes*
☐ Pending ☐ Other Processing:

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

Site Size:
Total area of facility property: 269 acres
Total area site for use: 250 acres
Total area permitted: 206 acres
Operating: 127 acres
Not excavated: 19 acres

Current capacity: 5,800 ☒ tons or ☐ cubic yards per day
Estimated lifetime: 12 years
Estimated days open per year: 304 days
Estimated yearly disposal volume: 1,800,000 ☒ tons or ☐ cubic yards

(if applicable)
Annual energy production:
Landfill gas recovery projects: ________ megawatts
Waste-to-energy incinerators: ________ megawatts

III-9a
FACILITY DESCRIPTIONS

Facility Type: Type II Landfill
Facility Name: McGill Road Landfill
County: Jackson  Location: Town: 2S  Range: 1E & 1W  Section(s): 19 & 24

Map identifying location included in Attachment Section: ☑ Yes ☐ No

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

<table>
<thead>
<tr>
<th>Operating Status</th>
<th>Waste Types Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Open</td>
<td>☑ Residential</td>
</tr>
<tr>
<td>☐ Closed</td>
<td>☑ Commercial</td>
</tr>
<tr>
<td>☑ Licensed</td>
<td>☐ Industrial</td>
</tr>
<tr>
<td>☐ Unlicensed</td>
<td>☐ Construction and Demolition</td>
</tr>
<tr>
<td>☑ Construction Permit</td>
<td>☑ Contaminated Soils</td>
</tr>
<tr>
<td>☐ Open, but Closure</td>
<td>☐ Special Wastes*</td>
</tr>
<tr>
<td>☐ Pending</td>
<td>☐ Other Processing:</td>
</tr>
</tbody>
</table>

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

Site does not accept friable asbestos

---

Site Size:

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total area of facility property:</td>
<td>134.1 acres</td>
</tr>
<tr>
<td>Total area site for use:</td>
<td>40.2 acres</td>
</tr>
<tr>
<td>Total area permitted:</td>
<td>15.2 acres</td>
</tr>
<tr>
<td>Operating:</td>
<td>12.0 acres</td>
</tr>
<tr>
<td>Not excavated:</td>
<td>3.2 acres</td>
</tr>
<tr>
<td>Current capacity:</td>
<td>838,000 tons or ☑ cubic yards per day</td>
</tr>
<tr>
<td>Estimated lifetime:</td>
<td>13 years</td>
</tr>
<tr>
<td>Estimated days open per year:</td>
<td>270 days</td>
</tr>
<tr>
<td>Estimated yearly disposal volume:</td>
<td>50,000 ☑ tons or ☐ cubic yards</td>
</tr>
</tbody>
</table>

(if applicable)

Annual energy production:

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landfill gas recovery projects:</td>
<td></td>
</tr>
<tr>
<td>Waste-to-energy incinerators:</td>
<td></td>
</tr>
</tbody>
</table>

III-10a
FACILITY DESCRIPTIONS

Facility Type: Type II Landfill
Facility Name: Williams County Landfill

County: Williams (Ohio)  Location: Town: 1N  Range: 2E
Section(s): 35,36

Map identifying location included in Attachment Section: ☐ Yes ☑ No

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

☐ Public  ☑ Private  Owner: Republic Services

<table>
<thead>
<tr>
<th>Operating Status</th>
<th>Waste Types Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Open</td>
<td>☑ Residential</td>
</tr>
<tr>
<td>☐ Closed</td>
<td>☑ Commercial</td>
</tr>
<tr>
<td>☑ Licensed</td>
<td>☑ Industrial</td>
</tr>
<tr>
<td>☐ Unlicensed</td>
<td>☑ Construction and Demolition</td>
</tr>
<tr>
<td>☐ Construction Permit</td>
<td>☑ Contaminated Soils</td>
</tr>
<tr>
<td>☐ Open, but Closure</td>
<td>☐ Special Wastes*</td>
</tr>
<tr>
<td>☐ Pending</td>
<td>☐ Other Processing:</td>
</tr>
</tbody>
</table>

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

Site Size:

- Total area of facility property: 639 acres
- Total area site for use: __________ acres
- Total area permitted: 160 acres (☐ tons or ☑ 20,985,706 cubic yards)
- Operating: __________ acres (☐ tons or ☑ 322,936 cubic yards)
- Not excavated: __________ acres

- Current capacity: 350 ☑ tons or ☐ cubic yards per day
- Estimated lifetime: 74 years
- Estimated days open per year: 280 days
- Estimated yearly disposal volume: 95,000 ☑ tons or ☐ cubic yards

(if applicable)

- Annual energy production:
  - Landfill gas recovery projects: ______ megawatts
  - Waste-to-energy incinerators: ______ megawatts
FACILITY DESCRIPTIONS

Facility Type: Type II Landfill
Facility Name: Evergreen RDF
County: Wood (Ohio) Location: Town: Range: Section(s):
Map identifying location included in Attachment Section: ☐ Yes ☒ No

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

□ Public ☒ Private Owner: Waste Management of Ohio
Operating Status Waste Types Received
☒ Open ☒ Residential
☐ Closed ☒ Commercial
☒ Licensed ☒ Industrial
☐ Unlicensed ☒ Construction and Demolition
☐ Construction Permit ☒ Contaminated Soils
☐ Open, but Closure ☞ Special Wastes*
☐ Pending ☐ Other Processing:

*Explanation of special wastes, including a specific list and/or conditions:
Site does not accept friable asbestos

Site Size:
Total area of facility property: 545 acres
Total area site for use: 374 acres
Total area permitted: 160 acres
Operating: 75 acres
Not excavated: 85 acres

Current capacity: 7,500 ☒ tons or ☐ cubic yards per day
Estimated lifetime: 44 years
Estimated days open per year: 260 days
Estimated yearly disposal volume: 195,000 ☒ tons or ☐ cubic yards

(if applicable)
Annual energy production:
Landfill gas recovery projects: N/A megawatts
Waste-to-energy incinerators: N/A megawatts
FACILITY DESCRIPTIONS

Facility Type: Type III Landfill
Facility Name: Liberty Environmental Landfill
County: Jackson
Location: Town: 4S Range: 1W Section(s): 13
Map identifying location included in Attachment Section: Yes
If facility is an incinerator or a transfer facility, list the final disposal site and location for incinerator ash or transfer facility wastes:

Public Private Owner: Liberty Environmentalists
Operating Status Waste Types Received
☑ Open Residential
☐ Closed Commercial
☑ Licensed Industrial
☐ Unlicensed Construction and Demolition
☑ Construction Permit Contaminated Soils
☐ Open, but Closure Special Wastes* 
☐ Pending Other Processing:
*Explanation of special wastes, including a specific list and/or conditions:
Foundry sand, transfer of recycling

Site Size:
Total area of facility property: 432 acres
Total area site for use: 300 acres
Total area permitted: 250 acres
Operating: 25 acres
Not excavated: 30 acres
Current capacity: 500 tons or cubic yards per day
Estimated lifetime: 50 years
Estimated days open per year: 300 days
Estimated yearly disposal volume: 125,000 tons or cubic yards
Annual energy production:
Landfill gas recovery projects: ______ megawatts
Waste-to-energy incinerators: ______ megawatts
FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Facility & Processing Plant
Facility Name: Modern Waste Systems
County: Jackson Location: Town: 4S Range: 1E Section(s): 1
Map identifying location included in Attachment Section: ☑ Yes ☐ No

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

☑ Public ☐ Private Owner: Modern Waste Systems

Operating Status
☑ Open ☐ Closed ☑ Licensed ☐ Unlicensed ☑ Construction Permit ☐ Open, but Closure ☐ Pending

Waste Types Received
☑ Residential ☐ Commercial ☐ Industrial ☐ Construction and Demolition ☐ Contaminated Soils ☐ Special Wastes*
☐ Other Processing: __________________________

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

Site Size:
Total area of facility property: _______ 3 acres
Total area site for use: _______ 3 acres
Total area permitted: _______ 3 acres
Operating: _______ acres
Not excavated: _______ acres

Current capacity: _______ 500 ☑ tons or ☐ cubic yards per day
Estimated lifetime: _______ years
Estimated days open per year: _______ 300 days
Estimated yearly disposal volume: _______ 105,000 ☑ tons or ☐ cubic yards

(if applicable)
Annual energy production:
Landfill gas recovery projects: _______ megawatts
Waste-to-energy incinerators: _______ megawatts

III-13b
FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station and Processing Plant
Facility Name: Stevens Disposal and Recycling Service, Inc.
County: Monroe
Location: Town: 7S Range: 6E Section(s): 00
Map identifying location included in Attachment Section: ☐ Yes ☒ No

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

☐ Public ☒ Private Owner: Stevens Disposal and Recycling Service, Inc.

Operating Status Waste Types Received
☒ Open ☐ Residential
☐ Closed ☒ Commercial
☒ Licensed ☒ Industrial
☐ Unlicensed ☒ Construction and Demolition
☒ Construction Permit ☐ Contaminated Soils
☐ Open, but Closure ☐ Special Wastes*
☐ Pending ☐ Other Processing:

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

Site Size:
Total area of facility property: 56 acres
Total area site for use: 0.51 acres
Total area permitted: acres
Operating: acres
Not excavated: acres

Current capacity: unlimited ☐ tons or ☐ cubic yards per day
Estimated lifetime: years
Estimated days open per year: 312 days
Estimated yearly disposal volume: unknown ☒ tons or ☐ cubic yards

(if applicable)
Annual energy production:
Landfill gas recovery projects: megawatts
Waste-to-energy incinerators: megawatts
FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Facility
Facility Name: Rollin Township Transfer Facility
County: Lenawee Location: Town: 6S Range: 1E Section(s): 29
Map identifying location included in Attachment Section: ☐ Yes ☒ No

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

☒ Public ☐ Private Owner: Rollin Township

Operating Status Waste Types Received
☒ Open ☒ Residential
☐ Closed ☒ Commercial
☐ Licensed ☐ Industrial
☒ Unlicensed ☒ Construction and Demolition
☐ Construction Permit ☐ Contaminated Soils
☐ Open, but Closure ☐ Special Wastes*
☐ Pending ☐ Other Processing:

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

________________________________________________________________________________________

Site Size:
Total area of facility property: 3.0 acres
Total area site for use: 1.4 acres
Total area permitted: 1.4 acres
Operating: ___ acres
Not excavated: ___ acres

Current capacity: 80 ☐ tons or ☒ cubic yards per day
Estimated lifetime: ___ years
Estimated days open per year: 52 days
Estimated yearly disposal volume: 1,040 ☒ tons or ☐ cubic yards

(if applicable)
Annual energy production:
Landfill gas recovery projects: _____ megawatts
Waste-to-energy incinerators: _____ megawatts
FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Facility
Facility Name: Jefferson Township Transfer Facility
County: Hillsdale Location: Town 7S:  Range: 2W Section(s): 8
Map identifying location included in Attachment Section: ☐ Yes ☒ No
If facility is an incinerator or a transfer station, list the final disposal site and location for incinerator ash or transfer station wastes: ____________________________

☒ Public ☐ Private Owner: Jefferson Township

Operating Status Waste Types Received
☒ Open ☒ Residential
☐ Closed ☐ Commercial
☐ Licensed ☐ Industrial
☒ Unlicensed ☒ Construction and Demolition
☐ Construction Permit ☐ Contaminated Soils
☐ Open, but Closure ☐ Special Wastes*
☐ Pending ☐ Other Processing:

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

Site Size:
Total area of facility property: 22 acres
Total area site for use: 8 acres
Total area permitted: acres
Operating: acres
Not excavated: acres

Current capacity: 122 ☐ tons or ☒ cubic yards per day
Estimated lifetime: years
Estimated days open per year: 312 days
Estimated yearly disposal volume: 2,260 ☒ tons or ☐ cubic yards

(if applicable)
Annual energy production:
Landfill gas recovery projects: megawatts
Waste-to-energy incinerators: megawatts

III-14c
FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Facility and Processing Plant

Facility Name: City of Ann Arbor

County: Washtenaw Location: Town: 3S Range: 6E Section(s):

Map identifying location included in Attachment Section: Yes ☑ No

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

☒ Public ☐ Private Owner: City of Ann Arbor

Operating Status Waste Types Received
☒ Open ☐ Residential
☐ Closed ☐ Commercial
☒ Licensed ☐ Industrial
☐ Unlicensed ☐ Construction and Demolition
☒ Construction Permit ☐ Contaminated Soils
☐ Open, but Closure ☐ Special Wastes*
☐ Pending ☑ Other Processing: Recycling

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

__________

Site Size:

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

Current capacity: 300 ☑ tons or ☐ cubic yards per day
Estimated lifetime: _______ years
Estimated days open per year: 312 days
Estimated yearly disposal volume: _______ ☐ tons or ☐ cubic yards

(if applicable)

Annual energy production:

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

III-14d
SELECTED SYSTEM

SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION

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

The Solid Waste Planning Committee determined that the current solid waste management plan’s preferred alternative—*retain the existing system with modifications*—is functioning properly despite the “mothballing” of the Adrian Landfill, with the exception of the loss of revenues generated from tipping fees which funded the County’s solid waste and recycling programming. The existing system can be organized into two main components: (A) solid waste and recycling facilities (i.e., disposal areas) and (B) solid waste and recycling programming.

A. **Solid waste and recycling areas (i.e., disposal sites/facilities)**

Solid waste and recycling areas can be organized into several components: (1) Landfills, (2) collection and transportation, and (3) the processing of recyclable materials.

1. **Landfills**

   The existing system includes: (a) recognition that the Adrian Landfill may resume accepting solid waste at some point in the future, (b) the preference for the expansion of the Adrian Landfill over the siting of a new facility in Lenawee County, and (c) allowing for solid waste to be transported to Landfills outside of Lenawee County.

   a. **“Mothballing” of the Adrian Landfill continues (landfill may reopen)**

      The Adrian Landfill was not accepting solid waste when the Plan was amended, but is still licensed and may begin to accept solid waste as soon as its temporary cap is removed. This situation is known unofficially as “mothballing”. It is anticipated that the Landfill will begin to accept solid waste at some point in the future and that at least some of the solid waste generated in Lenawee County will be deposited in the facility, effectively increasing the landfill capacity available to Lenawee County.

   b. **Do not locate new landfills in Lenawee County**

      Additional landfills are not wanted locally, nor is there a compelling reason to allow them. The “mothballed” Adrian Landfill has approximately 15 years of capacity and will likely reopen at some point in the future. There is also excess landfill capacity statewide which makes
the need for new landfills questionable. If Lenawee County needs additional capacity in the future, it is preferred that the Adrian Landfill be reopened and/or expanded prior to siting a new landfill.

c. **Transfer solid waste to landfills outside of Lenawee County**

The transport of solid waste to landfills outside of Lenawee County will continue to take place via: (1) transfer facilities and (2) direct transport to landfills.

(1) **Transfer facilities**

Publicly and privately owned transfer facilities are an important component of transporting solid waste to landfills outside of Lenawee County.

(2) **Direct transport of solid waste**

The direct transport of solid waste by private haulers is the other component of transporting solid waste to landfills outside of Lenawee County.

2. **Collection and transportation**

The collection and transport of solid waste to landfills and processing plants will continue to happen through the combined efforts of (a) private haulers and (b) transfer facilities.

a. **Private haulers**

Private haulers serve individual customers: (1) directly or (2) through a municipal contract. There will always be opportunities for additional private haulers utilizing either model.

(1) **Individual customers**

Most homeowners, multi-family residential complexes, and businesses contract directly with private haulers for the collection and transport of the trash and recyclables they generate. There were 10 licensed haulers in Lenawee County in 2015:

- **Clean Earth Recycling** is based in Tecumseh
• Modern Waste Systems (Napoleon), Stevens Disposal & Recycling (Petersburg) and Countryside Disposal (Ottawa Lake) are based nearby in adjacent counties

• Hauling Anything, Inc. (HAI) and ARS Refuse Service are based in Northwest Ohio

• Waste Management, Knight Transfer Services, Republic Services, and Omnisource have multiple bases of operation in the region

(2) Municipal contracts

The collection and transport of trash and recyclables in the municipalities of Adrian, Blissfield, Britton, Clinton, Hudson, Morenci, and Tecumseh is a municipal service (i.e., 40% of the 2010 County population). Each of the cities and villages contract this service out to one of the private haulers. However, multi-family complexes and businesses that generate large quantities of solid waste still contract directly with a private hauler.

b. Solid waste transfer facilities

An alternative to contracting with a private hauler is for households and businesses to transport their waste to transfer facilities, where they are collected and transported to a landfill or a processing plant. The facilities can be publicly or privately operated. Rollin Township owns and operates a type B transfer facility within Lenawee County, contracting with a private hauler to transport the trash and recyclables to their final destinations. Jefferson Township, in nearby Hillsdale County, owns and operates a similar facility. Modern Waste Systems and Stevens Disposal & Recycling operate type A transfer facilities, utilized by their own haulers as well as households and businesses; Modern Waste can also accept waste from other haulers. There are always opportunities for the establishment of other public and private transfer facilities.

3. Processing of recyclable materials

The processing of recyclable materials takes place in/at (a) processing plants and/or (b) recycling centers and services, including special events.
a. **Processing plants**

The type A transfer facilities operated by Modern Waste Systems and Stevens Disposal & Recycling also function as processing plants. ReCommunity Recycling based in nearby Washtenaw County, is a large processing plant that ultimately receives the recyclables collected by those plants, local transfer facilities, and many local recycling centers and services, including special events. The Processing Plant serving Lenawee County is owned publicly and operated privately and there are always opportunities for the establishment of additional facilities.

b. **Recycling centers and services, including special events**

Various local governments, non-profit organizations, and for-profit businesses provide (1) recycling centers and services, including (2) special events, to their residents and customers.

1. **Recycling centers and services**

   The Lenawee County Recycling Center (DOS) accepts a variety of recyclable materials as do recycling centers operated by the Charter Townships of Adrian and Raisin. Many of the processing plants, transfer facilities, and haulers listed above incorporate recycling centers and services into their operations. Batteries, mail and mail supplies, electronics, compact fluorescent bulbs, prescription drugs, and plastic bags are collected by various businesses for the convenience of their customers. Local nonprofits collect clothing, various household items (including electronics), and building supplies. Various police departments and pharmacies collect prescription drugs. For-profit businesses collect scrap metal. There are always opportunities for the establishment of additional recycling centers and services.

2. **Special events**

   Many local governments provide special events (i.e., a type of recycling service) which allow their residents to dispose of a variety of leftover hazardous household products, yard waste, and other items for disposal and/or recycling. The special events are organized by municipal staff, volunteers, and/or haulers who then recycle or properly dispose of the items. Some special events are also provided and organized by the private sector. There are always opportunities for the establishment of additional Special Events.
B. **Solid waste and recycling programming**

Solid waste and recycling programming can be organized into several components: (1) methods to increase proper disposal and recycling, (2) sources of program funding, and (3) needed programs.

1. **Method(s) to increase proper disposal and recycling**

Methods to increase proper disposal and recycling can be organized into several components: (a) advocacy, (b) municipal provision, (c) incentives, and (d) penalties.

   a. **Advocated by municipalities, Lenawee County, and/or the private sector**

   Lenawee County advocates for the proper disposal of solid waste and recycling in a variety of ways: the media (e.g., newspapers, social media, and radio), the Lenawee County Recycling Center (DOS), and the Lenawee County Fair. Some cities, villages, and townships advocate using similar methods. The private sector also promotes its services in a variety of ways.

   b. **May be municipally provided**

   There is no call for Lenawee County to mandate a particular disposal and/or recycling method. However, local governments are free to institute such programs within their own jurisdictions (e.g., those cities and villages who contract with a private hauler for trash and recycling collection services).

   c. **Incentives for the proper disposal of solid waste and recycling**

   The private and public sectors provide incentives for proper disposal and recycling by making trash and recycling collection available. Recycling and the proper disposal of solid waste can be further incentivized by providing special events and recycling services. Private haulers can also incentivize recycling by passing along any cost savings derived from recycling programs to its customers.

   d. **Penalties for illegal disposal of solid waste (e.g., dumping, etc.)**

   County and local governments can encourage the proper disposal of solid waste by establishing substantial fines and other penalties for those caught disposing of solid waste improperly. A process for prosecuting illegal dumping through civil action or criminal prosecution is identified in the
Lenawee County Solid Waste Ordinance. Unfortunately, people continue to dump illegally (e.g., Academy Road, in the vicinity of Wade Hwy. and the River Raisin). Private businesses can also encourage proper disposal by charging extra for items they collect that cannot be disposed of easily.

2. Sources of program funding

Sources of program funding can be organized into several components: (a) government general funds, (b) the private sector, (c) grants, and (d) a dedicated millage.

a. Funded by Lenawee County and/or municipal budgets

Most governmental solid waste disposal and recycling programs are funded through their general funds. This arrangement works well when the economy is healthy, but may cause issues when the economy is poor. The private sector could supplement those programs by sponsoring recycling centers and services, including special events.

b. Self-funded by the private sector

The private sector normally self-funds its programs. The private sector could also supplement County and municipal programs by sponsoring recycling centers and services, including special events. A substantial fee for illegal dumping could also help to fund County programs.

c. Explore grant funding and state/county funding opportunities

The public and private sectors can also explore various grants and state-funded initiatives. However, most of those grants are for capital projects rather than operating funds. The availability of state funding is also uncertain in future years.

Lenawee County provided small grants to municipal governments for recycling programs in the past, utilizing revenues collected from Adrian Landfill tipping fees. It would be wonderful if this incentive program could be reinstituted for new programs and capital projects. However, a sustainable funding source is needed in order to make this service viable.

d. Countywide millage (passed by referendum)

Lenawee County could also explore the possibility of creating a dedicated funding source via a low countywide millage, provided that the general public has the opportunity to vote on the proposal.
3. **Sustaining County programs**

Lenawee County provides several services which collect needed data regarding solid waste and recycling, educating the public about recycling, and the provision of a recycling center and various special events. There is a potential for collaboration with the private sector in the provision of these services.

a. **Recycling education**

County officials promote recycling by collecting and displaying examples of recycled products and creating and disseminating brochures and school materials. Those resources are made available to the general public during Fair Week, at the Lenawee County Recycling Center (DOS), and to teachers and individuals (upon request). The DOS and special events are promoted via social media postings, local newspapers, and radio messages. Partnerships with local for-profit, non-profit, and governmental institutions for the printing and dissemination of educational materials could increase the availability of those materials. There are always opportunities for making educational materials available.

b. **Data collection**

Lenawee County licenses the haulers operating within its borders and collects data on trash collection and recycling. That data is more accurate than the data collected by the State given that some of the solid waste generated in Lenawee County is disposed of in Ohio. County officials also receive reports from ReCommunity Recycling regarding the tonnage received from the Lenawee County Recycling Center (DOS) and collect data regarding the amount of materials collected during special events.

c. **Recycling center and services, including special events**

The Lenawee County Recycling Center (DOS) is the County’s most prominent recycling program. The County also hosts household environmental collection events twice a year. Finally, the County operates an information booth during the Lenawee County Fair. Sponsorships from private sector haulers, transfer facilities, processing plants, and landfills could help to fund the DOS and special events. There are always opportunities for the establishment of additional recycling centers and services, including special events.
## SELECTED SYSTEM

### TABLE III-1

#### RECYCLING:

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Service Area (a)</th>
<th>Public or Private</th>
<th>Collection Point (c)</th>
<th>Collection Frequency (d)</th>
<th>Materials Collected (e)</th>
<th>Program Management Responsibilities (b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Recycling Program</td>
<td>Lenawee County</td>
<td>Public</td>
<td>Drop-off</td>
<td>w</td>
<td>A,B,C,D,E,F</td>
<td>4</td>
</tr>
<tr>
<td>Village of Blissfield</td>
<td>Village of Blissfield</td>
<td></td>
<td>Curbside</td>
<td>b</td>
<td>B,C,D</td>
<td>5</td>
</tr>
<tr>
<td>City of Hudson</td>
<td>City of Hudson</td>
<td>Public</td>
<td>Curbside</td>
<td>w</td>
<td>A,B,C,D,E,F</td>
<td>5</td>
</tr>
<tr>
<td>City of Morenci</td>
<td>City of Morenci</td>
<td>Public</td>
<td>Curbside</td>
<td>w</td>
<td>A,B,C,D,E,F</td>
<td>5</td>
</tr>
<tr>
<td>Village of Onsted</td>
<td>Village of Onsted</td>
<td>Public</td>
<td>Curbside</td>
<td>w</td>
<td>A,B,C,D,E,F</td>
<td>5</td>
</tr>
<tr>
<td>Rollin Twp. Transfer Station</td>
<td>Rollin Township</td>
<td>Public</td>
<td>Drop-off</td>
<td>w</td>
<td>A,B,C,D,E,F</td>
<td>5</td>
</tr>
<tr>
<td>City of Tecumseh</td>
<td>City of Tecumseh</td>
<td>Public</td>
<td>Curbside</td>
<td>b</td>
<td>A,B,C,D,E,F, Trees</td>
<td>5</td>
</tr>
<tr>
<td>OmniSource</td>
<td>Available to all customers</td>
<td>Private</td>
<td>On-site</td>
<td>d</td>
<td>F</td>
<td>5</td>
</tr>
<tr>
<td>City of Adrian</td>
<td>City of Adrian</td>
<td>Public</td>
<td>Curbside</td>
<td>b</td>
<td>A,B,C,D,E,F, Trees</td>
<td>5</td>
</tr>
<tr>
<td>Village of Britton</td>
<td>Village of Britton</td>
<td>Public</td>
<td>Curbside</td>
<td>w</td>
<td>A,B,C,D,E,F</td>
<td>5</td>
</tr>
<tr>
<td>Village of Cement City</td>
<td>Village of Cement City</td>
<td>Public</td>
<td>Curbside</td>
<td>w</td>
<td>A,B,C,D,E,F</td>
<td>5</td>
</tr>
<tr>
<td>Tire Recycling</td>
<td>Lenawee County</td>
<td>Private</td>
<td>Drop-off</td>
<td>Fa, Sp</td>
<td>K</td>
<td>2</td>
</tr>
<tr>
<td>Adrian Township</td>
<td>Adrian Township</td>
<td>Private</td>
<td>Drop-off</td>
<td>D</td>
<td>A,B,C,D,E,F</td>
<td>5</td>
</tr>
<tr>
<td>Raisin Township</td>
<td>Raisin Township</td>
<td>Private</td>
<td>Drop-off</td>
<td>d</td>
<td>A,B,C,D,E,F</td>
<td>5</td>
</tr>
</tbody>
</table>

**(a)** 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.

**(b)** Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 27); 5 = Private Owner/Operator; 6 = Other (identified on page 27)

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

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

**(e)** Identified by the materials collected by listing of the letter located by that material type. A = Plastics; B = Newspaper; C = Corrugated Containers; D = Other Paper; E = Glass; F = Metals; P = Pallets; J = Construction/Demolition; K = Tires; L1, L2 etc. = as identified on page 29.
## SELECTED SYSTEM

### COMPOSTING:

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Service Area (a)</th>
<th>Public or Private</th>
<th>Collection Point (c)</th>
<th>Collection Frequency (d)</th>
<th>Materials Collected (e)</th>
<th>Program Management Responsibilities (b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Adrian</td>
<td>City of Adrian</td>
<td>Public</td>
<td>Drop-off</td>
<td>w</td>
<td>G,L,F,W</td>
<td>3 3 3</td>
</tr>
<tr>
<td>City of Hudson</td>
<td>City of Hudson</td>
<td>Public</td>
<td>Curbside/ Drop-off</td>
<td></td>
<td>G,L,F,W</td>
<td>3 3 3</td>
</tr>
<tr>
<td>City of Tecumseh</td>
<td>City of Tecumseh</td>
<td>Public</td>
<td>Curbside</td>
<td></td>
<td>G,L,F,W</td>
<td>3 3 3</td>
</tr>
<tr>
<td>Village of Clinton</td>
<td>Village of Clinton</td>
<td>Public</td>
<td>Drop-off</td>
<td></td>
<td>G,L,F,W</td>
<td>3 3 3</td>
</tr>
</tbody>
</table>

(a) 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.

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(e) Identified by the materials collected by listing of the letter located by that material type. G = Grass Clippings; L = Leaves; F = Food; W = Wood; P = Paper; S = Municipal Sewage Sludge; A = Animal Waste/Bedding; M = Municipal Solid Waste; L1, L2 etc = as identified on page 29.
### SELECTED SYSTEM

#### TABLE III-3

**SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS:**
Since improper disposal of non-regulated hazardous materials has the potential to create risks to the environment and human health, the following programs have been implemented to remove these materials from the county’s solid waste stream.

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Service Area (a)</th>
<th>Public or Private</th>
<th>Collection Point (c)</th>
<th>Collection Frequency (d)</th>
<th>Materials Collected (e)</th>
<th>Program Management Responsibilities (b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSC Farm Home</td>
<td>Available to all customers</td>
<td>Private</td>
<td>On-site</td>
<td>d</td>
<td>U</td>
<td>5 5 5</td>
</tr>
<tr>
<td>Auto Store</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lenawee Tire</td>
<td>Available to all customers</td>
<td>Private</td>
<td>On-site</td>
<td>d</td>
<td>U</td>
<td>5 5 5</td>
</tr>
<tr>
<td>Battery Wholesale</td>
<td>Available to all customers</td>
<td>Private</td>
<td>On-site</td>
<td>d</td>
<td>B1, B2</td>
<td>5 5 5</td>
</tr>
<tr>
<td>Lowe’s</td>
<td>Available to all customers</td>
<td>Private</td>
<td>On-site</td>
<td>d</td>
<td>B2, OT, LED lights</td>
<td>5 5 5</td>
</tr>
<tr>
<td>TSC Farm/Home</td>
<td>Available to all customers</td>
<td>Private</td>
<td>On-site</td>
<td>d</td>
<td>U</td>
<td>5 5 5</td>
</tr>
<tr>
<td>Lenawee Tire</td>
<td>Available to all customers</td>
<td>Private</td>
<td>On-site</td>
<td>d</td>
<td>U</td>
<td>5 5 5</td>
</tr>
<tr>
<td>Auto Zone</td>
<td>Available to all customers</td>
<td>Private</td>
<td>On-site</td>
<td>d</td>
<td>B1, U</td>
<td>5 5 5</td>
</tr>
<tr>
<td>O’Reilly Auto</td>
<td>Available to all customers</td>
<td>Private</td>
<td>On-site</td>
<td>d</td>
<td>B1, U</td>
<td>5 5 5</td>
</tr>
<tr>
<td>Advance Auto</td>
<td>Available to all customers</td>
<td>Private</td>
<td>On-site</td>
<td>d</td>
<td>B1, U</td>
<td>5 5 5</td>
</tr>
<tr>
<td>Discount Tires</td>
<td>Available to all customers</td>
<td>Private</td>
<td>On-site</td>
<td>d</td>
<td>OT Tires</td>
<td>5 5 5</td>
</tr>
</tbody>
</table>

(a) 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.

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

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

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

### TABLE III-4

#### PROPOSED RECYCLING:

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Service Area (a)</th>
<th>Public or Private</th>
<th>Collection Point (c)</th>
<th>Collection Frequency (d)</th>
<th>Materials Collected (e)</th>
<th>Program Management Responsibilities (b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Development</td>
</tr>
</tbody>
</table>

(a) 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.

(b) Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 27); 5 = Private Owner/Operator; 6 = Other (identified on page 27)

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

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

(e) Identified by the materials collected by listing of the letter located by that material type. A = Plastics; B = Newspaper; C = Corrugated Containers; D = Other Paper; E = Glass; F = Metals; P = Pallets; J = Construction/Demolition; K = Tires; L1, L2 etc. = as identified on page 29.
### PROPOSED COMPOSTING:

<table>
<thead>
<tr>
<th>Program Name (if known)</th>
<th>Service Area</th>
<th>Public or Private</th>
<th>Collection Point</th>
<th>Collection Frequency</th>
<th>Materials Collected</th>
<th>Program Management Responsibilities</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Development</td>
</tr>
</tbody>
</table>

None

(a) 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.

(b) Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 27); 5 = Private Owner/Operator; 6 = Other (identified on page 27)

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## TABLE III-6

**PROPOSED SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS:**

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Service Area (a)</th>
<th>Public or Private Collection Point (c)</th>
<th>Collection Frequency (d)</th>
<th>Materials Collected (e)</th>
<th>Program Management Responsibilities (b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Development Operation Evaluation</td>
</tr>
</tbody>
</table>

### Notes:

- **(a)** 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.

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CAPACITY CERTIFICATIONS

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

☑  This county has more than ten years capacity identified in this plan and an annual certification process is not included in this plan.

☐  Ten years of disposal capacity has not been identified in this plan. The county will annually submit capacity certifications to the DEQ by June 30 of each year on the form provided by the DEQ. The county’s process for determination of annual capacity and submission of the county’s capacity certification is as follows:
COORDINATION EFFORTS:

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

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

Ultimate responsibility for the Lenawee County solid waste management program rests with the Lenawee County Board of Commissioners (BOC). Pursuant to the previous solid waste management plan, the BOC appointed the Lenawee County Solid Waste Coordinating Committee (LCSWCC) which is responsible for plan implementation. The Lenawee County Planning Commission shall make recommendation to the BOC on activities of the LCSWCC.

The LCSWCC shall be responsible for the following:

- Recycling/solid waste education
- Promotion of the recycling and composting plans contained within this solid waste management plan
- Assisting the BOC in ensuring that adequate waste disposal areas are provided in a timely manner to meet the county’s waste disposal needs
- Support local units of government with recycling and composting programs. Continue to provide financial assistance for this purpose if funds become available.

In September, 1992 Lenawee County and the Adrian landfill entered into an agreement to fund Lenawee County’s waste management and recycling programs. At present, the landfill is to pay the County $0.90 per ton. However, no funding is currently being collected due to the “mothballing” of the Adrian Landfill.
EVALUATION SUMMARY OF THE SELECTED SYSTEM:

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

Different arrangements for the management of waste disposal, collection and material recovery have been evaluated. What follows is a summary of the evaluation of the preferred alternative “Retain the Current System with Modifications”.

Waste Disposal

Lenawee County government does not participate directly in the management of solid waste disposal option. Those arrangements are left to the various trash haulers servicing Lenawee County. For example, although Rollin Township operates a public type B transfer facility and the Cities of Adrian, Hudson, Morenci, and Tecumseh and the Villages of Blissfield, Britton, and Clinton provide curbside trash pickup, they are all serviced by private haulers. The advantages of relying on the private sector are that each hauler is free to seek the best disposal price for their customers and to do that in an efficient and effective manner. The disadvantage of relying on the private sector is that haulers may choose to not pass those savings onto their customers.

Collection

The effective and efficient movement of waste from the generator to the disposal site is imperative if the public health and welfare is to be protected. The key question in considering alternatives for proper waste disposal is not “how will waste be collected” but rather “who will be responsible for collection.”

The current collection system is dependent on the private sector. The residential collection systems used most frequently outside of most cities and villages are personal contracts.
with private haulers and personal delivery to either a landfill or a transfer station.

Overall, this system has been effective, resulting in the collection of most of the County’s waste in a way which causes few environmental or public health concerns. In the past, there have been incidents of illegal dumping, but these do not appear to have resulted from a lack of viable collection alternatives.

However, there are some situations in which the potential exists for developing more cost-effective or energy-efficient disposal alternatives. Potential problems with dependence on private sector collection are as follows:

- There may be uniform practices among haulers which may reduce competition and keep prices high.
- Competition can result in business failures and service interruptions.
- In areas with higher density residential development, overlapping service routes waste fuel, add to road deterioration, and increased traffic especially in residential areas.

The system recommended is one where market forces and local preferences determine which of the alternatives for management of waste collection is appropriate for each local unit of government. The unique demographic and land use development characteristics of each local unit of government in the County combined with its location relative to County disposal facilities and local preferences for level-of-service will determine which alternative collection systems are appropriate.

Material Recovery

Lenawee County has taken the lead in educating the public about recycling and further promoting the practice. The County also provides a recycling drop-off site. The County funds an employee of the County Administrator’s Office to administer those programs/services. The loss of tipping fees due to the “mothballing” of the Adrian Landfill jeopardizes those programs/services. Funding will need to be appropriated from the County’s general fund or some other source.

Trash haulers have also taken the responsibility for providing recycling opportunities as part of the municipal waste stream. Many haulers provide single-stream recycling to their customers. The benefit to customers is the potential to use a smaller trash container with a corresponding decrease in price. The benefit to the haulers is the potential sale of those recyclables as commodities.
ADVANTAGES AND DISADVANTAGES OF THE SELECTED SYSTEM:

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

ADVANTAGES:

1. Lenawee County is familiar with the existing system and accepts it. The system works well.
2. Solid waste services are provided at a reasonable cost to consumers.
3. Retaining the current system will not require additional public infrastructure.
4. There are abundant opportunities for recycling in the County. Several drop-off sites are available.
5. Education and widespread opportunities to recycle will encourage future generations to recycle.

DISADVANTAGES:

1. There is a lack of finances to support recycling.
2. The market for recyclables is unpredictable.
3. The inconvenience of recycling is not offset by financial incentives to recycle.
4. The “mothballing” of the Adrian Landfill may make the disposal of solid waste less convenient for individuals and haulers.
5. The lack of effort among a minority of businesses and residents to participate in recycling.
ATTACHMENTS

Definitions

The following definitions are needed in order to ensure that all stakeholders know the meaning of the terms utilized throughout the Lenawee County Solid Waste Management Plan. The sources for most of the definitions are Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act (PA 451 of 1994), as amended, and the associated rules promulgated by the Office of Waste Management, Michigan Department of Environmental Quality (MDEQ).

"Disposal area" means 1 or more of the following, as licensed by the Department of Environmental Quality:

- Landfill (i.e., municipal solid waste, industrial waste, construction and demolition waste, and municipal incinerator ash landfills)
- Transfer facility
- Processing plant
- Incinerator (none identified in the Preferred Alternative)
- Other handling/disposal areas (including waste piles but excluding waste diversion centers)

(MCL 324.11503 (5), R 299.4102)

"Landfill" means a disposal area consisting of 1 or more units and active work areas licensed/classified as follows:

- “Type II Landfill” (i.e., municipal solid waste landfill) means a landfill which receives household waste or municipal solid waste incinerator ash and which may also receive any of the following types of solid waste:
  - Construction and demolition waste
  - Sewage sludge
  - Commercial waste
  - Nonhazardous sludge
  - Hazardous waste from conditionally exempt small quantity generators
  - Industrial waste

Such a landfill may be publicly or privately owned.

- “Type III Landfill” means any landfill not defined as a type II landfill (i.e., municipal solid waste landfill) or hazardous waste landfill, including the following:
  - Construction and demolition waste landfills
Industrial waste landfills
Landfills which accept waste other than household waste, municipal solid waste incinerator ash, or hazardous waste from conditionally exempt small quantity generators

(MCL 324.11504 (4); R 299.4105 (a); and R 299.4104 (d)

"Solid Waste Transfer Facility" means a parcel(s) of land, building(s), and/or container(s) licensed for use in the re-handling or storage of solid waste—incidental to its transportation—but not located at the sites of generation or ultimate disposal. Based on design and the type of refuse received, solid waste transfer facilities are classified as follows:

- “Type A Transfer Facility” means a facility designed and operated to receive solid waste primarily from mechanically unloaded vehicles
- “Type B Transfer Facility” means a facility designed and operated to receive domestic and commercial solid waste from vehicles unloaded by hand

(MCL 324.11506 (5) and R 299.4501 (3)

"Hauler" means a person who owns or operates a container—which may be an integral part of a truck or other piece of equipment—used for the transportation of solid waste.

MCL 324.11506 (2) and MCL 324.11506 (4)

"Recycling Center and Service" means a drop-off site which accepts a variety of recyclable materials and/or particular types of solid waste which need proper disposal. These sites can be operated by for-profit, non-profit, or governmental providers and are often included in the services provided by Transfer Stations and Haulers.

"Solid Waste Processing Plant" means a parcel(s) of land, building(s), and/or container(s) licensed for the processing of solid waste, the separation of material for salvage or disposal, or both but does not include plants associated with ferrous or nonferrous scrap metal or slag or slag products.

(MCL 324.11506 (3)

"Special Event" means an event during which a variety of recyclable materials and/or particular types of solid waste which need proper disposal are accepted for a certain period of time. These events are provided by for-profit, non-profit, or governmental institutions.