

Wayne County Solid Waste Management Plan 2000 Update



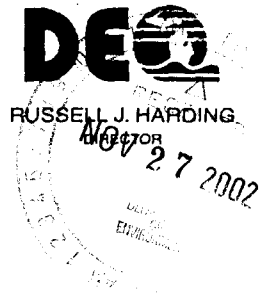
As approved by the Michigan Department of Environmental Quality
November 2002

Edward H. McNamara
County Executive



JOHN ENGLER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



November 7, 2002

Mr. Ricardo A. Solomon, Chairperson
Wayne County Board of Commissioners
600 Randolph
Detroit, Michigan 48226

Dear Mr. Solomon:

The Department of Environmental Quality (DEQ) received the locally-approved update to the Wayne County Solid Waste Management Plan (Plan) on March 8, 2002. The Plan is approved with the following agreed upon modifications as outlined in the July 8, 2002 letter to Mr. Robert N. Ratz, Director, Land Resource Management Division, Wayne County Department of Environment (WCDE), from Ms. Lynn Dumroese, DEQ, Waste and Hazardous Materials Division (WHMD), and as confirmed in an August 8, 2002 letter from Mr. James Murray, Director, WCDE, and Mr. Michael Brinker, Chairperson, Wayne County Solid Waste Planning Committee.

On Page A 26, the Facility Description for New Center Recycling indicates this facility receives construction and demolition waste. The DEQ is aware that the Host Community Agreement between the city of Detroit and New Center Recycling states this facility is prohibited from storage or processing of construction and demolition waste. By Mr. Murray and Mr. Brinker's letter, Wayne County's intent was to have the facility description information negotiated in the Host Community Agreement take precedence over the facility description information in the Facility Description Sheets. For clarification purposes, the following language shall be added to Pages 21 and A 2: "If the facility description information included on the Facility Description Sheets conflicts with the Host Community Agreements, the facility description information in the Host Community Agreements supersedes information on the Facility Description Sheets."

On Page A 32, a clarification is needed in regard to the total area permitted found on the Facility Description for the S & J Transfer Station and Processing Facility (Facility). This clarification does not require a modification to the Plan; however, it is needed because it is not clear what the term "pending" means. This site has not received an Operating License; however, Wayne County's intent was to include the Facility in the Plan and authorize seven acres for the total area of the Facility property. Therefore, the following sentence should be added to the Facility Description Sheet for this Facility: "Seven acres is automatically consistent with the Plan for the Facility and does not need to be sited according to the siting mechanism."

On Page A 44, the Plan lists facilities that will be removed from the Plan. The DEQ's records indicate the K & K Rail Siding Transfer Station (Transfer Station) had received an Operating License in 1994; however, this Transfer Station has not renewed their license since then. The courts ruled in the case of Michigan Waste Systems – Ottawa County versus Department of Natural Resources, that an existing disposal area cannot be excluded from a County Solid Waste Management Plan and as defined in Rule 102 (p) of the administrative rules promulgated pursuant to Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, an "existing disposal area" means, in part, any of the following: (i) A disposal area that has been issued a construction permit under the act or (ii) A disposal area that has engineering plans approved by the Director before January 11, 1979. It is clear that the Transfer Station qualifies as an existing disposal area and, therefore, cannot be arbitrarily removed from the Plan. Mr. Paul Russo, who is the last known contact person for the Transfer Station, indicated in a letter dated September 3, 2002, that this Transfer Station has stopped operations and the current site will not be used as a transfer station in the future. Based on the information in Mr. Russo's letter, it does not appear that there is any objection to the Transfer Station being removed from the Plan. Therefore, the DEQ has determined that the Transfer Station shall be removed from the Plan. The DEQ records do not indicate the other facilities listed on Page A 44 are existing disposal areas; however, by Ms. Dumroese's letter, the DEQ did request Wayne County to submit any documentation that was available from these facilities. Mr. Murray and Mr. Brinker provided additional documentation confirming that the last known contact person for the other facilities listed on Page A 44 was notified; therefore, in order to alleviate any future discrepancy, this documentation shall be added to the Plan.

Another clarification is needed regarding the Wayne County Solid Waste Ordinance (Ordinance) found in Appendix G. The Ordinance references technical standards that the DEQ evaluates during their review of a construction permit and allows variances for some of these technical items. Mr. Murray and Mr. Brinker's letter clarifies that the Ordinance found in Appendix G is enforceable per Michigan Compiled Law 324.11538(8) with the Plan so long as the following paragraph is added to Page 61:

Technical standards found within the Ordinance are enforceable if standards are equivalent to the technical standards in Part 115 and the Part 115 administrative rules. No standard within the Ordinance is enforceable if less restrictive than Part 115 or the Part 115 administrative rules. Wayne County's Ordinance was developed to provide reporting and operational standards for solid waste facilities located within Wayne County and to reference State standards for technical criteria. Wayne County understands the DEQ delegated authority under Subtitle D requires consistent technical standards for landfills. Decisions made by the DEQ regarding the enforceability of technical standards shall be final.

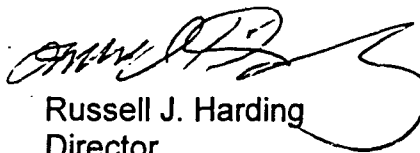
With these modifications, Wayne County's updated Plan is hereby approved, and Wayne County now assumes responsibility for the enforcement and implementation of this Plan. Please ensure that a copy of this letter is included with copies of the approved Plan distributed by Wayne County.

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 that Wayne 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 Wayne County's 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. 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 Wayne County. If you have any questions, please contact Ms. Rhonda Oyer Zimmerman, Chief, Solid Waste Management Unit, WHMD, at 517-373-4750, or you may contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Russell J. Harding", with a large, stylized flourish extending from the end of the signature.

Russell J. Harding
Director
517-373-7917

cc: Senator Loren N. Bennett
Senator Christopher D. Dingell
Senator George Zaven Hart
Senator Burton Leland
Senator Thaddeus G. McCotter
Senator Raymond M. Murphy
Senator Martha G. Scott
Senator Jackie Vaughn III
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Representative Keith B. Stallworth
Representative John C. Stewart
Representative Samuel Buzz Thomas III
Representative Laura M. Toy
Representative Mary D. Waters
Representative Gary Woronchak
Mr. James Murray, Director, WCDE
Mr. Michael Brinker, Chairperson, Wayne County Solid Waste Planning Committee
Mr. Robert N. Ratz, WCDE
Ms. Jennifer Shoha, Director, Governor's Southeastern Michigan Office
Mr. Arthur R. Nash Jr., Deputy Director, DEQ
Ms. Lynn Y. Buhl, Director of the Southeast Offices, DEQ
Mr. Thomas M. Hickson, Legislative Liaison, DEQ
Mr. George Bruchmann, DEQ
Mr. Lonnie Lee, DEQ
Dr. Benedict Okwumabua, DEQ
Ms. Rhonda Oyer Zimmerman, DEQ
Ms. Lynn Dumroese, DEQ
Wayne County File

PLAN UPDATE COVER PAGE

The Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), Part 115, Solid Waste Management, and its Administrative Rules, requires that each County have a Solid Waste Management Plan Update (Plan) approved by the Michigan Department of Environmental Quality (DEQ). Section 11539a requires the DEQ to prepare and make available, a standardized format for the preparation of these Plan updates. This document has been written and put together in that format.

DATE SUBMITTED TO DEQ: February 27, 2002

This Plan Update covers all Act 451, Part 115 solid wastes which are generated within Wayne County as well as the solid waste generated within the entire city of Northville. Northville is located within both Wayne and Oakland Counties but has elected to be included in the Wayne County Plan as allowed under section 11536 of Part 115 of the NREPA. Resolutions from both involved County Boards of Commissioners approving the inclusion are included in Appendix N.

Municipality
Northville

Original Planning County
Oakland and Wayne

New Planning County
Wayne

DESIGNATED PLANNING AGENCY PREPARING THIS PLAN UPDATE:
Office of the Wayne County Executive through the Department of Environment

CONTACT PERSON: Mr. James Murray, Director
Department of Environment

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CENTRAL REPOSITORY LOCATION: Wayne County D.O.E.
Land Resource Management Division
3600 Commerce Court, Bldg. E
Wayne, MI 48184
(734) 326-3936

WAYNE COUNTY SOLID WASTE MANAGEMENT PLAN UPDATE

The Wayne County Solid Waste Management Plan was developed and is consistent with the requirements of Michigan's Natural Resources and Environmental Protection Act, P.A. 451, Part 115 and with the MDEQ's required Plan Format. The Plan was developed by the Wayne County Solid Waste Implementation Committee, which was appointed by:

WAYNE COUNTY EXECUTIVE
Edward H. McNamara

With the approval of the:

WAYNE COUNTY BOARD OF COMMISSIONERS
Ricardo A. Solomon, Chair (7th)

Christopher Cavanagh (1st)
Bernard J. Parker (2nd)
Robert B. Blackwell (3rd)
Jewel C. Ware (4th)
Ilona Varga (5th)
George Cushingberry (6th)
Willie Hall (8th)

Philip Cavanagh (9th)
Lyn Banks (10th)
John Sullivan (11th)
Kay Beard (12th)
Susan L Hubbard (13th)
Joseph Palamara (14th)
Edward A. Boike (15th)

The Wayne County SOLID WASTE IMPLEMENTATION COMMITTEE members are:

Edward A. Boike
Michael Brinker, Chair
Ron Caramagno
Helen Foster, Vice-Chair
John Hamilton
Christopher Jackson
Kevin Kelley
Laurie Kendall
James Logsdon
William Matakas
Trenessa Mitchell
Frances Schonenberg
Ted Starbuck
Donald Windeler

County Government
City Government
Solid Waste Management Industry
Environmental Interest Group
General Public
General Public
Township Government
Solid Waste Management Industry
Solid Waste Management Industry
General Public
Solid Waste Management Industry
Environmental Interest Group
Regional Solid Waste Planning
Industrial Waste Generator

The Committee is staffed by the Wayne County Department of Environment (D.O.E.), the designated planning agency for Wayne County:

James E. Murray, Director
Vyto Kaunelis, Chief Deputy Director
Josephine Powell, Deputy Director

With the assistance of the D.O.E.'s Land Resource Management Division:

Robert N. Ratz, Director
Michael F. Droze, Deputy Director
Mary F. Vangieson, Resource Recovery Coordinator
Cindra M. James, Resource Recovery Specialist

And of Wayne County Corporation Counsel staff: Hilda Gurley-Highgate

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GLOSSARY OF TERMS

I

Executive Summary

County Overview

Wayne County is the most populated county in Michigan with over two million residents and a commercial and industrial population of almost one million. It is easy to see how Wayne County generates over ten million cubic yards of waste per year. This volume of waste could pose a major problem for most counties to handle without significant exporting. However, Wayne County has been able to handle its waste internally operating under its Solid Waste Management Plan. Wayne County's siting process, which provides significant local community control through a Host Community Agreement, has been very successful in siting disposal facilities. In fact, Wayne County's process has been the most successful siting process in Michigan. As a result, Wayne County currently has capacity to handle all of its solid waste for more than twenty years based on existing waste flows and facility capacities.

With the disposal capacity currently available in Wayne County, some may question the need to emphasize recycling and suggest we continue to utilize landfills without concern for airspace. In reality, landfill capacity should be a concern particularly when you look at the amount of land available in Wayne County for future development. According to SEMCOG, of the over 390,000 acres of land in Wayne County, 138,000 acres were undeveloped in 1995. Some of the undeveloped land contains wetlands or other physical restrictions. This constitutes approximately 35% of the total area of the County. An estimated 20,000 acres have been developed within the last 5 years in Wayne County. If this trend continues there will be very little undeveloped land suitable for landfill development when the current airspace is consumed. Therefore, waste reduction, recycling, and incineration must remain a high priority throughout Wayne County.

Thirty-four (34) of Wayne County's forty-three (43) communities participate in curbside collection programs for recyclables and forty-one (41) communities participate in yard waste collection programs. This participation is a result of the original Solid Waste Management Plan's directive that communities recycle, incinerate, or become the host to a landfill. Wayne County understands that even with current excess disposal capacity, conditions may change and therefore recycling must remain a major component of the waste hierarchy in the County. With the active recycling and yard waste collection programs currently in place, the communities of the County are diverting over fifteen percent (15%) of the municipal solid waste stream from landfills. When including the municipal waste that is incinerated in Wayne County, the diversion rates exceed fifty-seven percent (57%).

Selected Alternative

The selected system for handling Wayne County's waste is an existing system that has been functioning successfully for over 15 years. This system incorporates all aspects of waste handling from waste reduction, recycling, composting and incineration, to landfilling and is managed by both public and private enterprises.

The existing network of disposal facilities within Wayne County consists of two (2) waste to energy incinerators, four (4) municipal waste landfills, six (6) industrial waste landfills, and six (6) operating waste processing facilities. The hauling is being handled successfully through

private and municipal contractors, with a network of thirteen (13) operating Type A transfer stations and fourteen (14) operating Type B transfer stations.

Recycling is an important part of waste management practices within Wayne County. Continued curbside recycling along with increased recycling education will be the key components that will help us achieve our recycling goal of twenty-five percent (25%) of the total waste stream collected.

Yard waste collection is currently diverting nine percent (9%) of the municipal waste stream from landfills; however, most of this material is not being handled in Wayne County. As such, Wayne County will promote grass-cycling and backyard (small scale) composting in an effort to reduce our dependency on neighboring community composting facilities.

Incineration will continue to play a large role in waste reduction efforts within the County. The two existing Waste-to-Energy incinerators handle approximately forty percent (40%) of the residential waste stream. The volume reduction provided by these facilities, which averages around ninety percent (90%), greatly reduces our dependency on landfills while generating over 68 megawatts of energy annually. The use of these facilities reduces landfill airspace consumption by over twenty percent (20%) per year.

Landfilling is still an important part of the waste management hierarchy, as identified in the “Selected Management System”. Since the last approved SWMP in 1990, Wayne County has sited four (4) new or expanded municipal solid waste landfills with our Host Community approval process. This process has successfully sited enough capacity to handle all of Wayne County’s solid waste disposal needs until the year 2020. This life expectancy is based on current generation and recycling rates; but with improved performance in recycling, life expectancy may actually increase.

Conclusion

Wayne County, with the assistance of the Solid Waste Implementation Committee (SWIC), has determined that the existing solid waste management system will handle Wayne County’s solid waste disposal needs well beyond this plan update period. That is not to say it can’t be improved, and so with this update, the SWIC has fine-tuned the system in an effort to better meet our goals.

As a result, Wayne County will provide more attention to municipal waste composting education, while promoting industrial and commercial reduce, reuse, recycle programs. Wayne County will continue working with the solid waste landfills within the County to support efforts to maximize use of available airspace, thereby prolonging the existing life. They will also be working to achieve the goals by fostering partnerships with local communities to gather strong commitment and support from the people most affected.

The final piece of the updated SWMP is the Wayne County Solid Waste Ordinance (Ordinance). The Ordinance has been beneficial in providing the reports necessary to monitor the performance of the County with regard to its goals. In addition, it has provided the necessary tools to assure Wayne County has oversight of the solid waste facilities within its jurisdiction. As part of this

SWMP update, the Ordinance has been rewritten to reflect recent changes in State solid waste regulations and has been streamlined to eliminate duplication.

WAYNE COUNTY SOLID WASTE PLANNING GOALS

- 1. REDUCE THE AMOUNT OF SOLID WASTE GENERATED THAT MUST BE LANDFILLED.**
 - Encourage curbside recycling with target recycling goal of 25% of total waste stream collected, to reduce dependency on landfills.
 - Encourage yard waste composting and grass cycling with goal of diverting 15% of the total waste stream collected.
 - Encourage the continued use of existing waste to energy incinerators as a method of waste volume reduction and energy reuse.
 - Promote industrial and commercial reduce, reuse, and recycle programs.
- 2. OPTIMIZE THE USE AND LIFE OF EXISTING SOLID WASTE DISPOSAL AREAS.**
 - Encourage and support maximum utilization of available airspace at landfills through the use of Alternate Daily Cover.
 - Encourage and support operational changes at landfills that promote improved compaction rates.
- 3. ENSURE LOCAL AND PUBLIC PARTICIPATION IN THE DEVELOPMENT AND IMPLEMENTATION OF THE SOLID WASTE MANAGEMENT PLAN.**
 - Form partnerships with local communities through outreach and education on recycling; waste minimization and landfilling to more effectively advance the goals of the Solid Waste Management Plan at the local level.
 - Recognize the importance of local community involvement with the success of waste minimization and recycling efforts, and actively seek local community input regarding Best Management Practices.
 - Assist local communities in compiling accurate data for evaluating the effectiveness of their reduce, reuse, recycle programs.
- 4. SUSTAIN AND ENHANCE COMPLIANCE AND ENFORCEMENT PROGRAMS.**
 - Continue enforcement and updating of the Wayne County Solid Waste Ordinance.
 - Enhance and maintain the level of service provided by Wayne County Department of Environment Land Resource Management Division's Solid Waste Program.

III

SOLID WASTE GENERATION and DISPOSAL DATA BASE

Overview

This section reports a five-year history of solid waste generation rate for each Wayne County community, and also reports the source, type and quantity of solid waste disposed at Wayne County landfill facilities. Included in this section is an inventory of authorized solid waste disposal areas located in Wayne County.

Summary

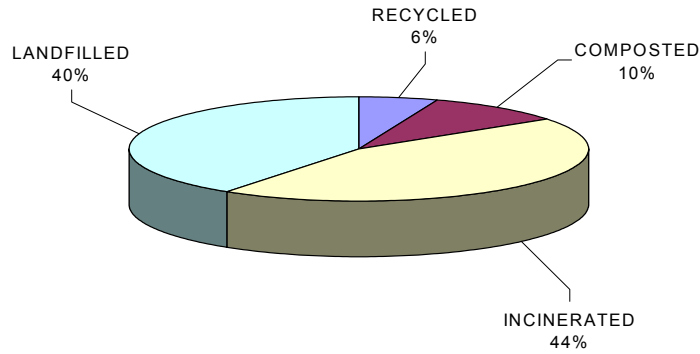
The following tables and charts summarize the information provided in the database section of this plan. This summary includes the break down of how the residential waste generated within the County has been disposed of. It also includes the makeup of the waste disposed of in the landfills within Wayne County by waste category and by geographic region in which the waste was generated.

The 5-year residential waste disposal profile (*reported in tons*) for Wayne County is:

	TOTAL	RECYCLED	COMPOSTED	INCINERATED	LANDFILLED
1995	1,093,593	37,649	109,939	562,378	419,442
1996	1,156,416	71,514	105,394	582,931	431,681
1997	1,284,342	75,903	129,733	569,458	564,116
1998	1,257,459	75,575	144,584	515,063	561,152
1999	1,295,048	82,723	114,376	545,396	546,657
Total	6,086,858	343,364	604,026	2,775,226	2,523,048
Average	1,217,000	69,000	121,000	555,000	505,000

Wayne County's population is 2,107,016 based on 1999 community reports. The typical Wayne County resident generates approximately 3.2 pounds of waste per day based on waste generation reports prepared by each community. These community reports are the basis for the waste disposal quantities reported above. TABLE 1 through TABLE 5 on pages 13-17 shows the percentage of residential waste diverted from landfill disposal for the years 1995 - 1999. Wayne County diversion techniques include recycling, composting and incineration (with energy recovery). Over the past 5 years approximately 60% of Wayne County's residential waste has been diverted from direct landfilling. Wayne County and its communities have successfully decreased the dependency on landfills as a primary solid waste management technique.

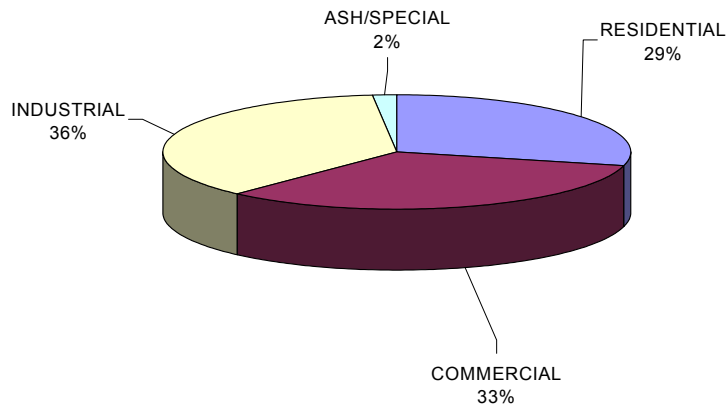
**Residential Waste Disposal Profile
5 Year Average**



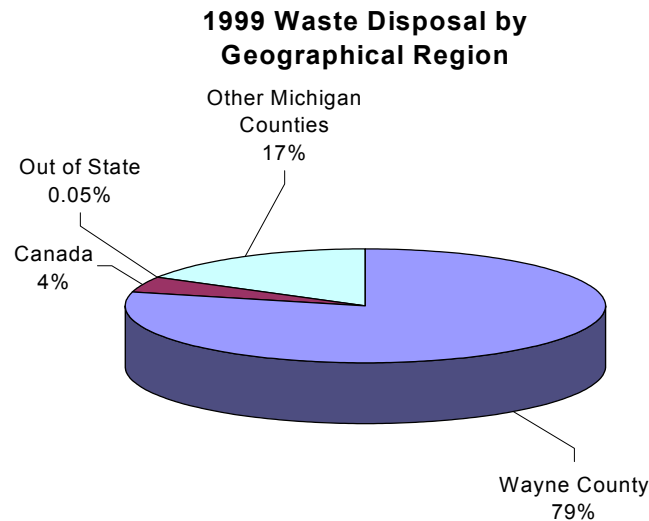
The waste disposal profile based on waste category for the last 5-years (*reported in gate cubic yards*) for Wayne County landfills is:

	TOTAL	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	ASH/SPECIAL
1995	10,195,194	2,621,882	3,452,768	3,941,118	179,427
1996	11,476,833	2,665,934	4,826,180	3,839,632	145,087
1997	10,422,370	2,457,772	3,711,149	4,074,960	178,489
1998	10,242,456	2,901,952	3,305,691	3,879,907	154,906
1999	12,129,564	5,046,324	2,680,384	4,224,749	178,107
Total	54,466,417	15,693,864	17,976,172	19,960,366	836,016
Average	10,893,283	3,138,773	3,595,234	1,990,000	167,203

**Waste Disposal By Category
5 Year Average**



Wayne County landfills are accepting waste from a variety of communities within Michigan as well as waste from Canada and surrounding States. Historically the waste volumes imported into Wayne County have nearly equaled the volume of Wayne County waste exported. The following graph depicts the percentage of waste disposed of at Wayne County landfills in 1999 based on geographical location.



Wayne County currently has 10 active landfills, which accepted over 12 million cubic yards of waste for disposal in 1999. The table below identifies these facilities, their annual disposal volume in 1999 and their remaining capacity based on approved design.

	1999 Data		
Site	Current Airspace (bcy)	Remaining Life (years)	Disposal vol (gcy).
Allen Park	1,823,870	4	408,191
Carleton Farms-MSW	63,390,000	67	1,899,955
Countywide	3,800,000	15	250,000*
Huron Quarry	578,840	11	54,750*
Levy	2,721,500	9	318,671
Livonia	178,207	17	10,761
Riverview	13,380,000	19	1,374,648
Sauk Trails	23,637,817	12	4,088,532
Sibley Quarry	15,000,000	60	250,000
Woodland Meadows	22,544,000	12	3,806,322

The total remaining life of Wayne County's landfills is **approximately 20 years**** based on the disposal capacities and utilization rates identified in 1999 Annual Waste Stream Reports provided by each facility. These numbers represent actual capacities and yearly disposal volumes as of Dec. 31, 1999.

* These values have been estimated for purposes of calculating a remaining life since neither facility was accepting waste in 1999.

** To determine this value, the current airspace available was totaled for all landfills, which is in bank cubic yards, and was divided by the total disposal volume (converted into bcy). Since two different waste types were combined, two different conversion factors to convert gate cubic yards (gcy) into bank cubic yards (bcy) were utilized. For simplicity a consistent conversion for type II waste at $2 \text{ gcy} = 1 \text{ bcy}$ and for type III landfills at $1 \text{ gcy} = 1 \text{ bcy}$ was assumed. This provides a conservative estimate since at most facilities, the conversion will generally be greater. The availability of this airspace to be used if other facilities were to close, was also evaluated. In developing the available life for Wayne County's solid waste landfills, the volume available at Sibley Quarry was not included since this is a very specialized landfill that generally would not be acceptable for waste other than coal ash and would have artificially inflated the remaining life.

**MUNICIPAL WASTE GENERATED
CALENDAR YEAR 1995**

Table 1

MUNICIPALITY	POPULATION	Residential Waste (reported as Tons)				TOTAL
		RECYCLED	COMPOSTED	LANDFILLED	INCINERATED	
Allen Park	31,092	1,650	4,503	12,206	0	18,360
Belleville *	3,270	74	1,176	0	0	1,790
Browstown	21,500	118	125	6,766	0	7,009
Canton	66,119	1,988	4,029	31,171	0	37,188
Dearborn	89,286	4,082	8,721	38,365	0	51,168
Dearborn Hts.	60,838	913	9,113	9,599	25,260	35,286
Detroit	1,027,974	0	9,697	57,303	450,000	490,000
Ecorse	13,301	0	346	7,715	0	8,061
Flat Rock *	7,810	0	0	0	0	4,276
Garden City	32,000	464	4,460	8,021	21,109	26,033
Gibraltar	4,297	75	0	1,588	0	1,663
Grosse Ile. Twp.	10,124	292	1,032	5,831	0	7,155
Grosse Pte	5,681	450	992	423	4,358	5,800
Grosse Pte. Farms	10,092	734	1,936	549	5,658	8,328
Grosse Pte. Prk.	12,500	929	3,960	771	7,944	12,833
Grosse Pte. Shores	3,100	215	0	199	2,048	2,048
Grosse Pte. Woods	17,715	1,476	5,461	818	8,429	15,366
Hamtramck	18,300	70	585	11,372	0	12,027
Harper Woods	14,600	848	1,677	435	7,252	10,212
Highland Park	20,000	0	357	38	6,336	6,693
Huron Twp.	12,423	404	14	2,303	0	2,720
Inkster	30,000	40	1,418	5,173	13,614	15,072
Lincoln Park	41,832	1,589	2,989	15,289	0	19,867
Livonia	100,850	6,792	17,495	31,974	0	59,568
Melvindale	11,216	346	845	4,547	0	5,738
Northville Twp.	17,713	1,841	1,141	2,776	0	5,758
Northville, City	6,500	690	508	1,737	0	2,934
Plymouth Twp.	23,648	1,952	1,791	6,407	0	10,150
Plymouth, City	9,560	960	1,605	1,446	0	4,011
Redford Twp.	54,000	2,755	7,392	17,861	0	28,008
River Rouge	11,314	147	0	0	0	7,351
Riverview	13,637	85	1,038	7,070	0	8,192
Rockwood	3,141	99	260	814	0	1,174
Romulus	22,580	39	0	3,978	0	4,108
Southgate	30,771	1,227	4,550	9,174	0	14,951
Sumpter Twp.	10,891	42	8	8,407	0	8,520
Taylor	72,000	116	2,194	30,476	0	32,786
Trenton	20,586	534	1,210	11,580	0	13,324
Van Buren Twp.	21,010	413	939	0	0	6,802
Wayne	19,899	148	1,460	3,940	10,369	11,977
Westland *	86,000	1,468	3,110	43,872	0	48,450
Woodhaven	12,500	453	231	4,289	0	4,973
Wyandotte	30,938	1,130	1,573	13,161	0	15,864
Total	2,132,608	37,649	109,939	419,442	562,378	1,093,593

* Estimated

Source: Annual Municipality Waste Stream Reports

WAYNE COUNTY-1995
POPULATION 2,132,608
RESIDENTIAL WASTE 1,093,593 Tons
PER PERSON / PER DAY 2.8 Lbs

DIVERTED 64.9%
RECYCLED 3.4%
COMPOSTED 10.1%
INCINERATED 51.4%

**MUNICIPAL WASTE GENERATED
CALENDAR YEAR 1996**

Table 2

MUNICIPALITY	POPULATION	Residential Waste (reported as Tons)				
		RECYCLED	COMPOSTED	LANDFILLED	INCINERATED	TOTAL
Allen Park	31,092	1,624	4,110	12,596	0	18,331
Belleville *	3,270	0	0	0	0	1,790
Browstown	21,500	81	327	5,215	0	5,623
Canton	65,978	1,658	2,028	17,984	0	21,671
Dearborn	89,286	4,082	6,469	35,827	0	46,378
Dearborn Hts.	60,838	872	9,006	9,603	25,272	35,150
Detroit	1,027,974	36,224	5,856	111,600	434,617	562,220
Ecorse	11,338	0	700	5,753	0	6,454
Flat Rock *	7,810	0	0	0	0	4,276
Garden City	32,000	427	5,965	7,923	20,850	27,242
Gibraltar *	4,148	82	0	1,788	0	1,870
Grosse Ile. Twp.	10,164	491	1,256	4,563	0	6,310
Grosse Pte	5,681	440	1,327	395	4,074	5,841
Grosse Pte. Farms	10,080	724	2,303	574	5,920	8,947
Grosse Pte. Prk. *	12,500	929	3,960	725	7,478	12,843
Grosse Pte. Shores *	3,100	186	0	174	1,796	2,093
Grosse Pte. Woods *	17,715	1,276	4,412	728	7,506	13,579
Hamtramck *	18,300	70	585	11,372	0	12,027
Harper Woods *	14,600	848	1,677	435	7,252	10,212
Highland Park *	20,000	0	310	25	5,870	6,205
Huron Twp. *	12,710	313	181	2,521	0	3,015
Inkster	30,000	23	1,118	521	13,772	14,913
Lincoln Park	41,832	1,435	5,692	16,247	0	23,374
Livonia	100,850	6,459	18,310	33,851	0	66,592
Melvindale	11,216	309	847	5,142	0	6,297
Northville Twp.	17,713	819	1,118	2,965	0	4,901
Northville, City	6,500	718	605	1,600	0	2,923
Plymouth Twp.	23,648	1,296	1,615	5,662	0	8,574
Plymouth, City	9,560	512	1,000	2,945	0	4,457
Redford Twp.	54,000	3,125	7,512	21,078	0	31,715
River Rouge	13,000	136	795	6,420	0	7,351
Riverview	13,636	91	1,767	6,804	0	8,662
Rockwood	3,141	89	119	1,307	0	1,515
Romulus	22,580	551	831	3,644	0	5,026
Southgate	30,771	1,079	2,560	10,243	0	13,882
Sumpter Twp.	10,891	103	18	6,879	0	6,999
Taylor	72,000	70	1,962	31,330	0	33,361
Trenton	20,586	552	1,346	11,749	0	13,646
Van Buren Twp.	21,010	441	989	4,994	0	6,424
Wayne	19,899	115	1,547	3,393	8,930	10,592
Westland *	84,750	1,485	3,168	5,246	39,595	49,494
Woodhaven	12,500	568	376	5,206	0	6,151
Wyandotte	30,938	1,211	1,628	14,653	0	17,492
Total	2,131,105	71,514	105,394	431,681	582,931	1,156,416

*Estimated

Source: Annual Municipality Waste Stream Reports

WAYNE COUNTY - 1996

POPULATION 2,131,105
RESIDENTIAL WASTE 1,156,416 Tons
PER PERSON /PER DAY 3.0 Lbs

DIVERTED 65.70%
RECYCLED 6.2%
COMPOSTED 9.1%
INCINERATED 50.4%

**MUNICIPAL WASTE GENERATED
CALENDAR YEAR 1997**

Table 3

MUNICIPALITY	POPULATION	Residential Waste (reported as Tons)				
		RECYCLED	COMPOSTED	LANDFILLED	INCINERATED	TOTAL
Allen Park	31,092	1,647	4,841	13,436	0	19,925
Belleville *	3,270	0	0	0	0	1,790
Brownstown	23,000	41	537	7,111	0	7,688
Canton	65,978	1,976	4,432	37,056	0	43,464
Dearborn	95,000	4,286	5,135	42,839	0	52,260
Dearborn Hts.	60,838	907	9,819	12,384	23,823	37,643
Detroit	1,027,974	35,383	10,382	169,197	427,717	617,017
Ecorse *	11,338	0	700	5,753	0	6,454
Flat Rock *	7,810	0	0	0	0	4,276
Garden City *	32,000	427	5,965	7,923	20,850	27,242
Gibraltar	4,148	86	0	1,783	0	1,872
Grosse Ile. Twp.	10,314	543	1,720	3,616	0	5,880
Grosse Pte	5,681	498	1,480	402	4,140	6,118
Grosse Pte. Farms	10,080	801	2,553	590	6,083	9,437
Grosse Pte. Prk. *	12,500	929	3,960	725	7,478	12,843
Grosse Pte. Shores	2,955	229	0	144	1,488	1,717
Grosse Pte. Woods	17,749	1,455	4,592	755	7,785	13,832
Hamtramck *	18,300	70	585	11,372	0	12,027
Harper Woods *	14,600	848	1,677	435	7,252	10,212
Highland Park	20,000	0	267	5,282	0	5,548
Huron Twp.	12,710	291	192	2,652	0	3,135
Inkster *	30,000	23	1,118	5,233	13,772	14,913
Lincoln Park	41,832	1,422	7,395	16,499	0	25,316
Livonia	100,850	7,770	18,566	33,462	0	64,678
Melvindale	11,216	290	745	5,033	0	6,068
Northville Twp.	20,641	994	1,591	4,919	0	7,504
Northville, City	6,500	2,195	947	7,657	0	10,779
Plymouth Twp.	24,500	1,703	1,920	7,457	0	11,080
Plymouth, City	9,560	593	1,207	2,829	0	4,599
Redford Twp.	54,000	2,913	8,824	20,339	0	32,076
River Rouge	11,000	1,008	3,596	16,200	0	20,804
Riverview	13,894	87	1,441	7,313	0	8,841
Rockwood	3,141	68	449	1,599	0	2,117
Romulus	22,580	553	935	4,241	0	5,728
Southgate	30,771	1,102	1,736	14,733	0	17,570
Sumpter Twp.	10,891	50	22	4,726	0	4,797
Taylor	68,000	53	9,821	29,618	0	39,492
Trenton	20,586	541	2,205	10,811	0	13,558
Van Buren Twp.	21,010	567	483	7,138	0	8,187
Wayne	19,899	113	1,703	405	10,318	12,134
Westland	84,750	1,468	3,110	20,233	38,752	48,450
Woodhaven	13,000	655	727	5,433	0	6,815
Wyandotte	30,938	1,319	2,356	14,781	0	18,456
Total	2,136,896	75,903	129,733	564,116	569,458	1,284,341

* Estimated

Source: Annual Municipality Waste Stream Reports

WAYNE COUNTY - 1997

POPULATION 2,136,896
RESIDENTIAL WASTE 1,284,342
PER PERSON /PER DAY 3.3

DIVERTED 60.3%
RECYCLED 5.9%
COMPOSTED 10.1%
INCINERATED 44.3%

**MUNICIPAL WASTE GENERATED
CALENDAR YEAR 1998**

Table 4

MUNICIPALITY	POPULATION	Residential Waste (reported as Tons)				
		RECYCLED	COMPOSTED	LANDFILLED	INCINERATED	TOTAL
Allen Park	31,092	1,628	6,548	11,816	0	19,992
Belleville *	3,270					1,790
Brownstown	23,000	85	991	6,655	0	7,731
Canton	67,924	2,072	4,843	39,558	0	46,641
Dearborn	95,000	4,640	6,288	37,115	0	48,043
Dearborn Hts.	60,838	953	8,253	20,823	10,925	36,912
Detroit	1,027,974	35,823	6,826	149,399	424,006	590,614
Ecorse *	11,338	0	700	5,753	0	6,454
Flat Rock *	7,810	290	0	0	0	4,276
Garden City *	31,846	421	4,258	13,145	9,525	23,730
Gibraltar	4,148	78	0	1,797	0	1,875
Grosse Ile	10,500	526	1,543	3,616	0	5,685
Grosse Pte	5,681	509	1,356	380	3,918	5,783
Grosse Pte. Farm	10,080	839	1,998	573	5,903	8,740
Grosse Pte. Park *	12,500	929	3,960	725	7,478	12,843
Grosse Pte. Shores	3,300	700	1,474	1,546	0	3,720
Grosse Pte. Woods	17,715	1,188	4,167	765	7,887	14,430
Hamtramck *	18,300	70	585	11,372	0	12,027
Harper Woods *	14,600	848	1,677	435	7,252	10,212
Highland Park *	20,000	0	310	25	5,870	6,205
Huron Twp	12,710	228	187	2,756	0	3,172
Inkster	30,000	23	1,118	9,501	6,886	14,913
Lincoln Park	41,832	1,422	7,395	16,499	0	26,739
Livonia	100,850	8,457	17,070	34,520	0	60,047
Melvindale	11,216	167	764	5,369	0	6,300
Northville Twp	20,641	1,086	1,955	4,622	0	7,663
Northville, City	6,500	814	1,345	7,214	0	9,373
Plymouth, City	9,962	618	1,166	2,085	0	3,869
Plymouth, Twp	24,500	1,752	2,191	7,831	0	11,773
Redford, Twp.	54,000	2,785	6,915	20,954	0	30,654
River Rouge	11,000	834	15,922	10,727	0	27,483
Riverview	13,894	77	1,464	7,232	0	8,773
Rockwood *	3,141	68	449	1,599	0	2,117
Romulus	22,580	640	953	4,372	0	5,816
Southgate	30,771	1,096	1,682	14,112	0	16,889
Sumpter	11,000	62	21	5,899	0	5,982
Taylor	68,000	64	9,853	23,890	0	33,807
Trenton	20,584	594	3,361	10,911	0	14,866
VanBuren Twp.	22,000	581	347	8,818	0	9,745
Wayne	19,899	126	1,476	5,699	4,143	9,887
Westland	84,750	446	9,329	29,353	21,271	52,316
Woodhaven	13,000	773	935	6,442	0	8,150
Wyandotte *	30,938	1,262	2,910	15,249	0	19,421
Total	2,140,684	75,575	144,584	561,152	515,063	1,257,459

* Estimated

Source: Annual Municipality Waste Stream Reports

WAYNE COUNTY - 1998

POPULATION 2,140,684
RESIDENTIAL WASTE 1,257,459 Tons
PER PERSON /PER DAY 3.2 Lbs

DIVERTED 58.5%
RECYCLED 6.0%
COMPOSTED 11.5%
INCINERATED 41.0%

**MUNICIPAL WASTE GENERATED
CALENDAR YEAR 1999**

Table 5

MUNICIPALITY	POPULATION	Residential Waste (reported as Tons)				
		RECYCLED	COMPOSTED	LANDFILLED	INCINERATED	TOTAL
Allen Park	31,092	1,696	4,019	12,611	0	18,326
Belleville	3,300	241	336	1,242	0	1,819
Brownstown	24,000	53	1,465	8,942	0	10,460
Canton	67,924	2,005	4,693	41,100	0	47,798
Dearborn	90,000	4,465	8,098	41,539	0	54,102
Dearborn Hts.	60,838	864	7,133	27,769	0	35,766
Detroit	1,027,974	38,979	4,187	129,686	422,253	595,105
Ecorse*	11,338	0	0	6,454	0	6,454
Flat Rock*	7,810	0	0	4,276	0	4,276
Garden City	31,846	942	7,562	40,086	0	48,590
Gibraltar	4,400	91	0	1,754	0	1,846
Grosse Ile	11,300	488	1,695	6,027	0	8,210
Grosse Pte	5,681	515	1,591	4,228	0	6,334
Grosse Pte. Farm	10,080	854	1,890	6,753	0	9,497
Grosse Pte. Park	12,857	900	0	8,610	0	9,510
Grosse Pte. Shores	3,300	699	1,301	1,507	0	3,507
Grosse Pte. Woods	17,816	1,247	3,997	6,183	0	11,427
Hamtramck*	18,300	0	0	12,027	0	12,027
Harper Woods	14,600	3,899	1,157	7,356	0	12,412
Highland Park	20,000	0	336	0	4,736	5,072
Huron Twp	13,021	189	358	3,553	0	4,100
Inkster	32,000	21	1,490	12,665	0	14,176
Lincoln Park	41,832	876	3,583	18,557	0	23,016
Livonia	100,850	8,589	17,499	32,031	6,615	64,733
Melvindale	11,216	284	783	4,638	0	5,705
Northville, City	6,500	498	1,303	2,635	0	4,436
Northville Twp	20,641	1,176	1,873	4,947	0	7,996
Plymouth, City	9,962	442	647	2,257	0	3,346
Plymouth, Twp	26,163	1,732	1,785	7,044	0	10,562
Redford, Twp.	54,000	2,933	7,906	25,441	0	36,280
River Rouge	9,563	2,136	2,201	17,384	0	21,721
Riverview	13,894	87	1,707	7,376	0	9,170
Rockwood	3,140	120	190	1,163	0	1,473
Romulus	22,580	402	969	5,746	0	7,118
Southgate	30,771	870	2,734	11,316	0	14,920
Sumpter	11,000	34	35	3,971	0	4,040
Taylor	68,000	490	4,307	44,428	0	49,226
Trenton	20,586	608	3,001	15,960	0	19,569
VanBuren Twp.	22,000	583	1,312	8,211	0	10,107
Wayne	19,899	137	1,132	8,340	0	9,609
Westland	84,750	218	5,104	38,623	0	43,945
Woodhaven	13,000	737	800	4,757	0	6,294
Wyandotte	30,938	1,147	2,628	15,668	0	19,443
Total	2,140,762	82,248	112,809	664,861	433,604	1,293,520

*Estimated

Source: Annual Municipality Waste Stream Reports

WAYNE COUNTY - 1999

POPULATION 2,120,762.0
RESIDENTIAL WASTE 1,293,520.0 Tons
PER PERSON / PER DAY 3.3 Lbs.

DIVERTED 48.6%
RECYCLED 6.4%
COMPOSTED 8.7%
INCINERATED 33.5%

Data presented is from Annual Waste Stream Reports submitted by solid waste facilities to Wayne County Department of Environment's Land Resource Management Division. Non-Wayne County information includes other counties', states', and Canadian waste.

1999 Totals (GCY)

	Wayne County				Non Wayne County				Totals
	Residential	Commercial	Industrial	Ash	Residential	Commercial	Industrial	Ash	
Allen Park Clay Mine	0	0	394,834	0	0	0	13,357	0	408,191
Carleton Farms	1,019,004	0	293,333	178,107	352,144	0	57,075	0	1,899,663
CWCSA-Huron Quarry	0	0	0	0	0	0	0	0	0
E.C. Levy	0	0	318,671	0	0	0	0	0	318,671
Riverview Landfill	458,082	389,010	454,656	0	1,077	71,673	150	0	1,374,648
Sauk Trail Hills	1,254,811	321,187	1,088,589	0	658,575	231,018	534,352	0	4,088,532
Sibley Quarry	0	0	233,537	0	0	0	0	0	233,537
Woodland Meadows	665,270	1,220,014	784,150	0	637,361	447,482	52,045	0	3,806,322
TOTAL	3,397,167	1,930,211	3,567,770	178,107	1,649,157	750,173	656,979	0	12,129,564

1998 Totals (GCY)

	Wayne County				Non Wayne County				Totals
	Residential	Commercial	Industrial	Ash	Residential	Commercial	Industrial	Ash	
Allen Park Clay Mine	0	0	227,337	0	0	0	7,170	0	234,507
Carleton Farms	258,806	678,305	779,395	154,906	374,876	86,445	206,655	0	2,539,388
CWCSA-Huron Quarry	0	0	17,144	0	0	0	0	0	17,144
E.C. Levy	0	0	378,704	0	0	0	0	0	378,704
Riverview Landfill	452,172	216,444	35,909	0	3,141	2,401	0	0	710,067
Sauk Trail Hills	804,448	185,944	674,555	0	499,592	18,383	300,554	0	2,483,476
Sibley Quarry	0	0	230,601	0	0	0	0	0	230,601
Woodland Meadows	292,860	1,188,374	935,671	0	216,057	929,395	86,212	0	3,648,569
TOTAL	1,808,286	2,269,067	3,279,316	154,906	1,093,666	1,036,624	600,591	0	10,242,456

1997 Totals (GCY)

	Wayne County				Non Wayne County				Totals
	Residential	Commercial	Industrial	Ash	Residential	Commercial	Industrial	Ash	
Allen Park Clay Mine	0	0	131,268	0	0	0	17,969	0	149,237
Carleton Farms	492,442	895,995	1,204,327	178,489	68,258	177,955	127,154	0	3,144,620
CWCSA-Huron Quarry	0	0	37,643	0	0	0	0	0	37,643
E.C. Levy	0	0	334,783	0	0	0	0	0	334,782.95
Riverview Landfill	500,466	265,347	101,029	0	10,811	2,103	0	0	879,756
Sauk Trail Hills	381,674	141,777	886,337	0	530,530	21,352	326,807	0	2,288,477
Sibley Quarry	0	0	235,381	0	0	0	0	0	235,381
Woodland Meadows	278,380	800,746	555,968	0	195,211	1,405,874	116,294	0	3,352,473
TOTAL	1,652,962	2,103,865	3,486,736	178,489	804,810	1,607,284	588,224	0	10,422,370

1996 Totals (GCY)

	Wayne County				Non Wayne County				Totals
	Residential	Commercial	Industrial	Ash	Residential	Commercial	Industrial	Ash	
Allen Park Clay Mine	0	0	102,762	0	0	0	36,985	0	139,747
Carleton Farms	661,171	975,193	1,117,853	145,087	276,320	340,325	139,921	0	3,655,870
CWCSA-Huron Quarry	0	0	0	0	0	0	0	0	0
E.C. Levy	0	0	369,957	0	0	0	0	0	369,957
Riverview Landfill	483,212	262,555	17,660	0	331,895	238,258	908	0	1,334,488
Sauk Trail Hills	232,054	106,196	517,236	0	266,925	37,555	678,882	0	1,838,848
Sibley Quarry	0	0	236,346	0	0	0	7907	0	244,253
Woodland Meadows	270,471	945,166	471,383	0	143,886	1,920,932	141,832	0	3,893,670
TOTAL	1,646,908	2,289,110	2,833,197	145,087	1,019,026	2,537,070	1,006,435	0	11,476,833

1995 Totals (GCY)

	Wayne County				Non Wayne County				Totals
	Residential	Commercial	Industrial	Ash*	Residential	Commercial	Industrial	Ash	
Allen Park Clay Mine	0	0	115,226	0	0	0	44,689	0	159,915
Carleton Farms	595,825	1,296,549	959,198	179,427	593,720	242,886	216,502	0	4,084,107
CWCSA-Huron Quarry	0	0	33,000	0	0	0	0	0	33,000
E.C. Levy	0	0	353,555	0	0	0	0	0	353,555
Riverview Landfill	437,210	324,455	314,420	0	8	737,961	0	0	1,814,053
Sauk Trail Hills	251,885	96,264	540,564	0	363,436	81,961	669,629	0	2,003,739
Sibley Quarry	0	0	213,897	0	0	0	26,866	0	240,763
Woodland Meadows	255,588	346,700	385,599	0	124,210	325,992	67,973	0	1,506,062
TOTAL	1,540,508	2,063,968	2,915,459	179,427	1,081,374	1,388,800	1,025,659	0	10,195,194

1994 Totals (GCY)

	Wayne County				Non Wayne County				Totals
	Residential	Commercial	Industrial	Ash	Residential	Commercial	Industrial	Ash	
Allen Park Clay Mine	0	0	207,164	0	0	0	37,463	0	244,627
Carleton Farms	4,317,154	0	0	0	87,800	0	0	0	4,404,954
CWCSA-Huron Quarry	29,795	0	0	0	0	0	0	0	29,795
E.C. Levy	0	0	327,204	0	0	0	0	0	327,204
Riverview Landfill	543,167	199,403	103,297	0	0	314,602	0	0	1,160,469
Sauk Trail Hills	394,510	133,369	407,538	0	576,363	29,262	561,790	0	2,202,832
Sibley Quarry	0	0	320,000	0	0	0	34,680	0	354,680
Woodland Meadows	77,153	235,511	153,564	0	21,396	203,547	15,521	0	706,692
TOTAL	5,361,779	568,283	1,518,767	0	685,559	547,411	649,454	0	9,431,253

Facility Descriptions

The following table lists all solid waste disposal areas within Wayne County or to be used by Wayne County to meet its disposal needs for the planning period. The facility description sheets for these facilities, information on the closed landfills that will remain included in the Plan (pp. A 44 – A 46), and information regarding the facilities removed from the Plan as part of this update, can be found in Appendix A.

Facility Name & Location	Facility Type	Page Number
Wayne County Landfills		
Carleton Farms, Sumpter Twp., Wayne County	Type II Landfill/Ash Monofill	A 3
Countywide, Gibraltar, Wayne County	Type III Landfill	A 4
Edw. C. Levy, Taylor, Wayne County	Type III Landfill	A 5
Ford Allen Park Clay Mine, Allen Park, Wayne County	Type II Landfill	A 6
Huron Monofill, Huron Twp., Wayne County	Ash Monofill	A 7
Livonia Landfill, Livonia, Wayne County	Type III Landfill	A 8
Riverview Land Preserve, Riverview, Wayne County	Type II Landfill	A 9
Sauk Trail Hills, Canton, Wayne County	Type II Landfill	A 10
Sibley Quarry, Trenton, Wayne County	Type III Landfill	A 11
Woodland Meadows, Van Buren Twp., Wayne County	Type II Landfill	A 12
Wayne County Waste-to-Energy Facilities		
CWCSA, Dearborn Heights, Wayne County	Waste-to-Energy Facility	A 13
Greater Detroit Resource Recovery, Detroit, Wayne County	Waste-to-Energy Facility	A 14
Wayne County Type A Transfer Stations (> 200 yd3/day)		
American Waste Oil, Belleville, Wayne County	Type A Transfer Station	A 15
City Disposal Systems, Detroit, Wayne County	Type A Transfer Station	A 16
Dearborn Transfer, Dearborn, Wayne County	Type A Transfer Station	A 17
Detroit Transfer and Recycling, Detroit, Wayne County	Type A Transfer Station	A 18
Dinverno, Detroit, Wayne County	Type A Transfer Station and Processing Plant	A 19
Metropolitan Transfer Center, Detroit, Wayne County	Type A Transfer Station	A 25
New Center Recycling, Detroit, Wayne County	Type A Transfer Station and Processing Plant	A 26
Onyx Transfer, Dearborn, Wayne County	Type A Transfer Station	A 28
S&J, River Rouge, Wayne County	Type A Transfer Station and Processing Plant	A 32
Southfield Yard, Detroit, Wayne County	Type A Transfer Station	A 33
Trenton Transfer, Trenton, Wayne County	Type A Transfer Station	A 36
Waste Management – Livonia Yard, Livonia, Wayne County	Type A Transfer Station	A 37
Wayne County Type B Transfer Stations (< 200 yd3/day)		
Hamtramck Transfer, Hamtramck, Wayne County	Type B Transfer Station	A 20
Inkster Transfer, Inkster, Wayne County	Type B Transfer Station	A 21
Lincoln Park Transfer, Lincoln Park, Wayne County	Type B Transfer Station	A 22
Livonia Transfer, Livonia, Wayne County	Type B Transfer Station	A 23
Markwell Trucking, Belleville., Wayne County	Type B Transfer Station	A 24
Northville City Transfer, Northville, Wayne County	Type B Transfer Station	A 25
Plymouth City Transfer, Plymouth, Wayne County	Type B Transfer Station	A 29
River Rouge Transfer, River Rouge, Wayne County	Type B Transfer Station	A 30
Romulus Transfer, Romulus, Wayne County	Type B Transfer Station	A 31
Southgate Transfer, Southgate, Wayne County	Type B Transfer Station	A 34
Taylor Transfer, Taylor, Wayne County	Type B Transfer Station	A 35
Westland Transfer, Westland, Wayne County	Type B Transfer Station	A 38
Woodhaven Transfer, Woodhaven, Wayne County	Type B Transfer Station	A 39
Wyandotte Transfer, Wyandotte, Wayne County	Type B Transfer Station	A 40
Wayne County Processing Plants		
Michigan Disposal, Van Buren Twp., Wayne County	Processing Plant	A 41
Taylor Recycling, Taylor, Wayne County	Processing Plant	A 42
USL, City Environmental, Detroit, Wayne County	Processing Plant	A 43

Facility Descriptions

Facility Name & Location	Facility Type	Page Number
Out of County Landfills		
Citizens Disposal, Grand Blanc, Genesee County	Type II Landfill	A 47
McGill Rd. Landfill, Jackson, Jackson County	Type II Landfill	A 48
Adrian Landfill, Adrian, Lenawee County	Type II Landfill	A 49
Pine Tree Acres, Lenox Twp., Macomb County	Type II Landfill	A 50
Vienna Junction, Erie, Monroe County	Type II Landfill	A 51
Matlin Road Landfill, Carleton, Monroe County	Type III C&D Landfill	A 52
Rockwood Landfill, Newport, Monroe County	Type III Landfill	A 53
Oakland Heights Development, Auburn Hills, Oakland County	Type II Landfill	A 54
Eagle Valley RDF, Orion, Oakland County	Type II Landfill	A 55
Venice Park RDF, Lennon, Shiawassee County	Type II & III Landfill	A 56
Arbor Hills Landfill, Salem Township, Washtenaw County	Type II Landfill	A 57

The information within the facility description sheets in Appendix A may conflict in some respects with the information in the body of this Plan. The information on the facility description sheets has been provided by the facilities and has not been verified by Wayne County. Volumes used within this plan for calculation of capacities and existing life have been verified by Wayne County and may not be reflected within the facility description sheets in Appendix A.

Compost Facilities

Following is a list of operating compost facilities where yard clippings generated in Wayne County are delivered.

Wayne County

Facility: Taylor Compost
Owner/Operator: City of Taylor
Address: 16300 Racho Road, Taylor

Facility: Carleton Farms
Owner/Operator: Republic Waste Services
Address: 28800 Clark Road, Sumpter

Facility: Northville Compost Yard
Owner/Operator: City of Northville
Address: 650 Doheny, Northville

Monroe County

Facility: Jack's Lawn Service, Inc.
Owner/Operator: Jack Sturn
Address: 5550 W. Dunbar, Monroe

Facility: Regulated Resource Recovery
Owner/Operator: Contact Nick Straub
Address: 200 Matlin Rd., Carleton (Ash Twp.)

Macomb County

Facility: King of the Winds
Owner/Operator: Dolores Michaels
Address: 21600 Quinn Road, Clinton Township

Facility: Pine Tree Acres
Owner/Operator: WMI
Address: 36600 29 Mile, Lenox Twp.

Oakland County

Facility: Eagle Valley Transfer
Owner/Operator: WMI
Address: Silverbell Road, Orion Twp.

Facility: Wright Way Clean-Up
Owner/Operator:
Address: 1586 Valley Dr., Highland

St. Clair County

Facility: Indian Summer Recycling
Owner/Operator: Bob Brooks & Fred Thompson
Address: 5877 Bethuy Rd., Casco

Washtenaw County

Facility: Arbor Hills
Owner/Operator: Onyx Waste Services, Inc.
Address: 10599 W. Five Mile Rd., Northville

Solid Waste Collection Services And Transportation Infrastructure

The tables and maps on the following pages represent the current status of the solid waste collection services for each municipality, and the infrastructure and locations of the Type II and Type III Landfills, and Waste-to-Energy Incinerators/Incinerators that are utilized for solid waste disposal in Wayne County. Existing Transfer Stations, and Processing Facilities are also shown.

Table 7 specifically shows the waste hauler and disposal facility used by each Wayne County municipality. Table 8 shows information regarding household hazardous waste collection and yard waste collection. Table 9 lists the Transfer Stations and Processing Facilities and their current status.

**TABLE 7
WASTE COLLECTION SERVICES**

MUNICIPALITY	WASTE HAULER	DISPOSAL FACILITY
ALLEN PARK	Painter & Ruthenberg	Riverview Land Preserve
BELLEVILLE	BFI	Woodland Meadows
BROWNSTOWN TWP	Waste Management	Riverview Land Preserve
CANTON TWP	Canton Waste Recycling	Sauk Trail Hills Landfill
DEARBORN	Waste Management	Woodland Meadows
DEARBORN HEIGHTS	Painter & Ruthenberg	CWCSA Incinerator
DETROIT	Municipal Crew	GDRRA Incinerator
ECORSE	Waste Management	Riverview Land Preserve
FLAT ROCK	Waste Management	Carleton Farms Landfill
GARDEN CITY	ABCOR	CWCSA Incinerator
GIBRALTAR	ABCOR	Riverview Land Preserve
GROSSE ILE	ABCOR	Riverview Land Preserve
GROSSE POINTE	Municipal Crew	Pine Tree Acres-Macomb
GROSSE POINTE FARMS	Municipal Crew	Pine Tree Acres-Macomb
GROSSE POINTE PARK	BFI	Pine Tree Acres-Macomb
GROSSE POINTE SHORES	Municipal Crew	Pine Tree Acres-Macomb
GROSSE POINTE WOODS	Waste Management	Pine Tree Acres-Macomb
HAMTRAMCK	Municipal Crew	Carleton Farms Landfill
HARPER WOODS	Waste Management	GDRRA Incinerator
HIGHLAND PARK	Municipal Crew	GDRRA Incinerator
HURON TWP	Waste Management	Carleton Farms Landfill
INKSTER	Painter & Ruthenberg	CWCSA Incinerator
LINCOLN PARK	Waste Management	Riverview Land Preserve
LIVONIA	Waste Management	Woodland Meadows
MELVINDALE	Waste Management	Riverview Land Preserve
NORTHVILLE	Painter & Ruthenberg	Sauk Trail Hills Landfill
NORTHVILLE TWP	Painter & Ruthenberg	Sauk Trail Hills Landfill
PLYMOUTH	Painter & Ruthenberg	BFI Arbor Hills
PLYMOUTH TWP	Waste Management	Woodland Meadows
REDFORD TWP	BFI	BFI Arbor Hills
RIVER ROUGE	Waste Management	Riverview Land Preserve
RIVERVIEW	Waste Management	Riverview Land Preserve
ROCKWOOD	Waste Management	Riverview Land Preserve
ROMULUS	Waste Management	Carleton Farms Landfill
SOUTHGATE	Waste Management	Riverview Land Preserve
SUMPTER TWP	Waste Management	Carleton Farms Landfill
TAYLOR	Waste Management	Riverview Land Preserve
TRENTON	Municipal Crew	Riverview Land Preserve
VANBUREN TWP	Waste Management	Woodland Meadows
WAYNE	Painter & Ruthenberg	CWCSA Incinerator
WESTLAND	Painter & Ruthenberg	CWCSA Incinerator
WOODHAVEN	Waste Management	Riverview Land Preserve
WYANDOTTE	Waste Management	Riverview Land Preserve

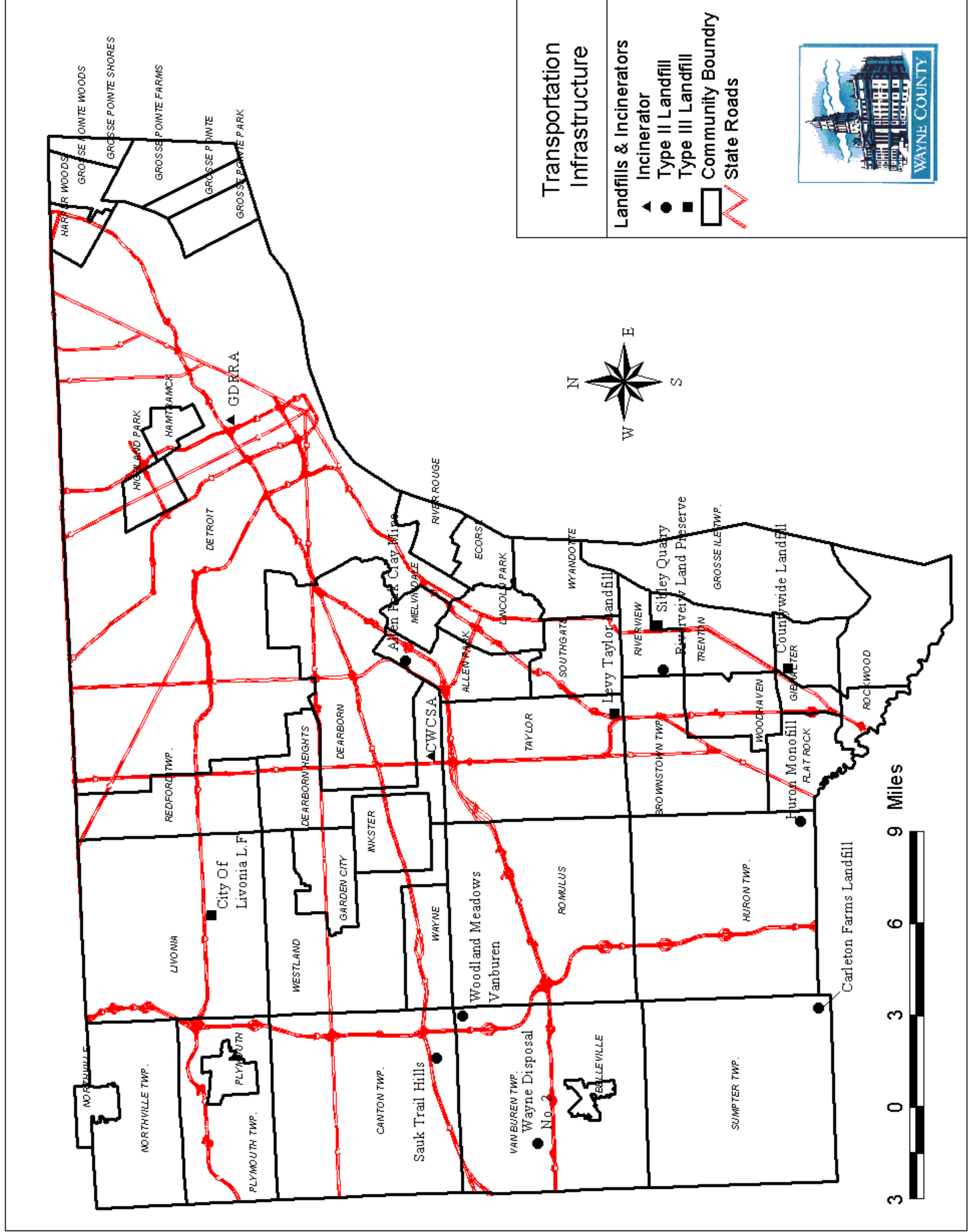
**TABLE 8
WASTE COLLECTION SERVICES**

MUNICIPALITY	HHW COLLECTION FACILITATOR	HHW COLLECTION FREQUENCY	YARDWASTE
ALLEN PARK	Riverview Land Preserve	twice per year	every other week
BELLEVILLE	n/a	n/a	weekly
BROWNSTOWN TWP	Riverview Land Preserve	twice per year	weekly
CANTON TWP	Sauk Trail Hills	annually	weekly
DEARBORN	City of Dearborn	annually	weekly
DEARBORN HEIGHTS	CWCSA	annually	weekly
DETROIT	City Environmental	scheduled appointments and scheduled events	monthly
ECORSE	n/a	n/a	weekly
FLAT ROCK	City Environmental	twice per year	weekly
GARDEN CITY	CWCSA	annually	weekly
GIBRALTAR	n/a	n/a	weekly
GROSSE ILE	n/a	n/a	weekly
GROSSE POINTE	Tringali Sanitation	rotates*	weekly
GROSSE POINTE FARMS	Tringali Sanitation	rotates*	weekly
GROSSE POINTE PARK	Tringali Sanitation	rotates*	weekly
GROSSE POINTE SHORES	Tringali Sanitation	rotates*	weekly
GROSSE POINTE WOODS	Waste Management	twice per year	weekly
HAMTRAMCK	n/a	n/a	weekly
HARPER WOODS	Tringali Sanitation	rotates*	weekly
HIGHLAND PARK	n/a	n/a	every other week
HURON TWP	n/a	n/a	weekly
INKSTER	CWCSA	annually	every other week
LINCOLN PARK	n/a	n/a	weekly
LIVONIA	Waste Management	annually	weekly
MELVINDALE	Riverview Land Preserve	twice per year	weekly
NORTHVILLE	Painter & Ruthenberg	annually	weekly
NORTHVILLE TWP	Painter & Ruthenberg	annually	weekly
PLYMOUTH	n/a	n/a	weekly
PLYMOUTH TWP	Waste Management	annually	weekly
REDFORD TWP	City Environmental	scheduled appointments and annual event	weekly
RIVER ROUGE	n/a	n/a	drop-off
RIVERVIEW	Riverview Land Preserve	twice per year	weekly
ROCKWOOD	n/a	n/a	weekly
ROMULUS	n/a	n/a	weekly
SOUTHGATE	Riverview Land Preserve	twice per year	weekly
SUMPTER TWP	n/a	n/a	drop-off
TAYLOR	Midwestern Sanitation	annually	weekly
TRENTON	Riverview Land Preserve	twice per year	weekly
VANBUREN TWP	n/a	n/a	weekly
WAYNE	CWCSA	annually	weekly
WESTLAND	CWCSA	annually	weekly
WOODHAVEN	Riverview Land Preserve	twice per year	weekly
WYANDOTTE	Riverview Land Preserve	twice per year	weekly

*Rotates annually between the Pointes and Harper Woods
n/a=not applicable

Table 9
Wayne County
Transfer Stations and Processing Facilities

MAP ID	FACILITY NAME	FACILITY ADDRESS	COMMUNITY	FACILITY TYPE/STATUS	PREVIOUS APPROVED NAMES
1	American Waste Oil	44141 Yost	Van Buren Twp.	Type A Transfer Station/Open	
3	City Disposal Systems, Inc.	1550 Harper	Detroit	Type A Transfer Station/Open	
5	CWCSA	4901 S. Inkster	Dearborn Heights	Type A Transfer Station/Open	
20	Onyx Transfer	3051 Schaefer	Dearborn	Type A Transfer Station/Open	Laidlaw/Schaefer Rd. Transfer/BFI Dbn.
6	Dearborn Transfer Station	2651 Greenfield	Dearborn	Type A Transfer Station/Open	
7	Detroit Transfer and Recycling	12001 Mack Avenue	Detroit	Type A Transfer Station/Open	WMI - Detroit North Transfer
12	Hamtramck	9600 Buffalo	Hamtramck	Type B Transfer Station/Open	
13	Inkster, City of	26900 Princeton	Inkster	Type B Transfer Station/Open	
14	Lincoln Park, City of	500 Southfield Rd.	Lincoln Park	Type B Transfer Station/Open	
15	Livonia, City of	32000 Glendale	Livonia	Type B Transfer Station/Open	
16	Markwell	15435 Martinsville Rd.	Van Buren Twp.	Type B Transfer Station/Open	
17	Metropolitan Transfer Center	6451 East McNichols	Detroit	Type A Transfer Station/Open	
19	Northville, City of	650 Doheny	Northville	Type B Transfer Station/Open	
21	Plymouth, City of	1231 Goldsmith	Plymouth	Type B Transfer Station/Open	
22	River Rouge, City of	5 Marion	River Rouge	Type B Transfer Station/Open	
23	Romulus, City of	34100 Goddard Rd.	Romulus	Type B Transfer Station/Open	
26	Southfield Yard, City of Detroit	12255 Southfield Road	Detroit	Type A Transfer Station/Open	
27	Southgate, City of	14719 Schafer Ct.	Southgate	Type B Transfer Station/Open	
28	Taylor, City of	16300 Racho Rd.	Taylor	Type B Transfer Station/Open	
30	Trenton, City of	1801 Van Horn	Trenton	Type A Transfer Station/Open	
32	Waste Mgmt Livonia	32000 Glendale	Livonia	Type A Transfer Station/Open	
33	Westland, City of	37137 Marquette	Westland	Type B Transfer Station/Open	
34	Woodhaven, City	21840 Van Horn	Woodhaven	Type B Transfer Station/Open	
35	Wyandotte, City of	2065 Biddle	Wyandotte	Type B Transfer Station/Open	
2	Progressive Sweeping	12564 Inkster	Redford	Type A Transfer Station/Closed	BFI Redford
4	Waste Management Transfer	5980 Inkster Rd	Romulus	Type A Transfer Station/Closed	Bestway Recycling, Inc., & City Env'l.
25	Detroit Energy and Recycling	2660 East Grand Boulevard	Detroit	Type A T.S. & Proc. Fac./ Closed	Circle Recycling, S&S
9	Dinvorno Transfer and Processing	4600 East Nevada	Detroit	Type A T.S. & Proc. Fac./ Open	
18	New Center Recycling	1331 Holden Avenue	Detroit	Type A T.S. & Proc. Fac./ Open	Session Transfer & Processing
24	S & J	1900 West Pleasant Ave.	River Rouge	Type A T.S. & Proc. Fac./ Open	
8	Detroit Transfer and Recycling	12001 Mack Avenue	Detroit	Processing Facility/Closed	WMI - Detroit North Processing
11	GDRRA	5700 Russell	Detroit	Processing Facility/Open	
10	Michigan Disposal Waste Treatment	49350 N. I-94 Service Dr.	Belleville	Processing Facility/Open	
28	Taylor Recycling	8767 Holland	Taylor	Processing Facility/Open	
31	USL City Environmental	1923 Frederick Street	Detroit	Processing Facility/Open	City Disposal Systems Processing



EVALUATION OF DEFICIENCIES AND PROBLEMS

With current adequate landfill capacity in Wayne County for all solid waste streams, residential, commercial, and industrial, the deficiencies and problems with the existing solid waste management system are centered on compostable materials, and recyclables.

1.) Yard Clippings:

Beginning on March 28, 1995, Michigan's Natural Resources and Environmental Protection Act, P.A. 451, Part 115, prohibited the disposal of yard clippings, as defined in the Act, in landfills and incinerators. Without the benefit of approved state guidelines outlining alternative methods of handling, the disposal of yard clippings has become a problem. A number of sites have attempted to operate compost facilities but have failed due to odor problems associated with plastic bags, and unmanageable volumes. Suitable sized land parcels, required for optimal composting, are difficult to obtain. As a result, there are few options within Wayne County for disposal of yard clippings. Illegal dumping of yard clippings has thus increased resulting in further nuisance conditions.

In order to solve these problems, Wayne County is prepared to support changes to current state regulations that prohibit land disposal of yard waste. Wayne County believes that a heightened awareness of the yard waste disposal problem could lead to supporting regulations that would allow yard waste to be disposed of at waste-to-energy incinerators and landfills that have an approved gas collection/energy recovery system.

Additionally, Wayne County is committed to further educating the public about the benefits of grass-cycling and backyard composting in order to prevent as much yard waste as possible from requiring disposal.

2.) Recycling:

Markets for recyclable materials need to be improved. A strong emphasis on procurement of goods manufactured from post-consumer recycled materials is essential in encouraging further market development. Further education is also needed among the county citizens, community leaders, business, and industry regarding the true costs of waste disposal as well as the cost-savings often realized through a sound program involving reduction, reuse, and recycling.

Relatively low disposal costs in the Southeast Michigan region create little or no economic incentive for waste reduction and recycling, and few communities are willing to place an economic disincentive on waste disposal at this time. Additionally, recycling activities are not as common within the multi-family residential, commercial, and industrial sectors as they are within the single-family residential sector. Effective programs in these three sectors could have a measurable impact on the County's overall waste stream disposal.

DEMOGRAPHICS

The following Table 10 presents the current and projected population densities for five and ten year periods, identification of current and projected solid waste generation including commercial and industrial solid waste for five and ten year periods. Population densities have been obtained by taking current population totals from municipal reports and using SEMCOG's predicted rate of change to project 5 and 10 year populations. Solid waste generation data is expressed in cubic yards and is based on current reported figures of pounds per person per day and assumes no change in generation for 5 and 10 year periods.

TABLE 10
CURRENT/PROJECTED WAYNE COUNTY POPULATION
AND SOLID WASTE GENERATION (CUBIC YARDS)*

YEAR	RESIDENTIAL POPULATION	RESIDENTIAL WASTE	COMMERCIAL POPULATION	COMMERCIAL WASTE	INDUSTRIAL POPULATION	INDUSTRIAL WASTE	TOTAL WASTE
1999	2,107,016	5,224,431	736,478	2,680,384	260,726	4,224,749	12,129,564
2000	2,100,830	5,198,924	742,245	2,682,102	260,493	4,220,123	12,101,149
2005	2,065,752	5,112,116	761,409	2,751,351	253,406	4,106,697	11,970,164
2010	2,037,131	5,041,288	769,467	2,780,469	249,272	4,039,702	11,861,459

* Totals from Annual Waste Stream reports were used to compute data.

Land Development

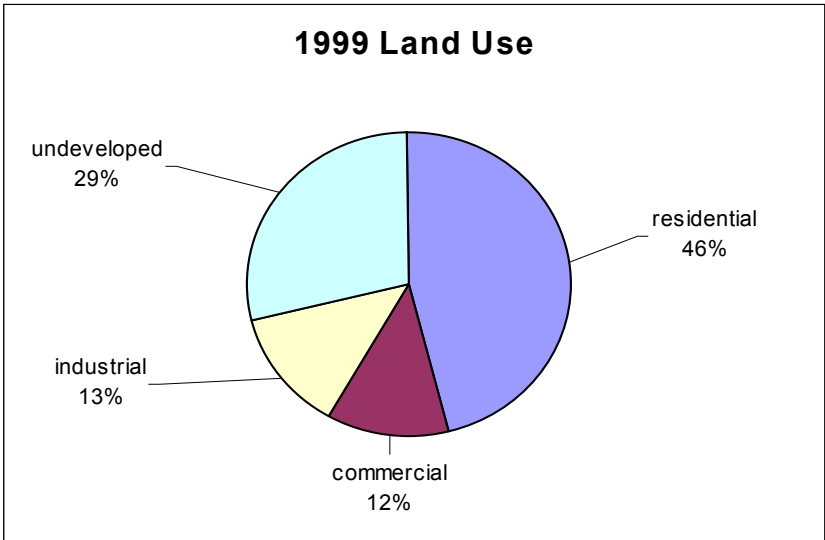
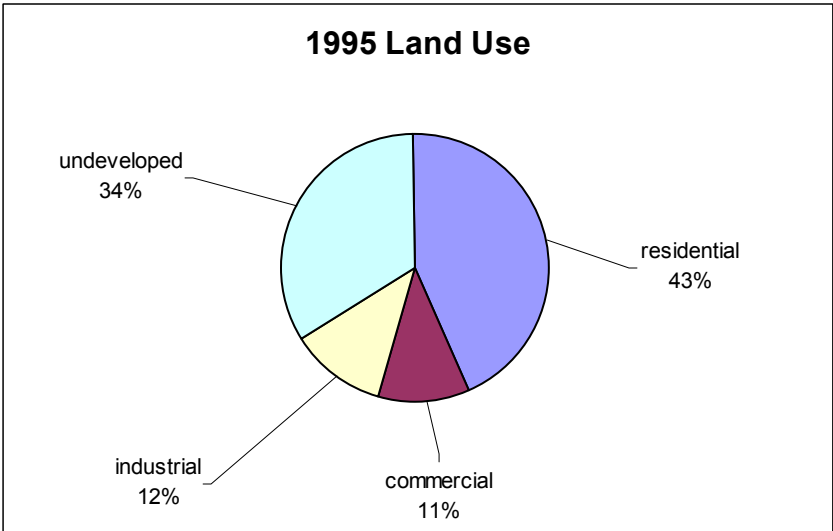
Wayne County presently has more than 20 years left of landfill space. While the need for land for development of new facilities is not an immediate concern, growth trends indicate that suitable land may not be available in the future when new facilities need to be sited. The information presented pertains only to the 25 of 43 communities in which the Wayne County Soil Erosion/Sedimentation Control (SESC) program has jurisdiction. The other 18 communities act as their own Local Enforcement Agency (LEA). Information from the SESC permitting process is one of the best methods to gauge and possibly predict growth trends in land development. The program mandates that if any development disturbs more than one acre of land or is within 500 feet of a lake or stream, an owner, contractor, or developer must obtain a local earth change permit. Any proposed landfill would most likely go through this permitting process.

Wayne County is comprised of 622.85 square miles or 398,624 acres. Wayne County Department of Environment's Land Resource Management Division (LRMD) acts as the SESC authority in 25 of the 43 communities consisting of 422.81 square miles or 270,598.4 acres. LRMD regulates 67.88% of possible permitted area. Permits are issued for residential, commercial or industrial building. Based on a 1998 SEMCOG Community Profile report, in 1995 land use was divided into 4 categories and given a percent value based on acreage: residential (43.3); commercial (10.9); industrial (11.6); and undeveloped (34.2.) The cities and townships permitted are both built up and rural in nature. All four corners of the County are included in these totals.

In 1995, 1,465 acres were permitted and in 1998, 2,159.2 acres; this is a 10.7 percent average growth increase per year between 1995 through 1998. 3,416.3 acres were permitted in 1999, which is a 36% increase over 1998. Currently, 6,151 acres are under permit. It is evident that the percentage of development in all areas of land use has increased, leaving a small amount of land left undeveloped.

Because of this expansive growth, available land is scarce for landfill development. Most of western Wayne County has been and continues to be built out. There are large parcels of land being used for residential development in the northwestern and downriver communities. Other communities have a lot of industrial construction; some of this may be redevelopment of existing or vacant properties.

The pace of demand and construction has been fierce in the last two years. While most economic forecasters do not expect the U.S. economy to slip into a severe recession, most believe the world economic problems will slow down the construction demand. *If this pace continues, locating land for new waste disposal facilities will become very difficult in the future.* Based on constitutionally guaranteed private property rights and these noted development trends, fewer contiguous tracts of land will be available for landfill development in the future.



SOLID WASTE MANAGEMENT ALTERNATIVES

Wayne County's 1990 Solid Waste Management Plan identified, considered, and evaluated an array of solid waste management techniques and alternatives based on existing and proposed facilities including both private and municipal operations.

Alternative methods for managing solid waste were grouped into four categories: waste minimization; resource conservation; volume reduction; and landfilling. All the alternatives are available and employed in Wayne County.

Waste minimization focuses on reducing the volume of material before it becomes waste. The other methods deal with materials as a waste product. Volume reduction and resource recovery technologies are complete systems that require disposal of some residual waste materials.

Waste minimization reduces the quantity of material that ultimately must be disposed of as solid waste. The principal methods are:

Less material per unit involves changes in product design and packaging. Examples of product changes are thin-wall container and elimination of individual wrapped portions.

Increased product life through the development and use of materials in products that would increase use-life and reduce replacement needs and modular design of products that would permit replacement of a part and reuse of the product rather than complete replacement.

Reuse of a product without changing its form. The returnable beverage container is an example.

Decreased consumption focuses on the elimination of products that are deemed unnecessary and the reduction in use of others. Examples of things that could be minimized are junk mail and multiple bagging of merchandise.

All of these methods reduce the quantity of waste generated and the associated costs of collection, transporting, processing and disposal. Added benefits are the conservation of resources and energy used in manufacturing process. The generator of waste chooses to use less, to reuse items more than one time, or to discard less material.

Resource conservation is the recovery of materials through recycling, composting or as energy from solid waste. Resource conservation is generally an ancillary activity associated with one or more of the other disposal approaches.

The primary resource conservation techniques are:

Waste-to-energy incineration is a process where solid waste is burned for the purpose of producing steam for heat and/or the generation of electrical power. This process reduces the fossil fuel consumption for power generation and reduces volume of waste requiring landfill space.

Recycling or the reclamation of recoverable materials found in solid waste such as paper, glass, plastics, used oil, tires and metals specifically for reuse or for regeneration as new product material. Recycling results in the reduced use of raw materials and energy to refine raw materials.

Composting is a process to convert organic waste material to a humus material for reuse in soil building and fertilization. Composting reduces the need for landfill and reduces reliance on chemical fertilizers.

Resource recovery can be categorized into direct and indirect methods. Direct resource conservation of materials takes place at the point of generation referred to as "source separation" which means that the mixed materials are transported to a processing facility to be mechanically sorted according to material types.

Source separation is a waste management component that encourages the reclamation of recoverable materials in solid waste, while reducing the total volume to be landfilled. The term "source separation" means separating materials such as paper, glass and metals, at the point of generation. Conservation of materials that are produced from diminishing a supply of natural resources saves the non-renewable resource and saves energy used to produce replacement products and consumed in disposing of the product.

An indirect resource conservation alternative is waste-to-energy incineration. Waste-to-energy considerations include the volume reduction aspect and waste's value as energy production source. Waste-to-energy facilities significantly reduce the volume of material otherwise landfilled. Recycling is another complementary alternative.

Wayne County priorities emphasize waste reduction as a primary and continuing objective as noted in the Wayne County Solid Waste Planning Goals on page 8. Additionally, the Wayne County Solid Waste Management System developed and implemented during the 1990s provides a diverse program that includes the following priorities: a.) waste minimization; b.) resource conservation; and c.) landfilling. Significant progress has been made toward the goals set forth in the previously approved 1985 and 1990 Plans. Wayne County continues to move forward to implement sound solid waste management alternatives.

III

IMPORTING WASTE INTO WAYNE COUNTY

Wayne County continues to authorize importation of waste into Wayne County as a practical and cost effective method to manage solid waste disposal. Waste importation will be controlled to provide maximum utilization of landfills located within the County by the residents and businesses of the County while still allowing some movement where and when practicable. Communities utilizing Wayne County facilities must be in compliance with recycling and composting goals defined in the Wayne County Solid Waste Management Plan. Further, any county exporting over 100,000 gate cubic yards (gcy) per year of waste into Wayne County must specifically allow reciprocal quantities of Wayne County waste into landfills within their county and so declare in their solid waste management plan. If the exporting county does not have sufficient landfill capacity to support their reciprocal agreement they will be limited to exporting 100,000 gcy per year, to Wayne County unless it has been documented that greater volumes have historically been imported. If this is the case, they will be restricted to exporting no more than their historical quantities.

The volumes identified below are yearly import amounts in gate cubic yards for those counties that are authorized to import over 100,000 gate cubic yards per year. As a practical means of monitoring import volumes, these numbers will be averaged over a 5-year period; in any one year the volume may not exceed 125% of the Annual Quantity and at no time will they be allowed to exceed the 5-Year Total.

EXPORTING COUNTY	ANNUAL QUANTITY	5-YEAR TOTAL
LIVINGSTON	200,000*	1,000,000
MACOMB	300,000	1,500,000
MONROE	200,000	1,000,000
OAKLAND	1,000,000	5,000,000
WASHTENAW	2,000,000	10,000,000
OTHER MICHIGAN COUNTIES COMBINED	500,000	2,500,000
TOTALS	4,200,000	21,000,000

*Quantity is based on historical importation.
Quantities listed are in gate cubic yards.

Import volumes will be monitored and if any county exceeds its Annual Quantity, it will be notified of this exceedance. If volumes exceed 125% of the Annual Quantity for any one-year, the exporting county will be notified that its volumes will be tracked quarterly for the next year. If the totals for that next year approach the Annual Quantity, the landfills and the exporting county will be notified that acceptance of the county's waste may be prohibited. Once 125% of the Annual Quantity has been exceeded, the landfill(s) will be directed to no longer accept waste from that specific county.

In regards to importing from “other counties,” Wayne County will accept waste from all other counties in Michigan as long as their combined total does not exceed an average of 500,000 gate cubic yards per year over a 5-year period. No single county may export more than 100,000 gcy per year to Wayne County unless they have been specifically authorized and provide a reciprocal agreement.

Before a landfill can accept household municipal waste from any community outside of Wayne County, the landfill must first receive certification (on a form provided by Wayne County) that the municipality is in compliance with the recycling goals of the Wayne County Solid Waste Management Plan and provide that certification to Wayne County.** Should Wayne County determine that a municipality no longer meets the recycling goals of the Plan, the municipality will be notified and allowed two weeks to provide explanation as to why it should be allowed to continue disposing waste in Wayne County. At the determination of the Director of the LRMD that the municipality has not provided adequate rationale to support their position, disposal of their waste in Wayne County landfills will not be allowed. Once the decision has been made, Wayne County landfills and the municipality will be notified that after two weeks, the landfills will no longer be allowed to accept that community’s waste.

The volumes identified in the preceding table are exporting counties’ waste quantities that are authorized for disposal directly at solid waste landfills located within Wayne County. Additional volumes are authorized for disposal at one of the licensed waste to energy incinerators located within Wayne County, provided these facilities have additional operating permit capacity. Prior to importation of any waste into one of the Wayne County waste to energy incinerators, Wayne County must be notified. In addition, all quantities imported must be reported annually.

** Wayne County encourages all municipalities to offer curbside recycling. However, communities will meet Wayne County’s recycling goals if they provide reasonable access to a recycling drop-off center to all residents of the community. Reasonable access shall be considered as having a drop-off center within a 10 mile radius. The certification form can be found in Appendix I.

EXPORTATION OF WASTE FROM WAYNE COUNTY

Wayne County will continue to authorize exportation of waste to all counties in Michigan as long as the receiving County has authorized importation of waste from Wayne County. This exportation must comply with any applicable import restrictions imposed by the receiving County. The table below identifies those Counties that have provided specific authorization for importation of waste from Wayne County and the amount they have authorized.

IMPORTING COUNTY	DAILY QUANTITY	ANNUAL QUANTITY
MACOMB		900,000 gcy**
MONROE	5,000 gcy/day*	
OAKLAND		1,000,000 gcy
WASHTENAW		2,000,000 gcy

* Total volume of waste allowed to be imported from all Counties

** Total volume authorized for Pine Tree Acres landfill

This list only identifies those that historically have received waste from Wayne County and is not necessarily all inclusive of those Counties that may have authorized disposal of Wayne County waste. If exportation of Wayne County waste is anticipated to a county not listed above, the receiving county should be contacted to verify the acceptability and for determination of any limitations or restrictions.

SOLID WASTE DISPOSAL AREAS

The following charts and Table 11 identify the names of existing disposal areas that will be utilized to provide the required capacity and management needs for the solid waste generated within Wayne County for the next five to ten years. Pages A3 through A57 in Appendix A contain facility descriptions of the solid waste disposal facilities that are located within Wayne County and the disposal facilities located outside Wayne County that will be used by Wayne County for the planning period. Additional facilities within Wayne 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 for disposal in other counties outside Wayne County, those facilities may only be used if the receiving county authorizes such import. Facilities outside of Michigan may also be used if legally available for such use.

Wayne County Landfills

FACILITY NAME	SITE ADDRESS	COMMUNITY	FACILITY TYPE
Carleton Farms	28800 Clark Road	Sumpter Twp.	Type II & Monofill
Edward C. Levy Co.	21280 Pennsylvania	Taylor	Type III
Ford Allen Park Clay Mine	17005 Oakwood Blvd.	Allen Park	Type II
Glendale Landfill (City of Livonia)	12973 Glendale Ave.	Livonia	Type III
Huron Monofill -CWCSA	28200 S. Huron Road	Huron Twp.	Monofill
Countywide Landfill	1650 W. Jefferson	Gibraltar	Type III
Riverview Land Preserve	20863 Grange Road	Riverview	Type II
Sauk Trail Hills	5011 S. Lilley Rd.	Canton	Type II
Sibley Quarry, Detroit Edison	502 Quarry Rd.	Trenton	Monofill
Woodland Meadows RDF	5900 Hannan Road	VanBuren Twp.	Type II

Non-Wayne County Landfills

FACILITY NAME	SITE ADDRESS	COMMUNITY	COUNTY	FACILITY TYPE
Citizens Disposal	2361 W. Grand Blanc Rd.	Grand Blanc	Genesee	Type II
Philip McGill Road Landfill	3895 McGill Road	Jackson	Jackson	Type II
Adrian Landfill	1970 North Ogden Hwy.	Adrian	Lenawee	Type II
Pine Tree Acres	36600 29 Mile Road	Lenox	Macomb	Type II
Allied-Rockwood Landfill	9450 U.S. Turnpike	Newport	Monroe	Type III
Resource Recovery-Matlin Road Landfill	200 Matlin Road	Carleton	Monroe	Type III
BFI-Vienna Junction Industrial Park	6749 South Dixie Highway	Erie	Monroe	Type II
Eagle Valley RDF	600 W. Silverbell Road	Orion Twp.	Oakland	Type II
Oakland Heights Development	2350 Brown Road	Auburn Hills	Oakland	Type II
Venice Park RDF	9536 Lennon	Lennon	Shiawasee	Type II & Type III
Arbor Hills Landfill & MRF	10690 Six Mile Road	Salem Twp.	Washtenaw	Type II

Table 11
Wayne County
Transfer Stations and Processing Facilities

MAP ID	FACILITY NAME	FACILITY ADDRESS	COMMUNITY	FACILITY TYPE/STATUS	PREVIOUS APPROVED NAMES
1	American Waste Oil	44141 Yost	Van Buren Twp.	Type A Transfer Station/Open	
3	City Disposal Systems, Inc.	1550 Harper	Detroit	Type A Transfer Station/Open	
5	CWCSA	4901 S. Inkster	Dearborn Heights	Type A Transfer Station/Open	
20	Onyx Transfer	3051 Schaefer	Dearborn	Type A Transfer Station/Open	Laidlaw/Schaefer Rd. Transfer/BFI Dbn.
6	Dearborn Transfer Station	2651 Greenfield	Dearborn	Type A Transfer Station/Open	
7	Detroit Transfer and Recycling	12001 Mack Avenue	Detroit	Type A Transfer Station/Open	WMI - Detroit North Transfer
12	Hamtramck	9600 Buffalo	Hamtramck	Type B Transfer Station/Open	
13	Inkster, City of	26900 Princeton	Inkster	Type B Transfer Station/Open	
14	Lincoln Park, City of	500 Southfield Rd.	Lincoln Park	Type B Transfer Station/Open	
15	Livonia, City of	32000 Glendale	Livonia	Type B Transfer Station/Open	
16	Markwell	15435 Martinsville Rd.	Van Buren Twp.	Type B Transfer Station/Open	
17	Metropolitan Transfer Center	6451 East McNichols	Detroit	Type A Transfer Station/Open	
19	Northville, City of	650 Doheny	Northville	Type B Transfer Station/Open	
21	Plymouth, City of	1231 Goldsmith	Plymouth	Type B Transfer Station/Open	
22	River Rouge, City of	5 Marion	River Rouge	Type B Transfer Station/Open	
23	Romulus, City of	34100 Goddard Rd.	Romulus	Type B Transfer Station/Open	
26	Southfield Yard, City of Detroit	12255 Southfield Road	Detroit	Type A Transfer Station/Open	
27	Southgate, City of	14719 Schafer Ct.	Southgate	Type B Transfer Station/Open	
28	Taylor, City of	16300 Racho Rd.	Taylor	Type B Transfer Station/Open	
30	Trenton, City of	1801 Van Horn	Trenton	Type A Transfer Station/Open	
32	Waste Mgmt Livonia	32000 Glendale	Livonia	Type A Transfer Station/Open	
33	Westland, City of	37137 Marquette	Westland	Type B Transfer Station/Open	
34	Woodhaven, City	21840 Van Horn	Woodhaven	Type B Transfer Station/Open	
35	Wyandotte, City of	2065 Biddle	Wyandotte	Type B Transfer Station/Open	
2	Progressive Sweeping	12564 Inkster	Redford	Type A Transfer Station/Closed	BFI Redford
4	Waste Management Transfer	5980 Inkster Rd	Romulus	Type A Transfer Station/Closed	Bestway Recycling, Inc., & City Env'l.
25	Detroit Energy and Recycling	2660 East Grand Boulevard	Detroit	Type A T.S. & Proc. Fac./ Closed	Circle Recycling, S&S
9	Dinvorno Transfer and Processing	4600 East Nevada	Detroit	Type A T.S. & Proc. Fac./ Open	
18	New Center Recycling	1331 Holden Avenue	Detroit	Type A T.S. & Proc. Fac./ Open	Session Transfer & Processing
24	S & J	1900 West Pleasant Ave.	River Rouge	Type A T.S. & Proc. Fac./ Open	
8	Detroit Transfer and Recycling	12001 Mack Avenue	Detroit	Processing Facility/Closed	WMI - Detroit North Processing
11	GDRRA	5700 Russell	Detroit	Processing Facility/Open	
10	Michigan Disposal Waste Treatment	49350 N. I-94 Service Dr.	Belleville	Processing Facility/Open	
28	Taylor Recycling	8767 Holland	Taylor	Processing Facility/Open	
31	USL City Environmental	1923 Frederick Street	Detroit	Processing Facility/Open	City Disposal Systems Processing

SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION

Although both public and private enterprises provide solid waste collection and transportation, the majority of the communities within Wayne County contract with private haulers. Table 7 on page 24 shows each community and their current waste collection service provider. This collection and transportation system has proved to be very capable of handling the volumes generated in Wayne County, and in fact private disposal companies are always eager to privatize the hauling in communities that currently haul their own waste.

Commercial and industrial wastes are handled by the generators either directly or through contracted services with one of the many waste hauling companies within Wayne County or adjacent Counties.

RESOURCE CONSERVATION EFFORTS

In Wayne County's original Solid Waste Management Plan, resource conservation strategies were investigated. The results of those previous investigations still hold true today. For any meaningful and effective resource conservation to take place there must be mandated and funded programs from the State and Federal Governments. Wayne County is not structured to deal effectively in this regard, and therefore is not assigning a value to the amount of waste diverted from landfills.

The following section, however, describes specific resource recovery programs in place that will continue to aid Wayne County in diverting waste from the landfills.

Waste Reduction, Recycling, and Composting Programs

A. Volume Reduction Techniques

1. Efforts proposed to reduce physical volume of waste being landfilled.

The techniques available to physically reduce the volume of landfilled waste are already successfully employed at Wayne County disposal areas. The combustion of waste at waste-to-energy incinerators reduces the physical volume of waste greater than 75%. The disposal of waste in landfills involves innovative operating techniques, such as compaction, to mechanically reduce its volume. These methods of volume reduction benefit the facilities for both practical and financial reasons.

Since volume reduction is practiced voluntarily and because technologies change and equipment may need replacing, it is not this plan update's intention to limit the techniques to only what is listed. Persons within Wayne County are encouraged to use the technique that provides the most efficient and practical volume reduction for their needs.

2. Estimated amount of space saved by each technique used.

Waste-to-energy facilities' volume reduction data for the three year period of 1995 – 1998 shows that greater than 12,000,000 bank cubic yards of landfill space was saved during this period. Assuming this annual volume reduction benefit continues to be achieved in the future, greater than 30,000,000 bank cubic yards of landfill space will be saved over the next 10 years.

Local landfill operators report that innovative techniques, such as leachate recirculation, could achieve accelerated decomposition and/or increased densities approaching a 10% space savings; projected landfill space savings could exceed 4,500,000 bank cubic yards over a ten-year period.

Collectively these available volume reduction techniques could potentially defer or save greater than 35,000,000 bank cubic yards of landfill space thus greatly extending the lives of existing landfills.

B. Overview of Resource Recovery Programs

1. Opportunities available for recycling and composting in Wayne County.

Recycling and collection of yard clippings are feasible in Wayne County. 41 of the 43 municipalities within Wayne County currently offer single family residences the service of curbside collections and/or drop-off centers for recyclables and yard clippings.

Thirty municipalities offer weekly, 2 municipalities offer biweekly, and 1 municipality offers bimonthly curbside pickup of recyclables. 27 municipalities offer drop-off recycling centers. Yard clippings are collected curbside by 37 municipalities weekly, 2 municipalities biweekly, and 1 municipality monthly. One municipality offers curbside pickup of recyclables and yard clippings if the residents call and request it, but they do offer a drop-off center.

2. Types and volumes of materials available in the waste stream.

The types and volume of residential waste generated in Wayne County that is being recycled is detailed in Tables 12 and 5 respectively. Based on the data in these tables which has been collected from the local municipalities, the average single family household recycles approximately 6 percent of its generated waste through curbside and/or drop-off programs. According to the U.S. EPA, approximately 60 percent of the residential waste generated could be recycled.* This suggests that Wayne County residents are recycling 10 percent of the material that is available for recycling. Because of Michigan's "Bottle Bill", however, the recycling rate may actually be as high as 20 percent.

These same tables show that within local communities, the average family household composts approximately 9 percent of its annual waste generated. Again, the EPA suggests that 13 percent of the residential waste stream is available to be composted. Wayne County, then, is doing very well by composting approximately 70 percent of the available compostable material.

3. Impediments to recycling or composting and recommendations for minimizing the impediments.

The high cost of recycling relative to the cost of municipal waste disposal coupled with fluctuating market demands has deterred more aggressive efforts. Increased participation in recycling programs could help to lower the cost. However, to achieve this, additional funding and education is needed. Multi-family dwellings and commercial and industrial establishments lack incentives to take a more proactive role in recycling.

A number of commercial sites that have attempted to operate compost facilities within Wayne County have failed due to unmanageable volumes and odor problems. Suitable sized land areas, required for optimal composting, are difficult to obtain for this specific use. As a result, there are few options in Wayne County for commercial composting. Increased educational efforts can be implemented to focus on minimizing the volume of yard waste requiring handling.

* USEPA'S 1998 national average waste generation and characterization profile suggests that 60 percent of residential waste material (i.e. paper, paperboard, glass, metal and plastics) is potentially recyclable and 13 percent (yard waste and trimmings) is potentially compostable.

As discussed on page 29, Wayne County recognizes the problems associated with commercial composting. For long-term solutions, Wayne County supports changes to the current state regulations that prohibit land disposal of yard clippings. Wayne County believes that a heightened awareness of the inefficiencies of yard clippings disposal could lead to supporting regulations that will allow yard clippings to be disposed of at waste-to-energy incinerators and landfills that have an approved gas collection and energy recovery program.

4. Potential benefits of recycling and composting programs.

The benefits of recycling and composting include saved landfill space, as well as the natural resources and energy saved from reduced production of new materials. Recycling and backyard composting are also easy, effective ways for the citizens to practice environmental responsibility.

5. Feasibility of source separation of potentially hazardous components.

Separation of potentially hazardous components is somewhat feasible. Although the county does not currently have a program for household hazardous waste collection, several of the communities offer their residents annual household hazardous waste collection days.

C. Recycling, Composting, and Source Separation of Hazardous Materials

The following Tables 12, 13, and 14 detail the existing programs for municipal recycling, municipal composting, and municipal household hazardous waste collection services respectively. The Wayne County Department of Environment is developing an on-line materials exchange program that, if successful, will help to reduce the amount of hazardous material entering the waste stream. In addition, the Wayne County Department of Environment's various Divisions have a mercury reduction program in place with the goal of reducing the release of mercury into the environment.

The Land Resource Management Division (LRMD) has identified a list of mercury recyclers in the area and the mercury containing products that they recycle. LRMD is also encouraging all communities hosting household hazardous waste collections to include the acceptance of mercury-containing products for recycling. Efforts are also being made to develop countywide specifications for purchasing mercury-free fluorescent bulbs for all Wayne County buildings. Finally, LRMD hopes to work with local businesses to arrange area-wide drop-off stations for the collection of mercury-containing thermostats and thermometers.

The Air Quality Management Division (AQMD) has developed a work plan with two goals. The first goal involves developing an educational outreach program aimed at contractors licensed to do business in Wayne County. This program will identify the contractors, as well as the trade associations, and develop an informational package

intended to educate this specific group as to the environmental problems with mercury, available substitutes for mercury components currently used, (thermostats, mercury switches, relays, etc.), proper disposal methods, and approved recyclers or disposal sites. The second goal involves developing an educational outreach program aimed at automobile salvage yards in Wayne County. This program will identify the sources within the county, as well as the trade associations, and develop an informational package intended to educate this specific group as to the environmental problems with mercury, the necessity of removing and recycling mercury components from junk autos, identifying the components that contain mercury, proper recycling and/or disposal methods, and approved recyclers or disposal sites.

The Compliance and Public Affairs Division (CPA) has created a library of public education materials for public distribution and has developed a strategy to outreach identified stakeholder groups in educational institutions and coordinate pollution prevention efforts to recycle and replace use of mercury. CPA is also designing a public relations and media campaign to promote pollution prevention messages to encourage recycling and reduction of use of mercury-laden products.

The Division of Public Works (DPW) is also involved and has developed two goals. The first goal is to promote the MDEQ approved Mercury Reduction Plan (MRP) for point discharges. The DPW will review mercury-monitoring data quarterly for the Downriver system and sample potential sources. Their second goal is to outreach to facilities to increase awareness of the mercury problem in Michigan and promote mercury pollution prevention.

Wayne County encourages all waste generators to explore additional means to increase resource recovery.

TABLE 12
Municipal Recycling Collection

Service Area	Public/ Private	Recycling Vendor	Collection Point (a)	Collection Frequency (b)	Materials Collected (d)	Additional Materials
ALLEN PARK	Private	Painter & Ruthenberg	c,d	b	b,c,a,e,f,d	used motor oil
BELLEVILLE	Private	BFI	c	w	a,b,d,e,f	n/a
BROWNSTOWN TWP	Private	Waste Management	d	n/a	a,b,e,f	n/a
CANTON TWP	Private	Canton Waste Recycling	c,d	w	a,b,c,d,e,f	batteries, paint
DEARBORN	Private	Waste Management	c,d	w	a,b,d,e,f	n/a
DEARBORN HEIGHTS	Private	Painter & Ruthenberg	c,d	w	a,b,d,e,f	batteries
DETROIT	Public	Municipal Crew	d	n/a	a,b,e,f	n/a
ECORSE	no program	City Disposal	no program	no program	no program	no program
FLAT ROCK	Private	City Disposal	c	w	a,b,c,e,f	n/a
GARDEN CITY	Private	Painter & Ruthenberg	c,d	w	a,b,e,f	n/a
GIBRALTAR	Public	Abcor	c	bm	d,e,f	n/a
GROSSE ILE	Private	Abcor	c	w	a,b,d,e,f	n/a
GROSSE POINTE	Private	Tringali Sanitation	c	w	a,b,e,f	batteries
GROSSE POINTE FARMS	Private	Tringali Sanitation	c,d	w	a,b,d,e,f	batteries
GROSSE POINTE PARK	Private	BFI	c	w	a,b,e,f	n/a
GROSSE POINTE SHORES	Private	Tringali Sanitation	c	w	a,b,e,f	n/a
GROSSE POINTE WOODS	Private	Waste Management	c	w	a,b,e,f	batteries
HAMTRAMCK	Public	Municipal Crew	d	n/a	n/a	n/a
HARPER WOODS	Private	Waste Management	c	w	a,b,e,f	n/a
HIGHLAND PARK	no program	Municipal Crew	no program	no program	no program	no program
HURON TWP	Private	City Disposal	c,d	w	a,b,c,d,e,f	oil, batteries, anti-freeze
INKSTER	Private	Painter & Ruthenberg	c,d	w	a,b,e,f	n/a
LINCOLN PARK	Private	City Disposal	d	n/a	a,b,e,f	n/a
LIVONIA	Private	Waste Management	c,d	w	a,b,c,d,e,f	oil, batteries, anti-freeze
MELVINDALE	Private	Waste Management	c,d	w	a,b,e,f	n/a
NORTHVILLE	Private	Painter & Ruthenberg	c,d	w	a,b,c,e,f	oil
NORTHVILLE TWP	Private	Painter & Ruthenberg	c	w	a,b,c,d,e,f	aerosol cans, batteries
PLYMOUTH	Private	Painter & Ruthenberg	c,d	w	a,b,d,e,f	n/a
PLYMOUTH TWP	Private	Waste Management	c,d	w	a,b,c,d,e,f	batteries
REDFORD TWP	Private	BFI	c	w	a,b,e,f	n/a
RIVER ROUGE	Private	Waste Management	d	n/a	a,b,e,f	n/a
RIVERVIEW	Private	Waste Management	d	n/a	a,b,c,d,e,f	oil, batteries
ROCKWOOD	Private	Waste Management	c	w	a,b,e,f	n/a
ROMULUS	Private	City Disposal	c	w	a,b,e,f	n/a
SOUTHGATE	Private	Waste Management	c,d	w	a,b,c,e,f	n/a
SUMMITER TWP	Private	City Disposal	d	n/a	a,b,c,e,f	tires
TAYLOR	Private	Waste Management	c	b	a,b,c,d,e,f	n/a
TRENTON	Public	Municipal Crew	d	n/a	a,b,e,f	tires, oil, batteries, appliances
VANBUREN TWP	Private	Waste Management	c,d	w	a,b,c,d,e,f	n/a
WAYNE	Private	Painter & Ruthenberg	c,d	w	a,b,e,f	n/a
WESTLAND	Private	Painter & Ruthenberg	c,d	w	a,b,e,f	n/a
WOODHAVEN	Private	Waste Management	c,d	w	a,b,c,e,f	n/a
WYANDOTTE	Private	Waste Management	c,d	w	a,b,c,d,e,f	n/a

a) c=curbside; d=dropoff

b) b=biweekly; bm=bimonthly; w=weekly

d) a=plastic; b=newspaper; c=cardboard; d=other paper; e=glass; f=metal

n/a=not applicable

TABLE 13
MUNICIPAL YARDWASTE COLLECTION SERVICES

MUNICIPALITY	WASTE HAULER	COLLECTION FREQUENCY
ALLEN PARK	Painter & Ruthenberg	weekly
BELLEVILLE	BFI	weekly
BROWNSTOWN TWP	Waste Management	weekly
CANTON TWP	Canton Waste Recycling	weekly
DEARBORN	Waste Management	weekly
DEARBORN HEIGHTS	Painter & Ruthenberg	weekly
DETROIT	Municipal Crew	monthly
ECORSE	Waste Management	weekly
FLAT ROCK	Waste Management	weekly
GARDEN CITY	Painter & Ruthenberg	weekly
GIBRALTAR	ABCOR	weekly
GROSSE ILE	ABCOR	weekly
GROSSE POINTE	Municipal Crew	weekly
GROSSE POINTE FARMS	Municipal Crew	weekly
GROSSE POINTE PARK	BFI	weekly
GROSSE POINTE SHORES	Municipal Crew	weekly
GROSSE POINTE WOODS	Waste Management	weekly
HAMTRAMCK	Municipal Crew	weekly
HARPER WOODS	Waste Management	weekly
HIGHLAND PARK	Municipal Crew	every other week
HURON TWP	Waste Management	weekly
INKSTER	Waste Management	every other week
LINCOLN PARK	Waste Management	weekly
LIVONIA	Waste Management	weekly
MELVINDALE	Waste Management	weekly
NORTHVILLE	Painter & Ruthenberg	weekly
NORTHVILLE TWP	Painter & Ruthenberg	weekly
PLYMOUTH	Painter & Ruthenberg	weekly
PLYMOUTH TWP	Waste Management	weekly
REDFORD TWP	BFI	weekly
RIVER ROUGE	Waste Management	drop-off
RIVERVIEW	Waste Management	weekly
ROCKWOOD	Waste Management	weekly
ROMULUS	Waste Management	weekly
SOUTHGATE	Waste Management	weekly
SUMPTER TWP	Waste Management	drop-off
TAYLOR	Waste Management	weekly
TRENTON	Municipal Crew	weekly
VANBUREN TWP	Waste Management	weekly
WAYNE	Painter & Ruthenberg	weekly
WESTLAND	Painter & Ruthenberg	weekly
WOODHAVEN	Waste Management	weekly
WYANDOTTE	Waste Management	weekly

TABLE 14
MUNICIPAL HOUSEHOLD HAZARDOUS WASTE COLLECTION SERVICES

MUNICIPALITY	HHW COLLECTION FACILITATOR	HHW COLLECTION FREQUENCY
ALLEN PARK	Riverview Land Preserve	annually
BELLEVILLE	n/a	n/a
BROWNSTOWN TWP	Riverview Land Preserve	annually
CANTON TWP	Sauk Trail Hills	annually
DEARBORN	City of Dearborn	annually
DEARBORN HEIGHTS	CWCSA	annually
DETROIT	City Environmental	scheduled appointments and events
ECORSE	n/a	n/a
FLAT ROCK	City Environmental	twice per year
GARDEN CITY	CWCSA	annually
GIBRALTAR	n/a	n/a
GROSSE ILE	n/a	n/a
GROSSE POINTE	Tringali Sanitation	rotates*
GROSSE POINTE FARMS	Tringali Sanitation	rotates*
GROSSE POINTE PARK	Tringali Sanitation	rotates*
GROSSE POINTE SHORES	Tringali Sanitation	rotates*
GROSSE POINTE WOODS	Waste Management	twice per year
HAMTRAMCK	n/a	n/a
HARPER WOODS	Tringali Sanitation	rotates*
HIGHLAND PARK	n/a	n/a
HURON TWP	n/a	n/a
INKSTER	CWCSA	annually
LINCOLN PARK	n/a	n/a
LIVONIA	Waste Management	annually
MELVINDALE	Riverview Land Preserve	annually
NORTHVILLE	Painter & Ruthenberg	annually
NORTHVILLE TWP	Painter & Ruthenberg	annually
PLYMOUTH	n/a	n/a
PLYMOUTH TWP	Waste Management	annually
REDFORD TWP	City Environmental	scheduled appointments and events
RIVER ROUGE	n/a	n/a
RIVERVIEW	Riverview Land Preserve	annually
ROCKWOOD	n/a	n/a
ROMULUS	n/a	n/a
SOUTHGATE	Riverview Land Preserve	annually
SUMPTER TWP	n/a	n/a
TAYLOR	Midwestern Sanitation	annually
TRENTON	Riverview Land Preserve	twice per year
VANBUREN TWP	n/a	n/a
WAYNE	CWCSA	annually
WESTLAND	CWCSA	annually
WOODHAVEN	Riverview Land Preserve	annually
WYANDOTTE	Riverview Land Preserve	annually

* Rotates annually between the Pointes and Harper Woods

n/a=not applicable

Identification of Resource Recovery Management Entities

Wayne County encourages a multi-faceted approach to resource recovery throughout the County. Public, private, and non-profit agencies all play a role in resource recovery programs.

The Wayne County Department of Environment's Land Resource Management Division (LRMD) manages the public outreach and education for recycling, composting and other resource recovery programs such as the mercury reduction program discussed on pages 51-52 of this Plan. The LRMD also manages the office paper recycling program for the Wayne County government offices.

The cities and/or townships within Wayne County manage their respective recycling and composting programs. Recycling programs, either curbside pickup or recycling drop-off centers, are available in 41 of the 43 communities. Additionally, yard clippings are picked up at curbside in 37 communities.

PROJECTED DIVERSION RATES

The following Table 15 estimates the annual amount of solid waste which is expected to be diverted from landfills and incinerators as a result of the current resource recovery programs and in five and ten years. Data for 1998 and 1999 were obtained from the annual Municipality Waste Stream reports submitted to the Land Resource Management Division. Projected rates for 2000, 2005, and 2010 were formulated using a SEMCOG population study, and calculating pounds per person per day, with an increase above 1999 rates of 2%, 7%, and 12% respectively. Specific populations from the SEMCOG study can be found in Table 10 on page 30. While the Table 15 recycling rates may not appear to be increasing at the rates stated, this is a result of a projected decrease in population for Wayne County.

TABLE 15
PROJECTED DIVERSION TOTALS THROUGH RECYCLING RESIDENTIAL WASTE

Collected Material	Annual Tons Diverted*			
	1999	2000	2005	2010
TOTAL PLASTICS:	33,421	33,640	34,761	35,984
NEWSPAPER:	46,227	46,166	47,724	49,224
CORRUGATED CONTAINERS:	1002	787	824	864
TOTAL OTHER PAPER:	969	786	822	860
TOTAL GLASS:	44,997	44,991	46,505	48,154
TOTAL METAL:	41,839	41,871	43,268	44,801
Total Material:	168,455	168,241	173,904	179,887

*2000, 2005, 2010 are increased 1999 rates by 2%, 7%, and 12% respectively, and is based on current/projected populations in Wayne County.

Educational and Informational Programs

Wayne County provides a variety of educational and informational programs regarding the various components of the solid waste management system. These programs are offered to provide communication that results in the proper handling of solid waste and to provide assistance with the various entities who participate in such programs as waste reduction and waste recovery. These programs are of fundamental importance to the success of the Plan.

Recycling: The Wayne County D.O.E. Land Resource Management Division (LRMD) provides educational and informational material to the general public, school groups, and businesses and industry within Wayne County. This is accomplished through exhibits at pertinent community events, presentations to local schools, and with informational packets such as flyers and brochures. In addition, LRMD provides information and support to local business and industry intending to start recycling programs. LRMD is involved in promoting recycling through the Wayne County (www.waynecounty.com) and D.O.E. (www.wcdoe.org) web sites and through traditional delivery mediums. LRMD also participates in state and/or national recycling events such as the annual America Recycles Day campaign.

LRMD is also planning to introduce a program that provides awards and public recognition for Wayne County businesses and industry that achieve measurable recycling goals.

An office paper-recycling program for all Wayne County Government buildings is in place and will be expanded by the LRMD to continue and encourage further recycling efforts.

Composting: The Wayne County D.O.E. LRMD provides an educational program for backyard composting by offering the Master Composting Course twice per year, in spring and fall. The course is an opportunity for Wayne County citizens to take a six-week, one evening per week class with a final exam. Upon completion of the final exam and a minimum of eight hours of volunteer work related to composting, each participant receives a certificate as a Master Composter.

Other informational material that encourages backyard composting and grass-cycling is available through the LRMD. In addition, LRMD takes part in local community events via exhibits and demonstrations outlining the benefits of composting.

Household Hazardous Waste: The Wayne County D.O.E. LRMD provides information to all Wayne County residents who request methods and locations for proper disposal of household hazardous waste. This is done via phone and through informational materials such as flyers and brochures. In addition, the LRMD promotes awareness and participation in local community household hazardous waste collection events. For information regarding the proper disposal of household hazardous waste, contact the LRMD at 734-326-3936. Additionally, the D.O.E. maintains a 24-Hour Hotline number for emergencies and for directing inquiries to the proper D.O.E. Division. The Hotline number is 1-888-223-2363.

Most of the 43 municipalities within Wayne County inform their citizens of upcoming Household Hazardous Waste events via a community newsletter, local newspaper notice, or local cable.

Resource Conservation: The Wayne County D.O.E. co-sponsors and participates in the annual Great Lakes Region Waste Reduction and Energy Efficiency Workshop. Additionally, the LRMD conducts public outreach throughout Wayne County to promote waste reduction and pollution prevention.

Wayne County D.O.E. LRMD is developing an on-line materials exchange program for the businesses and citizens of Wayne County. The materials will include both commercial and household items that might otherwise be discarded and landfilled.

Mercury Reduction: The LRMD, in coordination with the D.O.E.'s overall mercury reduction effort, is working to prevent improper disposal of mercury-containing waste. This program will encourage the communities that offer HHW programs to include mercury-containing items in their collections (ie. thermometers, thermostats, batteries, etc.); identify locations of mercury recycling facilities; provide to communities, in the form of pamphlets, information about mercury such as what to do in the case of a spill, and the location of mercury drop-off sites. LRMD will also work with local merchants to coordinate thermometer and thermostat drop-off points and/or exchanges and will provide additional information to citizens and businesses on the selection of non-mercury containing items.

The communities within Wayne County provide recycling and information to their citizens in the form of newsletters and cable television announcements. Most communities also hold annual household hazardous waste collections for their residents.

Timetable for Selected System Implementation

This timetable is a guideline to implement new components of the Selected System. The Timeline gives a range of time in which the component will be implemented such as “2000-2002” or “On-going.” The timeline may be adjusted at a later date, if necessary.

TABLE 16

Management Components	Timeline
Implement Import Authorization	2001
Implement Export Authorization	2001
Data tracking to assess solid waste program performance including flow, collection, and transportation.	Quarterly/Annually/On-going
Initiate Education and Information Programs	2000-2002
Perform Public Education and Information Outreach	On-going
Resource Conservation Tracking (ie. waste reduction, recycling, & composting)	On-going

Facility Inclusion Process

All solid waste facilities located in Wayne County and regulated under Act 451 PA, 1994 Part 115 must be included within Wayne County's Solid Waste Management Plan. The following process is to be utilized for including facilities into the Plan.

Authorized Disposal Area Types

By the authorization of this plan, solid waste facilities may only be included in the plan if they meet the requirements set forth in the following Facility Inclusion Process. This process will be used for all solid waste facilities regulated under P.A. 451, Part 115 including license-exempt facilities.

Siting Criteria and Process

Wayne County has, in this plan, demonstrated well in excess of 10 years of currently sited disposal capacity. As a result, a formal State mandated siting criteria is not required and therefore will not be included in this plan.

In the event Wayne County drops below the 10 year disposal capacity, a siting mechanism in compliance with the requirements of Part 115 will be developed and included in the plan through the plan amendment process. This will occur before mandatory siting is required (having less than 66 months disposal capacity).

Wayne County has successfully sited more landfills than any other County in the State of Michigan through its Host Community Agreement siting process. This process has provided all of the disposal capacity available in Wayne County today. The continued use of this process has been authorized by the MDEQ until Wayne County's disposal capacity is reduced and a mandatory siting process is required. This plan amendment will therefore continue to allow new or expanded facilities to be included in the plan based on this process.

Solid Waste Disposal Facility Inclusion Process – (Host Community Approval)

During the term of this plan, or until a mandatory siting process is required by law, new or expanded solid waste disposal facilities must be included into the Plan through the Facility Inclusion Process. This process will operate under the direction of the nine member Facility Inclusion Committee (FIC). If formal action is taken at any FIC meeting, two thirds of the (9) committee members must be present. Approval of a proposal for inclusion into the Plan will require an affirmative vote by five committee members. The process for including facilities into the Plan will require the following conditions to be met:

1. The applicant requests an advisory analysis for the site from the Land Resource Management Division (LRMD) of Wayne County's Department of Environment. Once the advisory analysis is completed, copies will be sent to the applicant, the Host Community, and to potentially affected parties (a potentially affected party for these purposes will be any municipality (ies), residences, and businesses within ½ mile of the proposed facility).
2. Upon receipt of the advisory analysis, the applicant shall complete negotiations with the Host Community.
3. The applicant shall submit a request to Wayne County LRMD requesting inclusion in the SWMP including a detailed description of the facility and provide a draft of the Host Community Agreement.

Facility Inclusion Process

4. After receipt of the request for inclusion, staff of the LRMD will notify the Host Community and potentially affected parties to inform them of the request for inclusion. The municipality (ies) will be provided a copy of the application. Residences and businesses will be notified of a location that the application can be reviewed. The potentially affected parties will then have 30 days in which to provide written notification to the Facility Inclusion Committee (FIC) detailing any concerns they have regarding the proposed facility. They will also be informed of their right to attend the FIC meeting.
5. Two weeks after the FIC has received the potentially affected parties' concerns, a meeting will be held with the applicant, host community and potentially affected parties. The purpose of this meeting will be to allow the FIC to hear and ask questions about the proposal and to hear comments from the potentially affected party (ies). If, prior to the close of the meeting, the FIC determines that they need more time to fully understand the issues of the proposal, they may schedule a subsequent meeting and may request additional information from the applicant or from staff of Wayne County. This meeting, if needed, must be held within two weeks from the date of the original meeting. At the conclusion of the FIC meeting (either the initial or subsequent meeting if needed) the FIC will recommend inclusion of the facility into the Plan, or will provide a list of issues to the applicant that must be addressed to assure the concerns of Wayne County and/or the potentially affected parties are reasonably addressed.
6. The applicant and the host community will be responsible for addressing the issues identified by the FIC and modifying the proposal and/or Host Community Agreement as necessary.
7. When the applicant believes they have adequately addressed the concerns identified by the FIC, they will request a new meeting and will submit a revised proposal and Host Community Agreement to Wayne County LRMD. If this step is not completed within 9 months, the application will be considered new and the process will revert to step number 3.
8. After receipt of the revised proposal, staff of the LRMD will notify the Host Community and potentially affected parties of the revisions. Copies of this information will be forwarded to the affected municipalities. The previously notified residences and businesses will be notified and provided with a location that the revised application can be reviewed. The potentially affected parties will then have 30 days in which to provide written notification to the FIC detailing any concerns regarding the revised proposal.
9. A meeting of the FIC will be scheduled within two weeks after receipt of the comments from the potentially affected parties to allow a review of the new information and to consider any remaining comments. The applicant, the Host Community, and the potentially affected parties will be notified of the hearing date. At the end of the meeting the FIC will either determine that their concerns have been reasonably addressed and recommend inclusion of the facility, or will reject the application. If the application is rejected, the applicant may restart the process at step number 3 when appropriate changes have been made.

FACILITY INCLUSION COMMITTEE

It will be the responsibility of the Facility Inclusion Committee (FIC) to make decisions regarding the location of facilities within the County. The nine (9) FIC members are from the following organizations.

Two, non-solid waste industry members of the Solid Waste Planning/Implementation Committee;

Downriver Community Conference;

Conference of Western Wayne;

Greater Detroit Resource Recovery Authority;

Central Wayne County Sanitation Authority;

Director, Wayne County Department of Environment, or designee;

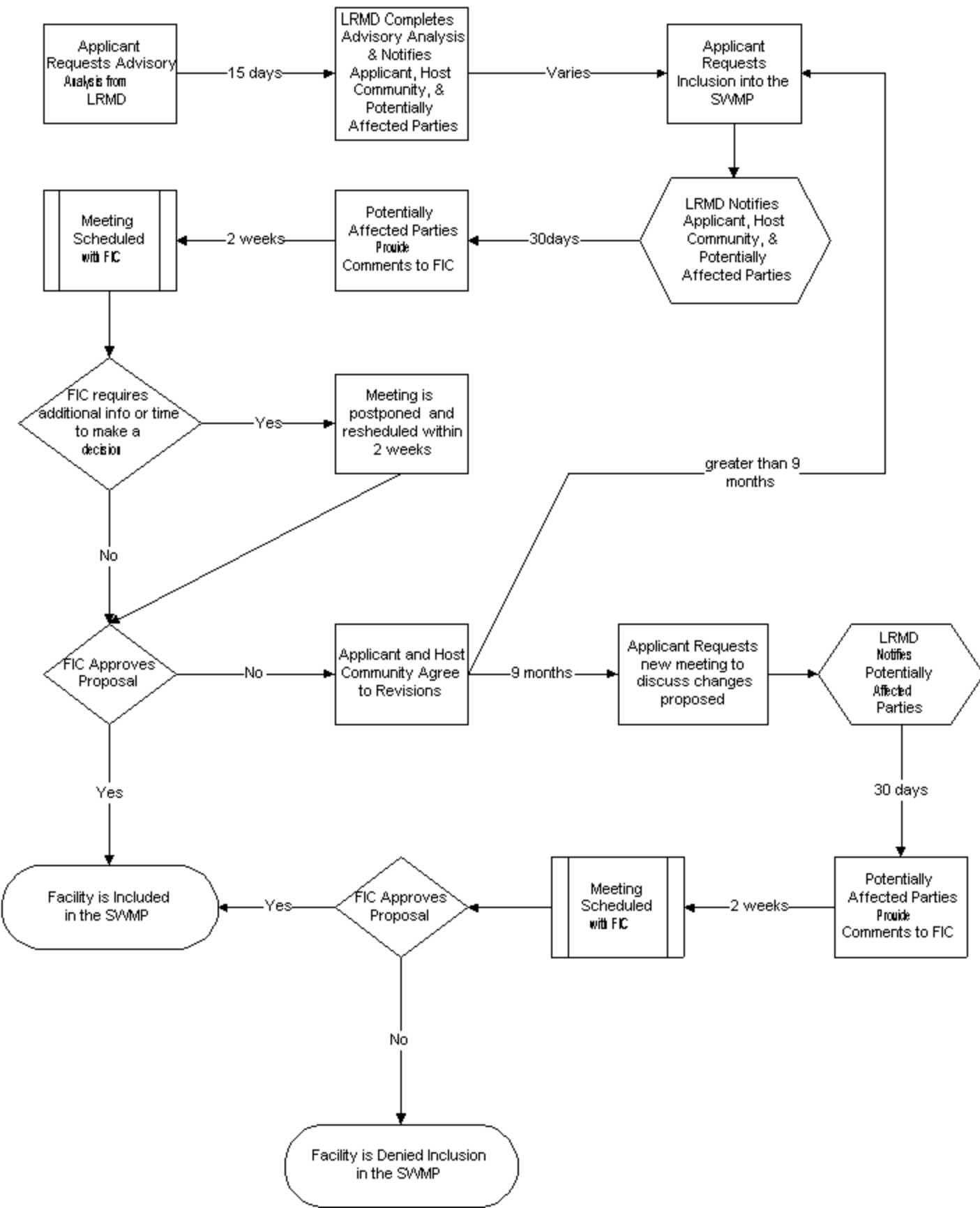
Director, Wayne County Department of Public Services, or designee; and

Director, Wayne County Department of Jobs and Economic Development, or designee.

The responsibilities of the FIC members will be to evaluate all proposals brought before them utilizing the following guidelines:

- All proposals shall have a Host Community Agreement that has been formally adopted by the local community;
- The applicant shall have submitted a complete application, which addresses all the items identified in the FIC committee submittal requirement document;
- Concerns of potentially affected parties will be evaluated by the FIC and if determined to be reasonable must be addressed by the applicant before approval is granted;
- The proposal shall be evaluated to determine if it addresses an identified need in regards to one of the components of the “Selected Management System” identified in Section III of the Solid Waste Management Plan (i.e. additional airspace, better waste transferring capabilities, new waste processing or recycling capabilities).

Facility Inclusion Process Flow Chart



Solid Waste Management Components

The Wayne County Executive and the Wayne County Commission have the ultimate responsibility for solid waste planning, implementation, and enforcement. These responsibilities are executed through the Wayne County Department of Environment, Land Resource Management Division.

Wayne County receives support for solid waste planning and management activities through the collection of tipping fees from the Type II landfills which is described in the Comprehensive User Fees Ordinance No. 95-456 (see Appendix F). The Land Resource Management Division, in conjunction with the Michigan Department of Environmental Quality, assumes responsibility for enforcing the environmental laws of the county and state. Specifically, Wayne County enforces the Wayne County Solid Waste Ordinance No 2000-654 (found in Appendix G) and Part 115 of Michigan's Natural Resources and Environmental Protection Act, P.A. 451 as amended.

The Land Resource Management Division employs solid waste inspectors, solid waste planners, an engineer, and a geologist whose technical capabilities are vital to solid waste management practices. The solid waste inspectors are responsible for inspecting the solid waste facilities for operational compliance. The program engineer reviews facility design documents and criteria and makes recommendations to the MDEQ regarding licensure of the sites. The program geologist monitors various geological aspects including ground water quality. Finally, the solid waste planning staff are responsible for enforcing aspects of the Plan relating to waste stream reporting and public outreach involving the preferred solid waste hierarchy.

The existing management system has proven to be effective for Wayne County and is expected to continue to be effective in the long term for implementation of the Plan.

A representative of the Southeast Michigan Council of Government (SEMCOG) is a member on the Wayne County Solid Waste Implementation Committee (SWIC) and has taken part in the approval of this Plan and will continue to take part in its implementation. As the Designated Solid Waste Planning Agency, the Wayne County Department of Environment will be continually involved with the monitoring and enforcement of the Plan. The Department's Land Resource Management Division will continue to work, as necessary, with the D.O.E. Air Quality Management Division, the Wayne County Department of Jobs and Economic Development, and SEMCOG to coordinate efforts to that end.

Identification of Responsible Parties

Wayne County Executive and Commission: The Wayne County Executive and Commission, by adoption of this solid waste plan and by the authority to adopt a countywide solid waste ordinance, have ultimate responsibility for its implementation. The Executive and Commission subsequently authorize the Wayne County Department of Environment to implement and enforce the Plan.

Wayne County Department of Environment (D.O.E.): The Land Resource Management Division (LRMD) of the Wayne County D.O.E. is responsible for the administrative coordination and enforcement of the County Solid Waste Program. The LRMD collects and analyzes solid waste disposal data and provides educational outreach programs and information to citizens and businesses. In addition, the LRMD conducts regulatory inspections of solid waste facilities and conducts complaint investigations.

Municipal Governments: The Plan promotes collaboration and partnerships with municipal governments. Wayne County and local governments share the plan objectives and work together to achieve success. The cities and townships, either individually or working together, may assume a financing, procurement, regulatory, and administrative role in arranging solid waste management services for their jurisdictions to comply with the Plan.

Waste Generators: All waste generators (residential, commercial, and industrial) will be encouraged to practice any or all of the following: separation of recyclables and compostables from mixed waste; arranging for transportation of recyclable/compostable materials to processing facilities for marketing; purchasing of goods made from environmentally preferable products; reduction in the amounts and toxicity of waste generated. In addition, all waste generators will be required to eliminate illegal dumping of wastes; and provide safe landfill or waste-to-energy disposal of remaining waste.

Solid Waste Management Industry: Public and private haulers and disposal facilities will be used throughout the County for materials collection, transportation, processing, and disposal. Annual and quarterly reports detailing service areas, quantities and types of materials collected are required to be submitted to the LRMD.

State of Michigan: The State of Michigan, through the Solid Waste Management Unit of the Department of Environmental Quality (MDEQ), is involved in the planning, implementation, and enforcement of the Wayne County Solid Waste Management Plan.

Resource Conservation:

Source or Waste Reduction
Product Reuse
Reduced Material Volume
Increased Product Lifetime
Decreased Consumption

Responsible Parties

DOE-LRMD, local communities, waste generators
DOE-LRMD, local communities, waste generators
DOE-LRMD, local communities, waste generators
DOE-LRMD, local communities, waste generators
DOE-LRMD, local communities, waste generators

Resource Recovery Programs:

Composting
Recycling
Energy Production

Public and private haulers and processors, DOE-LRMD
Public and private haulers and processors, DOE-LRMD
Public and private landfill owners/operators, DOE-LRMD

Volume Reduction Techniques: DOE-LRMD, local communities, waste generators, waste industry

Collection Processes: Public and private haulers and processors

Transportation: Public and private haulers and processors, waste generators,
Municipal governments

Disposal Areas:

Processing Plants
Incinerators
Transfer Stations
Sanitary Landfills

Public and private owners/operators, DOE-LRMD, MDEQ
Public and private owners/operators, DOE-LRMD, MDEQ
Public and private owners/operators, DOE-LRMD, MDEQ
Public and private owners/operators, DOE-LRMD, MDEQ

Ultimate Disposal Area Uses: MDEQ, DOE-LRMD, Public and private owners/operators

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

DOE-LRMD

Educational and**Informational Programs:**

DOE-LRMD, local communities, waste generators

Documentation of acceptance of responsibilities is contained in Appendix M.

Local Ordinances and Regulations Affecting Solid Waste Disposal

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

- X *1. Section 11538 (8) and rule 710 (3) of Part 115 prohibits enforcement of all County and local ordinances and regulations pertaining to solid waste disposal areas unless consistent with an approved Solid Waste Management Plan. Local regulations and ordinances intended to be part of this Plan must be specified below and the manner in which they will be applied described.*
- _____ *2. This plan recognizes and incorporates as enforceable the following specific provisions based on zoning ordinances:*
- _____ *3. This plan authorizes adoption and implementation of local regulations governing the following subjects by the indicated units of government without further authorization from or amendment to the Plan.*

Wayne County explicitly includes the following ordinance within its Solid Waste Management Plan:

Wayne County Solid Waste Ordinance: enables the County to protect the public health and land, air, water, and other natural resources; to supplement provisions of Part 115 of the Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and its Administrative Rules; to regulate specified solid waste management practices; to control the operations of solid waste facilities and prevent any adverse off-site effects of operation; to provide an enforceable mechanism for implementation of the Wayne County Solid Waste Plan; to prescribe the powers and duties of agencies; to provide for appeals; and to provide for penalties and remedies. (A copy of the ordinance can be found in Appendix G).

This Plan specifically requires that solid waste disposal facilities enter into a Host Community Agreement prior to seeking inclusion. The negotiation of these types of agreements allows host communities the opportunity to resolve all local ordinance issues. Wayne County authorizes all local municipal solid waste ordinances and regulations as enforceable provided that they are not in conflict with the goals of this Plan or Part 115 of PA 451 of 1994 and the requirements have been incorporated into the Host Community Agreement.

IV

CAPACITY CERTIFICATIONS

Every county with less than ten years of capacity identified in their Solid Waste Management Plan is required to annually prepare and submit to the MDEQ 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.

Wayne County currently has 10 active landfills, which accepted over 12 million cubic yards of waste for disposal in 1999. The table below identifies these facilities, their annual disposal volume in 1999 and their remaining capacity based on approved design.

	1999 Data			
Site	Current Airspace (bcy)	Remaining Life (years)	Disposal vol (gcy).	Volume converted to (bcy)
Allen Park Clay Mine	1,823,870	4	408,191	408,191
Carleton Farms-MSW	63,390,000	67	1,899,955	949,978
Countywide	3,800,000	15	250,000*	250,000
Huron Quarry	578,840	11	54,750*	54,750
Levy	2,721,500	9	318,671	318,671
Livonia	178,207	17	10,761	10,761
Riverview	13,380,000	19	1,374,648	687,324
Sauk Trails	23,637,817	12	4,088,532	2,044,266
Sibley Quarry	15,000,000	60	250,000	
Woodland Meadows	22,544,000	12	3,806,322	1,903,161
Totals used for calculations	131,876,027			6,627,102

$$131,876,027 \text{ bcy} \div 6,627,102 \text{ bcy/yr} = 19.9 \text{ years}$$

The total remaining life of Wayne County's landfills is **approximately 20 years**** based on the disposal capacities and utilization rates identified in 1999.

* These values have been estimated for purposes of calculating a remaining life since neither facility was accepting waste in 1999.

** To determine this value, the current airspace available was totaled for all landfills, which is in bank cubic yards, and was divided by the total disposal volume converted into bank cubic yards. Since two different waste types were combined, two different conversion factors to convert gate cubic yards (gcy) into bank cubic yards (bcy) were utilized. For simplicity a consistent conversion for type II waste at 2 gcy = 1 bcy and for type III landfills at 1 gcy = 1 bcy was assumed. This provides a conservative estimate since at most facilities, the conversion will generally be greater. The availability of this airspace to be used if other facilities were to close, was also evaluated. In developing the available life for Wayne County's solid waste landfills, the volume available at Sibley Quarry was not included since this is a very specialized landfill that generally would not be acceptable for waste other than coal ash and would have artificially inflated the remaining life.

APPENDICES

APPENDIX A

FACILITY DESCRIPTIONS

Facility Descriptions

The following table lists all solid waste disposal areas within Wayne County or to be used by Wayne County to meet its disposal needs for the planning period. The facility description sheets for these facilities, information on the closed landfills that will remain included in the Plan (pp. A 44 – A 46), and information regarding the facilities removed from the Plan as part of this update, can be found in Appendix A.

Facility Name & Location	Facility Type	Page Number
Wayne County Landfills		
Carleton Farms, Sumpter Twp., Wayne County	Type II Landfill/Ash Monofill	A 3
Countywide, Gibraltar, Wayne County	Type III Landfill	A 4
Edw. C. Levy, Taylor, Wayne County	Type III Landfill	A 5
Ford Allen Park Clay Mine, Allen Park, Wayne County	Type II Landfill	A 6
Huron Monofill, Huron Twp., Wayne County	Ash Monofill	A 7
Livonia Landfill, Livonia, Wayne County	Type III Landfill	A 8
Riverview Land Preserve, Riverview, Wayne County	Type II Landfill	A 9
Sauk Trail Hills, Canton, Wayne County	Type II Landfill	A 10
Sibley Quarry, Trenton, Wayne County	Type III Landfill	A 11
Woodland Meadows, Van Buren Twp., Wayne County	Type II Landfill	A 12
Wayne County Waste-to-Energy Facilities		
CWCSA, Dearborn Heights, Wayne County	Waste-to-Energy Facility	A 13
Greater Detroit Resource Recovery, Detroit, Wayne County	Waste-to-Energy Facility	A 14
Wayne County Type A Transfer Stations (> 200 yd3/day)		
American Waste Oil, Belleville, Wayne County	Type A Transfer Station	A 15
City Disposal Systems, Detroit, Wayne County	Type A Transfer Station	A 16
Dearborn Transfer, Dearborn, Wayne County	Type A Transfer Station	A 17
Detroit Transfer and Recycling, Detroit, Wayne County	Type A Transfer Station	A 18
Dinverno, Detroit, Wayne County	Type A Transfer Station and Processing Plant	A 19
Metropolitan Transfer Center, Detroit, Wayne County	Type A Transfer Station	A 25
New Center Recycling, Detroit, Wayne County	Type A Transfer Station and Processing Plant	A 26
Onyx Transfer, Dearborn, Wayne County	Type A Transfer Station	A 28
S&J, River Rouge, Wayne County	Type A Transfer Station and Processing Plant	A 32
Southfield Yard, Detroit, Wayne County	Type A Transfer Station	A 33
Trenton Transfer, Trenton, Wayne County	Type A Transfer Station	A 36
Waste Management – Livonia Yard, Livonia, Wayne County	Type A Transfer Station	A 37
Wayne County Type B Transfer Stations (< 200 yd3/day)		
Hamtramck Transfer, Hamtramck, Wayne County	Type B Transfer Station	A 20
Inkster Transfer, Inkster, Wayne County	Type B Transfer Station	A 21
Lincoln Park Transfer, Lincoln Park, Wayne County	Type B Transfer Station	A 22
Livonia Transfer, Livonia, Wayne County	Type B Transfer Station	A 23
Markwell Trucking, Belleville., Wayne County	Type B Transfer Station	A 24
Northville City Transfer, Northville, Wayne County	Type B Transfer Station	A 25
Plymouth City Transfer, Plymouth, Wayne County	Type B Transfer Station	A 29
River Rouge Transfer, River Rouge, Wayne County	Type B Transfer Station	A 30
Romulus Transfer, Romulus, Wayne County	Type B Transfer Station	A 31
Southgate Transfer, Southgate, Wayne County	Type B Transfer Station	A 34
Taylor Transfer, Taylor, Wayne County	Type B Transfer Station	A 35
Westland Transfer, Westland, Wayne County	Type B Transfer Station	A 38
Woodhaven Transfer, Woodhaven, Wayne County	Type B Transfer Station	A 39
Wyandotte Transfer, Wyandotte, Wayne County	Type B Transfer Station	A 40
Wayne County Processing Plants		
Michigan Disposal, Van Buren Twp., Wayne County	Processing Plant	A 41
Taylor Recycling, Taylor, Wayne County	Processing Plant	A 42
USL, City Environmental, Detroit, Wayne County	Processing Plant	A 43

Facility Descriptions

Facility Name & Location	Facility Type	Page Number
Out of County Landfills		
Citizens Disposal, Grand Blanc, Genesee County	Type II Landfill	A 47
McGill Rd. Landfill, Jackson, Jackson County	Type II Landfill	A 48
Adrian Landfill, Adrian, Lenawee County	Type II Landfill	A 49
Pine Tree Acres, Lenox Twp., Macomb County	Type II Landfill	A 50
Vienna Junction, Erie, Monroe County	Type II Landfill	A 51
Matlin Road Landfill, Carleton, Monroe County	Type III C&D Landfill	A 52
Rockwood Landfill, Newport, Monroe County	Type III Landfill	A 53
Oakland Heights Development, Auburn Hills, Oakland County	Type II Landfill	A 54
Eagle Valley RDF, Orion, Oakland County	Type II Landfill	A 55
Venice Park RDF, Lennon, Shiawassee County	Type II & III Landfill	A 56
Arbor Hills Landfill, Salem Township, Washtenaw County	Type II Landfill	A 57

The information within the facility description sheets on the following pages may conflict in some respects with the information in the body of this Plan. The information on the facility description sheets has been provided by the facilities and has not been verified by Wayne County. Volumes used within this plan for calculation of capacities and existing life have been verified by Wayne County and may not be reflected within the following pages.

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill and Ash Monofill

Facility Name: Carleton Farms

County: Wayne Location: Town: 4 S Range: 8 E Section(s): 36

City or Township: Sumpter Twp.

Address: 28800 Clark Rd. Sumpter Twp., MI 48111 Phone: (313) 654-3615

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: Carleton Farms Landfill, Inc.

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Asbestos, sludge

-

Site Size:

	<u>Landfill</u>	<u>Monofill</u>	
Total area of facility property:	<u>662.4</u>		acres
Total area sited for use	<u>662.4</u>		acres
Total area permitted:	<u>335.1</u>	<u>53.2</u>	acres
Operating:	<u>112.6</u>	<u>14.7</u>	acres
Not excavated:	<u>222.5</u>	<u>38.5</u>	acres
Current capacity:	<u>59,500,000</u>	<u>4,200,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> bank yds ³ *
Estimated lifetime:	<u>35</u>	<u>23</u>	years
Estimated days open per year:	<u>312</u>	<u>312</u>	days
Estimated yearly disposal volume:	<u>3,144,620</u>	<u>180,910</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> gate yds ³ *

(if applicable)

Annual energy production:

Landfill gas recovery projects:	<u>4</u>	<u>N/A</u>	megawatts
Waste-to-energy incinerators:	<u>N/A</u>	<u>N/A</u>	megawatts

2 gate yds³ (gcy) = 1 bank yds³ (bcy)

FACILITY DESCRIPTIONS

Facility Type: Type III Landfill

Facility Name: Countywide Landfill

County: Wayne Location: Town: 4 S Range: 10 E Section(s): 35

City or Township: Gibraltar

Address: 15701 Vreeland Rd. Trenton, MI 48183 Phone: (734) 285-1200 x 4135

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

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

☐ Public ☒ Private Owner: Gibraltar Land Company

Operating Status (check)

- ☒ open
- ☐ closed
- ☒ licensed **
- ☐ unlicensed
- ☐ construction permit
- ☐ open, but closure
- ☐ pending

Waste Types Received (check all that apply)

- ☐ residential
- ☐ commercial
- ☒ industrial
- ☒ construction & demolition
- ☐ contaminated soils
- ☐ special wastes *
- ☒ other: Debris pile at the Trenton plant, construction and demolition waste, trees and stumps, dredgings.

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

** Solid waste disposal area operating license issued by MDEQ on April 5, 1999.

Site Size:

Total area of facility property:	<u>167.9</u>	acres
Total area sited for use	<u>119.4</u>	acres
Total area permitted:	<u>119.4</u>	acres
Operating:	<u>43.9</u>	acres
Not excavated:	<u>75.5</u>	acres
Current capacity:	<u>3,800,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> bank yds ³ *
Estimated lifetime:	<u>7.17</u>	years
Estimated days open per year:	<u>312</u>	days
Estimated yearly disposal volume:	<u>530,000+</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> gate yds ³ *

(if applicable)

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

* 1:1 bank yds³ (bcy) & gate yds³ (gcy)

FACILITY DESCRIPTIONS

Facility Type: Type III Industrial Sanitary Landfill

Facility Name: Edw. C. Levy Co. Landfill

County: Wayne Location: Town: 3 S Range: 10 E Section(s): 34

City or Township: Taylor

Address: 21280 Pennsylvania Taylor, MI 48180 Phone: (313) 849-9246

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

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

☐ Public ☒ Private Owner: Edw. C. Levy Co.

Operating Status (check)

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

Waste Types Received (check all that apply)

- ☐ residential
- ☐ commercial
- ☒ industrial
- ☐ construction & demolition
- ☒ contaminated soils
- ☐ special wastes *
- ☒ other: Road sweepings, industrial wastes

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

-

Site Size:

Total area of facility property:	<u>84.59</u>	acres
Total area sited for use	<u>70.59</u>	acres
Total area permitted:	<u>70.59</u>	acres
Operating:	<u>70.59</u>	acres
Not excavated:	<u>N / A</u>	acres
Current capacity:	<u>2,721,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> bank yds ³ *
Estimated lifetime:	<u>9</u>	years
Estimated days open per year:	<u>312</u>	days
Estimated yearly disposal volume:	<u>300,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> gate yds ³ *

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

* 1:1 bank yds³ (bcy) & gate yds³ (gcy)

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill

Facility Name: Ford Allen Park Clay Mine Landfill

County: Wayne Location: Town: 2 S Range: 10 E Section(s): 25

City or Township: Allen Park

Address: 17005 Oakwood Allen Park, MI 48101 Phone: (313) 390-3209

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: Ford Motor Company

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Asbestos

-

Site Size:

Total area of facility property:	<u>243.35</u>	acres
Total area sited for use	<u>~ 154</u>	acres
Total area permitted:	<u>~ 154</u>	acres
Operating:	<u>19.91</u>	acres
Not excavated:	<u>36.36</u>	acres
Current capacity:	<u>2,036,150</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> bank yds ³ *
Estimated lifetime:	<u>25</u>	years
Estimated days open per year:	<u>312</u>	days
Estimated yearly disposal volume:	<u>149,237</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> gate yds ³ *

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

* 2 gate yds³ (gcy) = 1 bank yds³ (bcy)

FACILITY DESCRIPTIONS

Facility Type: Type II Ash Monofill

Facility Name: Huron Monofill (Central Wayne County Sanitation Authority)

County: Wayne Location: Town: 4 S Range: 9 E Section(s): 36

City or Township: Huron Twp.

Address: 28200 S. Huron Rd. Huron Twp., MI 48164 Phone: (313) 292-8877

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: CWCSA

Operating Status (check)

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

Waste Types Received (check all that apply)

- ☐ residential
☐ commercial
☐ industrial
☐ construction & demolition
☐ contaminated soils
☐ special wastes *
☒ other: MSW Incinerator Ash

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

-

Site Size:

Total area of facility property:	<u>37.8592</u>	acres
Total area sited for use	<u>15</u>	acres
Total area permitted:	<u>15</u>	acres
Operating:	<u>~ 7</u>	acres
Not excavated:	<u>N / A</u>	acres
Current capacity:	<u>592,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> bank yds ³
Estimated lifetime:	<u>15</u>	years
Estimated days open per year:	<u>~ 310</u>	days
Estimated yearly disposal volume:	<u>39,290</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> gate yds ³

(if applicable)

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

* 1:1 bank yds³ (bcy) & gate yds³ (gcy)

FACILITY DESCRIPTIONS

Facility Type: Type III Landfill

Facility Name: Livonia Landfill

County: Wayne Location: Town: 1 S Range: 9 E Section(s): 28

City or Township: Livonia

Address: 32000 Glendale, Livonia, MI 48154 Phone:

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 Livonia

Operating Status (check)

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

Waste Types Received (check all that apply)

- ☐ residential
- ☐ commercial
- ☒ industrial
- ☒ construction & demolition
- ☐ contaminated soils
- ☐ special wastes *
- ☒ other: street sweepings

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

Site Size:

Total area of facility property:	<u>22</u>	acres
Total area sited for use	<u>22</u>	acres
Total area permitted:	<u>22</u>	acres
Operating:	<u>15.5</u>	acres
Not excavated:	<u>6.5</u>	acres
Current capacity:	<u>178,207</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> bank yds ³
Estimated lifetime:	<u>16.5</u>	years
Estimated days open per year:	<u>250</u>	days
Estimated yearly disposal volume:	<u>10,761</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> gate yds ³

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

* 1:1 bank yds³ (bcy) & gate yds³ (gcy)

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Riverview Land Preserve

County: Wayne Location: Town: 4 S Range: 10 E Section(s): 11 & 12

City or Township: Riverview

Address: 20455 Grange Riverview, MI 48192 Phone: (734) 281-4263

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

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

☒ Public ☐ Private Owner: City of Riverview

Operating Status (check)

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

Waste Types Received (check all that apply)

- ☒ residential
- ☒ commercial
- ☒ industrial
- ☒ construction & demolition
- ☒ contaminated soils
- ☐ special wastes *
- ☒ other: Type II wastes

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

-

Site Size:

Total area of facility property:	<u>404.34</u>	acres
Total area sited for use	<u>239.55</u>	acres
Total area permitted:	<u>212.5</u>	acres
Operating:	<u>109.69</u>	acres
Not excavated:	<u>53.46</u>	acres
Current capacity:	<u>14,100.000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> bank yds ³ *
Estimated lifetime:	<u>22.5</u>	years
Estimated days open per year:	<u>310</u>	days
Estimated yearly disposal volume:	<u>~ 880,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> gate yds ³ *

(if applicable)

Annual energy production:

Landfill gas recovery projects: max 2,400 megawatts

Waste-to-energy incinerators: N / A megawatts

* 2 gate yds³ (gcy) = 1 bank yds³ (bcy)

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill

Facility Name: Sauk Trail Hills Landfill

County: Wayne Location: Town: 2S Range: 8 E Section(s): 35

City or Township: Canton Twp.

Address: 5011 S. Lilley Rd. Canton Twp., MI 48188 Phone: (734) 397-2790

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: Sauk Trail Hills Development, Inc.

Operating Status (check)

☒ open
☐ closed
☒ licensed
☐ unlicensed
☒ construction permit
☐ open, but closure
☐ pending

Waste Types Received (check all that apply)

☒ residential
☒ commercial
☐ industrial
☒ construction & demolition
☒ contaminated soils
☒ special wastes *
☐ other:

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

Asbestos

-

Site Size:

Total area of facility property: 200.7 acres

Total area sited for use 160.2 acres

Total area permitted: 86.7 acres

Operating 86.7 acres

Not excavated: 73.5 acres

Current capacity: 25,657,759 ☐ tons or ☒ bank yds³ *

Estimated lifetime: 20 years

Estimated days open per year: ~ 310 days

Estimated yearly disposal volume: 1,957,220 ☐ tons or ☒ gate yds³ *

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

* 2 gate yds³ (gcy) = 1 bank yds³ (bcy)

FACILITY DESCRIPTIONS

Facility Type: Existing Type III Industrial Waste Landfill

Facility Name: Sibley Quarry

County: Wayne Location: Town: 4 S Range: 11 E Section(s): 7

City or Township: Trenton

Address: 502 Quarry Rd. Trenton, MI 48183 Phone: (313) 235-8714

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: The Detroit Edison Co.

Operating Status (check)

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

Waste Types Received (check all that apply)

- ☐ residential
☐ commercial
☒ industrial
☐ construction & demolition
☐ contaminated soils
☒ special wastes *
☒ other: Powerplant ash

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

Ash. ** The coal ash landfilling takes place in an active mine. The volume of the present mine is 15,000,000 cubic yards. Since the mine is constantly being enlarged, the capacity of the ultimate excavation will be greater than 15,000,000 cubic yards, and the estimated life will be greater than 60 years.

Site Size:

Total area of facility property:	<u>207.018</u>	acres
Total area sited for use:	<u>120</u>	acres
Total area permitted:	<u>207.018</u>	acres
Operating:	<u>119</u>	acres
Not excavated:		acres

Current capacity:	<u>>15,000,000 **</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> bank yds ³ *
Estimated lifetime:	<u>>60 **</u>	years
Estimated days open per year:	<u>330</u>	days
Estimated yearly disposal volume:	<u>235,381</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> gate yds ³ *

(if applicable)

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

* 1:1 bank yds³ (bcy) & gate yds³ (gcy)

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill

Facility Name: Woodland Meadows Recycling & Disposal Facility

County: Wayne Location: Town: 3 S Range: 8 E Section(s): 1

City or Township: Van Buren Twp.

Address: 5900 Hannan Rd. Van Buren Twp, MI 48111 Phone: (734) 326-0993

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

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

☐ Public ☒ Private Owner: Waste Management of Michigan, Inc.

Operating Status (check)

☒ open
☐ closed
☒ licensed
☐ unlicensed
☒ construction permit
☐ open, but closure
pending

Waste Types Received (check all that apply)

☒ residential
☒ commercial
☐ industrial
☒ construction & demolition
☒ contaminated soils
☒ special wastes *
☐ other:

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

Asbestos, sludges.

Site Size:

Total area of facility property: 269 acres

Total area sited for use: 269 acres

Total area permitted: 148.2 acres

Operating: 71.1 acres

Not excavated: 74.8 acres

Current capacity: 25,600,000 ☐ tons or ☒ bank yds³ *

Estimated lifetime: 10 years

Estimated days open per year: 312 days

Estimated yearly disposal volume: 5,000,000 ☐ tons or ☒ gate yds³ *

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

* 2 gate yds³ (gcy) = 1 bank yds³ (bcy)

FACILITY DESCRIPTIONS

Facility Type: Incinerator

Facility Name: CWCSA

County: Wayne Location: Town: 2S Range: 10E Section(s): 31

City or Township: Dearborn Hts.

Address: 4901 S. Inkster, Dearborn Hts., MI Phone: (313) 292-8877

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: Huron Quarry Monofill

☒ Public ☐ Private Owner: Central Wayne County Sanitation Authority

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Site Size:

Total area of facility property: 32 acres

Total area sited for use: N/A acres

Total area permitted: N/A acres

Operating: N/A acres

Not excavated: N/A acres

Current capacity: 800/day ☒ tons or ☐ bank yds³ *

Estimated lifetime: indefinite years

Estimated days open per year: 312 days

Estimated yearly disposal volume: 248,000 ☒ tons or ☐ gate yds³ *

(if applicable)

Annual energy production:

Landfill gas recovery projects: N/A megawatts

Waste-to-energy incinerators: N/A megawatts

FACILITY DESCRIPTIONS

Facility Type: Incinerator w/ Energy Recovery

Facility Name: Greater Detroit Resource Recovery Facility

County: Wayne Location: Town: 1 S Range: 12 E Section(s): 32

City or Township: Detroit

Address: 5700 Russell St. Detroit, MI 48211

Phone: (313) 876-0140

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 : Ash landfilled at Carleton Farms Landfill

☒ Public ☐ Private Owner: Greater Detroit Resource Recovery Authority

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

-

Site Size:

Total area of facility property: 17.5 acres

Total area sited for use N / A acres

Total area permitted: N / A acres

Operating: N / A acres

Not excavated: N / A acres

Current capacity: 1,043,000 ☒ tons or ☐ yds³

Estimated lifetime: until 2024 years

Estimated days open per year: 365 days

Estimated yearly disposal volume: 1,040,000 ☒ tons or ☐ yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: 68 megawatts

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: American Waste Oil, Inc.

County: Wayne Location: Town: 3 S Range: 8 E Section(s): 3

City or Township: Belleville

Address: 44141 Yost Rd. Belleville, MI 48111 Phone: (313) 397-2300

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: Sauk Trail Hills

☐ Public ☒ Private Owner: American Waste Oil, Inc.

Operating Status (check)

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

Waste Types Received (check all that apply)

- ☒ residential
- ☒ commercial
- ☒ industrial Packaging waste only. No process waste.
- ☒ construction & demolition
- ☐ contaminated soils
- ☒ special wastes *
- ☒ other: All waste that is nonhazardous

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

Building and renovation projects.

-

Site Size:

Total area of facility property:	<u>1.376</u>	acres
Total area sited for use	<u>1.376</u>	acres
Total area permitted:	<u>1.376</u>	acres
Operating:	<u>1.376</u>	acres
Not excavated:	<u>N / A</u>	acres
Current capacity:	<u>1,200 yds/day maximum</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> gate yds ³
Estimated lifetime:	<u>indefinite</u>	years
Estimated days open per year:	<u>~ 270</u>	days
Estimated yearly disposal volume:	<u>80,119</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> gate yds ³

(if applicable)

Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: City Disposal Systems, Inc.

County: Wayne Location: Town: 1 S Range: 12 E Section(s): 32

City or Township: Detroit

Address: 1550 Harper Ave. Detroit, MI 48211 Phone: (313) 923-3300

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: Carleton Farms

☐ Public ☒ Private Owner: Waste Management

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Site Size:

Total area of facility property:	<u>18.25</u>	acres
Total area sited for use:	<u>18.25</u>	acres
Total area permitted:	<u>18.25</u>	acres
Operating:	<u>18.25</u>	acres
Not excavated:	<u>N / A</u>	acres

Current capacity:		<input type="checkbox"/> tons or <input type="checkbox"/> yds ³
Estimated lifetime:	<u>indefinite</u>	years
Estimated days open per year:		days
Estimated yearly disposal volume:	<u>1,550,236</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> gate yds ³

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Dearborn Transfer Station

County: Wayne Location: Town: 2 S Range: 11 E Section(s): 30

City or Township: Dearborn

Address: 2651 Greenfield Dearborn, MI 48120 Phone: (313) 271-8177

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: Sauk Trail Hills

☒ Public ☐ Private Owner: Dearborn Dept. of Public Works

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Site Size:

Total area of facility property: 2.5 acres

Total area sited for use: 2.5 acres

Total area permitted: 2.5 acres

Operating: N / A acres

Not excavated: N / A acres

Current capacity: N / A ☐ tons or ☐ yds³

Estimated lifetime: indefinite years

Estimated days open per year: 312 days

Estimated yearly disposal volume: 108,480 ☐ tons or ☒ gate yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Detroit Transfer and Recycling Facility

County: Wayne Location: Town: 1 S Range: 12 E Section(s): 25

City or Township: Detroit

Address: 12001 Mack Ave. Detroit, MI 48215 Phone: (313) 823-6401

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: Carleton Farms Landfill – Sumpter Twp.

☐ Public ☒ Private Owner: Republic Waste Services

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

No special wastes

-

Site Size:

Total area of facility property: 7 acres

Total area sited for use: 7 acres

Total area permitted: 7 acres

Operating: N / A acres

Not excavated: N / A acres

Current capacity: 4,000 yd/day ☐ tons or ☒ gate yds³

Estimated lifetime: indefinite years

Estimated days open per year: 312 days

Estimated yearly disposal volume: 368,000 ☐ tons or ☒ gate yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station and Processing Plant

Facility Name: Dinverno, Inc.

County: Wayne Location: Town: 1S Range: 12E Section(s): 8

City or Township: Detroit

Address: 4600 East Nevada

Phone: (313) 892-3535

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: Rockwood Landfill and Sauk Trail Hills Landfill

☐ Public ☒ Private Owner: Dinverno, Inc.

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Site Size:

Total area of facility property: 7.4 acres

Total area sited for use: .5 acres

Total area permitted: 7.4 acres

Operating: acres

Not excavated: acres

Current capacity: 1200/day ☒ tons or ☐ bank yds³ *

Estimated lifetime: Indefinite years

Estimated days open per year: 260 days

Estimated yearly disposal volume: 234,000 ☒ tons or ☐ gate yds³ *

(if applicable)

Annual energy production:

Landfill gas recovery projects: N/A megawatts

Waste-to-energy incinerators: N/A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Hamtramck Transfer Station

County: Wayne Location: Town: 1S Range: 12E Section(s): 20

City or Township: Hamtramck

Address: 9600 Buffalo, Hamtramck

Phone:

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 Hamtramck

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Site Size:

Total area of facility property:

acres

Total area sited for use:

acres

Total area permitted:

N/A

acres

Operating:

N/A

acres

Not excavated:

N/A

acres

Current capacity:

<200 daily

☐ tons or ☐ bank yds³ *

Estimated lifetime:

indefinite

years

Estimated days open per year:

250

days

Estimated yearly disposal volume:

☐ tons or ☐ gate yds³ *

(if applicable)

Annual energy production:

Landfill gas recovery projects:

N/A

megawatts

Waste-to-energy incinerators:

N/A

megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Inkster Transfer Station

County: Wayne Location: Town: TS Range: 10 E Section(s): 30

City or Township: Inkster

Address: 26900 Princeton Inkster, MI 48141 Phone: (313) 563-9773

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: Woodland Meadows – Van Buren

☒ Public ☐ Private Owner: City of Inkster

Operating Status (check)

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

Waste Types Received (check all that apply)

- ☒ residential
☐ commercial
☐ industrial
☐ construction & demolition
☐ contaminated soils
☐ special wastes *
☒ other: Yard clippings

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

Site Size:

Total area of facility property: 1/2 acres

Total area sited for use: 1/2 acres

Total area permitted: N / A acres

Operating: N / A acres

Not excavated: N / A acres

Current capacity: <200 daily ☐ tons or ☒ gate yds³

Estimated lifetime: indefinite years

Estimated days open per year: 300 days

Estimated yearly disposal volume: 2300 ☐ tons or ☒ gate yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Lincoln Park Transfer

County: Wayne Location: Town: 3 S Range: 11 E Section(s): 8

City or Township: Lincoln Park

Address: 500 Southfield Lincoln Park, MI 48146 Phone: (313) 386-1800

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: Debris is hauled to Riverview, chipped wood/leaves is hauled to Carleton Farms

☒ Public ☐ Private Owner: City of Lincoln Park

Operating Status (check)

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

Waste Types Received (check all that apply)

- ☒ residential
- ☐ commercial
- ☐ industrial
- ☐ construction & demolition
- ☐ contaminated soils
- ☐ special wastes *
- ☒ other: General refuse, trees, & stumps

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

-

Site Size:

Total area of facility property: 10 acres

Total area sited for use: 2 acres

Total area permitted: 2 acres

Operating: 2 acres

Not excavated: N / A acres

Current capacity: <200 daily ☐ tons or ☒ gate yds³

Estimated lifetime: indefinite years

Estimated days open per year: 250 days

Estimated yearly disposal volume: 50,000 ☐ tons or ☒ gate yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Livonia Transfer Station

County: Wayne Location: Town: 1 S Range: 9 E Section(s): 28

City or Township: Livonia

Address: 32000 Glendale Livonia, MI 48154 Phone:

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: Woodland Meadows – Van Buren

☒ Public ☐ Private Owner: City of Livonia

Operating Status (check)

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

Waste Types Received (check all that apply)

- ☒ residential
- ☐ commercial
- ☐ industrial
- ☐ construction & demolition
- ☐ contaminated soils
- ☐ special wastes *
- ☒ other: Yard clippings

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

-

Site Size:

Total area of facility property:	1.82	acres
Total area sited for use:	0.46	acres
Total area permitted:	<u>N / A</u>	acres
Operating:	<u>N / A</u>	acres
Not excavated:	<u>N / A</u>	acres
Current capacity:	<u><200 daily</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds ³
Estimated lifetime:	<u>indefinite</u>	years
Estimated days open per year:	<u>312 days</u>	days
Estimated yearly disposal volume:	<u>62,400</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> gateyds ³

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Markwell Trucking

County: Wayne Location: Town: 3 Range: 8 E Section(s): 25

City or Township: Belleville

Address: 15435 Martinsville Belleville, MI 48111 Phone: (734) 697-7220

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: Carleton Farms

☐ Public ☒ Private Owner: Ernest Markwell

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Site Size:

Total area of facility property: 10 acres

Total area sited for use: .5 acres

Total area permitted: N/A acres

Operating: N/A acres

Not excavated: N/A acres

Current capacity: <200 daily ☐ tons or ☒ gate yds³

Estimated lifetime: indefinite years

Estimated days open per year: 312 days

Estimated yearly disposal volume: 62,400 ☐ tons or ☒ gate yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Metropolitan Transfer Center

County: Wayne Location: Town: 1 S Range: 12 E Section(s): 9

City or Township: Detroit

Address: 6451 E. McNichols Detroit, MI 48212 Phone: (313) 893-6656

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: Sauk Trail Hills

☐ Public ☒ Private Owner: Metropolitan Transfer

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

No special wastes

-

Site Size:

Total area of facility property: 5 acres

Total area sited for use: 5 acres

Total area permitted: 5 acres

Operating: N / A acres

Not excavated: N / A acres

Current capacity: ☐ tons or ☐ yds³

Estimated lifetime: 20 years

Estimated days open per year: 312 days

Estimated yearly disposal volume: 154,000 ☐ tons or ☒ gate yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station & Processing Plant

Facility Name: New Center Recycling

County: Wayne Location: Town: 1S Range: 11E Section(s): 36

City or Township: Detroit

Address: 1331 Holden

Phone: (313) 871-4000

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: Riverview Landfill

☐ Public ☒ Private Owner: New Center Recycling

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Site Size:

Total area of facility property: 5 acres

Total area sited for use: 5 acres

Total area permitted: 5 acres

Operating: 3 acres

Not excavated: acres

Current capacity: 1,000/day ☒ tons or ☐ gate yds³

Estimated lifetime: Indefinite years

Estimated days open per year: 300 days

Estimated yearly disposal volume: N/A ☐ tons or ☐ gate yds³

(if applicable)

Annual energy production: N/A

Landfill gas recovery projects: N/A megawatts

Waste-to-energy incinerators: N/A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Northville City Transfer

County: Wayne Location: Town: 1 S Range: 8 E Section(s): 3

City or Township: Northville

Address: 650 Doheny Northville, MI 48167 Phone: (313) 349-3271

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: Sauk Trail Hills

☒ Public ☐ Private Owner: City of Northville

Operating Status (check)

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

Waste Types Received (check all that apply)

- ☒ residential
- ☐ commercial
- ☐ industrial
- ☐ construction & demolition
- ☐ contaminated soils
- ☐ special wastes *
- ☒ other: Cemetery wastes - Grave blankets & decorations.

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

-

Site Size:

Total area of facility property:	<u>15</u>	acres
Total area sited for use	<u>1.5</u>	acres
Total area permitted	<u>1.5</u>	acres
Operating:	<u>1.5</u>	acres
Not excavated:	<u>N / A</u>	acres
Current capacity:	<u><30 daily</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> gate yds ³
Estimated lifetime:	<u>indefinite</u>	years
Estimated days open per year:	<u>12 (1st Sat. of every month)</u>	days
Estimated yearly disposal volume:	<u>420</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> gate yds ³
(if applicable)		
Annual energy production:		
Landfill gas recovery projects:	<u>N / A</u>	megawatts
Waste-to-energy incinerators:	<u>N / A</u>	megawatts

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Onyx Transfer

County: Wayne Location: Town: 2S Range: 11E Section(s): 30

City or Township: Dearborn

Address: 3051 Schaefer Road

Phone: (313) 436-8333

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 in Washtenaw County

☐ Public ☒ Private Owner: Onyx Waste Services, Inc.

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Site Size:

Total area of facility property: 5.4 acres

Total area sited for use: 5.4 acres

Total area permitted: 5.4 acres

Operating: acres

Not excavated: acres

Current capacity: 500/day ☒ tons or ☐ gate yds³

Estimated lifetime: 50 years

Estimated days open per year: 313 days

Estimated yearly disposal volume: 130,000 ☒ tons or ☐ gate yds³

(if applicable)

Annual energy production: N/A

Landfill gas recovery projects: N/A megawatts

Waste-to-energy incinerators: N/A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer

Facility Name: Plymouth City Transfer Station

County: Wayne Location: Town: 1 S Range: 8 E Section(s): 27

City or Township: Plymouth

Address: 1231 Goldsmith Plymouth, MI 48170 Phone: (313) 455-1392

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: BFI – Arbor Hills

☒ Public ☐ Private Owner: City of Plymouth

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Site Size:

Total area of facility property:

< 5

acres

Total area sited for use

N / A

acres

Total area permitted:

N / A

acres

Operating:

N / A

acres

Not excavated:

N / A

acres

Current capacity:

<200 daily

☐ tons or ☒ gate yds³

Estimated lifetime:

indefinite

years

Estimated days open per year:

~ 255

days

Estimated yearly disposal volume:

667

☐ tons or ☒ gate yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects:

N / A

megawatts

Waste-to-energy incinerators:

N / A

megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: River Rouge Transfer

County: Wayne Location: Town: 2 S Range: 11 E Section(s): 34

City or Township: River Rouge

Address: 5 Marion River Rouge, MI 48218 Phone: (313) 842-6482

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: Riverview Land Preserve

☒ Public ☐ Private Owner: City of River Rouge

Operating Status (check)

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

Waste Types Received (check all that apply)

- ☒ residential
☐ commercial
☐ industrial
☐ construction & demolition
☐ contaminated soils
☐ special wastes *
☒ other: Recyclables

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

Site Size:

Total area of facility property: .98 acres

Total area sited for use: .98 acres

Total area permitted: N / A acres

Operating: N / A acres

Not excavated: N / A acres

Current capacity: <200 daily ☐ tons or ☒ gate yds³

Estimated lifetime: indefinite years

Estimated days open per year: 312 days

Estimated yearly disposal volume: < 62,400 ☐ tons or ☒ gate yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Romulus Transfer Station

County: Wayne Location: Town: 3 S Range: 9 E Section(s): 16

City or Township: Romulus

Address: 34100 Goddard Romulus, MI 48174 Phone: (313) 942-7572

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: Carleton Farms Landfill

☒ Public ☐ Private Owner: City of Romulus

Operating Status (check)

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

Waste Types Received (check all that apply)

- ☒ residential
- ☐ commercial
- ☐ industrial
- ☒ construction & demolition
- ☐ contaminated soils
- ☐ special wastes *
- ☒ other: Bulky items (i.e. furniture)

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

No special wastes

Site Size:

Total area of facility property: 12 acres

Total area sited for use: <1 acres

Total area permitted: N / A acres

Operating: N / A acres

Not excavated: N / A acres

Current capacity: <200 daily ☐ tons or ☒ gate yds³

Estimated lifetime: indefinite years

Estimated days open per year: 260 days

Estimated yearly disposal volume: 720 ☐ tons or ☒ gate yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station and Processing Facility

Facility Name: S & J

County: Wayne Location: Town: 2S Range: 12E Section(s): 33

City or Township: River Rouge

Address: 1900 West Pleasant, River Rouge Phone: (313) 841-9518

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: Carleton Farms Landfill

☐ Public ☒ Private Owner: Sharon Hobig

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Site Size:

Total area of facility property: 7 acres

Total area sited for use: 7 acres

Total area permitted: 7 (pending) acres

Operating: acres

Not excavated: acres

Current capacity: 200/day ☐ tons or ☒ gate yds³ *

Estimated lifetime: indefinite years

Estimated days open per year: 300 days

Estimated yearly disposal volume: 60,000 ☐ tons or ☒ gate yds³ *

(if applicable)

Annual energy production:

Landfill gas recovery projects: N/A megawatts

Waste-to-energy incinerators: N/A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Southfield Yard, Detroit DPW Western District

County: Wayne Location: Town: 1S Range: 11E Section(s): 26

City or Township: Detroit

Address: 12255 Southfield Road, Detroit Phone: (313) 852-4590

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: GDRRA and Carleton Farms Landfill.

☒ Public ☐ Private Owner: City of Detroit, Greater Detroit Resource Recovery Authority

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Site Size:

Total area of facility property: 25 acres

Total area sited for use: 1 acres

Total area permitted: 1 acres

Operating: 1 acres

Not excavated: acres

Current capacity: 501/day ☒ tons or ☐ bank yds³ *

Estimated lifetime: indefinite years

Estimated days open per year: 340 days

Estimated yearly disposal volume: 170,340 ☒ tons or ☐ gate yds³ *

(if applicable)

Annual energy production:

Landfill gas recovery projects: N/A megawatts

Waste-to-energy incinerators: N/A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer

Facility Name: Southgate Transfer Station

County: Wayne Location: Town: 3 S Range: 10 E Section(s): 26

City or Township: Southgate

Address: 14719 Schaefer Southgate, MI 48195 Phone: (313) 246-1311

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: Riverview Land Preserve

☒ Public ☐ Private Owner: City of Southgate

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

-

Site Size:

Total area of facility property:

10

acres

Total area sited for use

1

acres

Total area permitted:

N/A

acres

Operating:

1

acres

Not excavated:

N / A

acres

Current capacity:

<200 daily

☐ tons or ☒ gate yds³

Estimated lifetime:

indefinite

years

Estimated days open per year:

250

days

Estimated yearly disposal volume:

<50,000

☐ tons or ☒ gate yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects:

N / A

megawatts

Waste-to-energy incinerators:

N / A

megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Taylor City Transfer

County: Wayne Location: Town: 3 Range: 10 Section(s): 33

City or Township: Taylor

Address: 16300 Racho Rd. Taylor, MI 48180 Phone: (313) 374-1373

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: Sauk Trail Hills

☒ Public ☐ Private Owner: City of Taylor

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

-

Site Size:

Total area of facility property:

~ 40

acres

Total area sited for use

~ 1

acres

Total area permitted:

N/A

acres

Operating:

~ 1

acres

Not excavated:

N / A

acres

Current capacity:

<200 daily

☐ tons or ☒ gate yds³

Estimated lifetime:

indefinite

years

Estimated days open per year:

~ 280

days

Estimated yearly disposal volume:

26,706

☐ tons or ☒ gate yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects:

N / A

megawatts

Waste-to-energy incinerators:

N / A

megawatts

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Trenton City Transfer

County: Wayne Location: Town: 4 S Range: 10 E Section(s): 25

City or Township: Trenton

Address: 1801 Van Horn Trenton, MI 48183 Phone: (313) 675-8470

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: Riverview Land Preserve

☒ Public ☐ Private Owner: City of Trenton

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Site Size:

Total area of facility property: .5 acres

Total area sited for use: .5 acres

Total area permitted: N / A acres

Operating: N / A acres

Not excavated: N / A acres

Current capacity: N / A ☐ tons or ☐ yds³

Estimated lifetime: 20 years

Estimated days open per year: 312 days

Estimated yearly disposal volume: 15,774.13 ☐ tons or ☒ gate yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Waste Management of MI, Inc. – Livonia Yard Transfer Station

County: Wayne Location: Town: 1 S Range: 9 E Section(s): 28

City or Township: Livonia

Address: 32000 Glendale Livonia, MI 48154 Phone: (810) 357-0100

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: Woodland Meadows – Van Buren

☒ Public ☐ Private Owner: City of Livonia

Operating Status (check)

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

Waste Types Received (check all that apply)

- ☒ residential
- ☐ commercial
- ☐ industrial
- ☐ construction & demolition
- ☐ contaminated soils
- ☐ special wastes *
- ☒ other: Yard clippings

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

-

Site Size:

Total area of facility property:	<u>.5</u>	acres
Total area sited for use	<u>.5</u>	acres
Total area permitted:	<u>N / A</u>	acres
Operating:	<u>N / A</u>	acres
Not excavated:	<u>N / A</u>	acres
Current capacity:	<u>N / A</u>	<input type="checkbox"/> tons or <input type="checkbox"/> yds ³
Estimated lifetime:	<u>indefinite</u>	years
Estimated days open per year:	<u>312</u>	days
Estimated yearly disposal volume:	<u>1,920</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> gateyds ³

(if applicable)

Annual energy production:

 Landfill gas recovery projects: N / A megawatts

 Waste-to-energy incinerators: N / A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Westland City Transfer

County: Wayne Location: Town: 2 S Range: 9 E Section(s): 17

City or Township: Westland

Address: 37173 Marquette Westland, MI 48185 Phone: (313) 728-1770

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: Woodland Meadows – Van Buren

☒ Public ☐ Private Owner: City of Westland

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

No special wastes

Site Size:

Total area of facility property:

acres

Total area sited for use:

≤1

acres

Total area permitted:

N / A

acres

Operating:

N / A

acres

Not excavated:

N / A

acres

Current capacity:

<200 daily

☐ tons or ☒ gate yds³

Estimated lifetime:

unlimited

years

Estimated days open per year:

64

days

Estimated yearly disposal volume:

3200

☐ tons or ☒ gate yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects:

N / A

megawatts

Waste-to-energy incinerators:

N / A

megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Woodhaven City Transfer

County: Wayne Location: Town: 4 S Range: 10 E Section(s): 21

City or Township: Woodhaven

Address: 21840 Van Horn Woodhaven, MI 48183 Phone: (734) 675-4919

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: Riverview Land Preserve

☒ Public ☐ Private Owner: City of Woodhaven

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

-

Site Size:

Total area of facility property:

1/4

acres

Total area sited for use

1/4

acres

Total area permitted:

N/A

acres

Operating:

1/4

acres

Not excavated:

N / A

acres

Current capacity:

<200 daily

☐ tons or ☒ gate yds³

Estimated lifetime:

indefinite

years

Estimated days open per year:

~ 150

days

Estimated yearly disposal volume:

3,700

☐ tons or ☒ gate yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects:

N / A

megawatts

Waste-to-energy incinerators:

N / A

megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Wyandotte City Transfer

County: Wayne Location: Town: 3S Range: 11E Section(s): 28

City or Township: Wyandotte

Address: 2065 Biddle Wyandotte, MI 48192 Phone: (313) 246-4450

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: Riverview Land Preserve

☒ Public ☐ Private Owner: City of Wyandotte

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Site Size:

Total area of facility property: 5.3 (will change with new site) acres

Total area sited for use: .3 acres

Total area permitted: N/A acres

Operating: .3 acres

Not excavated: N / A acres

Current capacity: <200 daily ☐ tons or ☒ gate yds³

Estimated lifetime: N / A years

Estimated days open per year: 260 days

Estimated yearly disposal volume: <50,000 ☐ tons or ☒ gate yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

FACILITY DESCRIPTIONS

Facility Type: Processing Plant and Transfer Facility

Facility Name: Michigan Disposal Waste Treatment Plant

County: Wayne Location: Town: 3 S Range: 8 E Section(s): 17

City or Township: Van Buren Twp.

Address: 49350 N. I-94 Service Dr. Van Buren Twp., MI 48111 Phone: (313) 699-6297

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: Wayne Disposal, Sauk Trail Hills, Allen Park Clay Mine, Woodland Meadows – Van Buren

☐ Public ☒ Private Owner: EQ – The Environmental Quality Co.

Operating Status (check)

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

Waste Types Received (check all that apply)

- ☐ residential
- ☒ commercial
- ☒ industrial
- ☒ construction & demolition
- ☒ contaminated soils
- ☒ special wastes *
- ☒ other: Liquids, granular solids, sludges

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

RCRA hazardous wastes with the exception of reactives.

-

Site Size:

Total area of facility property: 7.56 acres

Total area sited for use 11 acres

Total area permitted: 11 acres

Operating: 11 acres

Not excavated: N / A acres

Current capacity: ☐ tons or ☐ yds³

Estimated lifetime: indefinite years

Estimated days open per year: 312 days

Estimated yearly disposal volume: ? ☐ tons or ☐ yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

FACILITY DESCRIPTIONS

Facility Type: Processing Plant

Facility Name: Taylor Recycling, Inc.

County: Wayne Location: Town: 3 S Range: 10 E Section(s): 7

City or Township: Taylor

Address: 8767 Holland Taylor, MI 48180 Phone: (313) 291-7410

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: Sauk Trail Hills

☐ Public ☒ Private Owner: Taylor Recycling, Inc.

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

-

Site Size:

Total area of facility property: 20 acres

Total area sited for use acres

Total area permitted: 20 acres

Operating: N / A acres

Not excavated: N / A acres

Current capacity: N / A ☐ tons or ☐ yds³

Estimated lifetime: indefinite years

Estimated days open per year: 312 days

Estimated yearly disposal volume: 24,000 ☐ tons or ☒ gate yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

FACILITY DESCRIPTIONS

Facility Type: Solid Waste Processing Plant

Facility Name: USL, City Environmental, Inc.

County: Wayne Location: Town: 1S Range: 12E Section(s): 32

City or Township: Detroit

Address: 1923 Frederick Street

Phone: (313) 923-0080

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: US Liquids

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Site Size:

Total area of facility property: 11.5 acres

Total area sited for use: 11.5 acres

Total area permitted: 11.5 acres

Operating: acres

Not excavated: acres

Current capacity: 2,500 ☒ tons or ☐ gate yds³

Estimated lifetime: 50 years

Estimated days open per year: 300 days

Estimated yearly disposal volume: N/A ☐ tons or ☐ gate yds³

(if applicable)

Annual energy production: N/A

Landfill gas recovery projects: N/A megawatts

Waste-to-energy incinerators: N/A megawatts

Closed Landfills that will remain included in the Plan

The following landfills are closed and no longer licensed to accept waste but are still routinely monitored by the Wayne County D.O.E. LRMD for post-closure requirements. Specific descriptions of the facilities' original Plan inclusion stipulations can be found on the following pages.

City Sand & Landfill, Type II	46805 Willow Rd., Sumpter Twp.
Vulcan Mold Type III Landfill	1251 Fort St., Trenton
Wayne Disposal Type II Landfill	49350 I-94 Service Dr., Van Buren Twp.
Woodland Meadows South Type II Landfill	39900 Van Born, Canton

Currently Closed Facilities that will remain included in the Plan

The following previously licensed facilities have operated in the past and, although not currently operating, are anticipating the possibility of returning to full operation in the future. These facilities will therefore remain included in the Plan. Specific descriptions of the facilities' original Plan inclusion stipulations can be found on the following pages.

Progressive Sweeping Contractors, Inc. (formerly: BFI Redford Transfer Station)	12564 Inkster, Redford
Detroit Energy & Recycling (formerly: Circle Recycling/S&S)	2660 E. Grand Blvd., Detroit
Waste Management, Inc. (formerly: City Environmental Transfer Station)	5980 Inkster Road, Romulus

Facilities Removed from the Plan as Part of this Update

The following facilities are being removed from the Plan due to any of the following reasons: (1) no longer operating with no intention of resuming operation; (2) previously included but has never received a construction permit and so was never constructed; (3) last known contact was notified and has presented no objection toward intent to have facility removed from Plan.

		<u>Reason</u>
Aaro Waste Paper	14333 Goddard, Detroit	1,3
Fairall Trucking	18472 Allen Rd., Brownstown	1,3
K& K Rail Siding Transfer Station	4058 Elizabeth, Wayne	1,3
Landfill Inc.	39965 Judd Rd., Sumpter Twp.	2,3
Metro/Detroit Environmental Services	7800 Dix, Detroit	1,3
Nave Transfer Station	4440 Wyoming, Dearborn	2,3
Recycling Corporation of America	7731 Melville, Detroit	2,3
Renaissance Recycling	14200-300 Cloverdale, Detroit	1,3

Closed Facility Information

The following previously licensed facilities have operated in the past and, although not currently operating, are anticipating the possibility of returning to full operation in the future. These facilities will therefore remain included in the Plan.

**Progressive Sweeping Contractors, Inc.
(Formerly: BFI Redford Transfer Station)
12564 Inkster Road
Redford
No Construction Permit (Pre-Act 641)**

The facility is a Type A Solid Waste Transfer Facility with two compactors. The facility is designed to accept 250 tons of general refuse per day. The property description is as follows: 1.93 Acre, SW ¼ of Section 30, T1S, R10E, Redford Township.

**Detroit Energy Recycling, Inc.
(Formerly: Circle Recycling/S&S)
2660 E. Grand Blvd.
Detroit
Construction Permit #0277 (Issued 10-25-92)**

The facility will process truckloads of commercial waste by removing recyclable materials for marketing. Commercial waste is primarily composed of mixed paper, corrugated, glass, wood, plastics and some metal. Tires will also be processed and some small amounts of food refuse will come from restaurants and office cafeterias. The facility will typically process 180 tons per day of commercial refuse and the removal of 104 tons per day of recyclable material.

**Waste Management, Inc.
(Formerly: City Environmental Transfer Station and Processing Plant/Waste Management of Michigan)
5980 Inkster Road
Romulus
Construction Permit #0226 (Issued 8-31-90)**

A 9.09 acre processing/transfer station to process from 300 to 900 tons per day of residential, commercial and industrial solid waste using a combination of mechanical and manual techniques. Building is 40,000 square feet with an approved conveyor and compactor system.

The following landfills are closed and no longer licensed to accept waste but are still routinely monitored by the Wayne County D.O.E. LRMD for post-closure requirements and will remain included in the Plan.

City Sand and Landfill

46805 Willow Road

Sumpter Township

Construction Permit #0261 (Issued 6-12-92)

This is a closed P.A. 641 Sanitary landfill located at 46805 Willow Road, in Section 28 of Sumpter Township. Willow Road, Sumpter Road, Arkona Road, and Elwell Road bound the site. Site is 240 acres and is closed with the maximum elevation of 755ft.

MSL. Site was licensed to accept Type II and Type III, and MSW incinerator ash.

Wayne Disposal #2

49350 I-94 Service Drive

Belleville

No Construction Permit

This is a closed P.A. 451 Type II landfill located on the north side of I-94 Service Drive between Belleville and Rawsonville Roads in Van Buren Township. The site contains a licensed processing plant. Site is 400 acres and is closed with a maximum approved elevation of 720-738 MSL. Master cells V, VI, VII, XI are individually separated and isolated from each other and other portions of landfill. Master cells V, VI, VII were approved for hazardous waste acceptance. This site was originally included in the WCSWMP as part of the Wayne Disposal #2 with Act 641 license #6625 issued September 12, 1980 (from Wayne Disposal Phase II site plans approved May 8, 1979).

Woodland Meadows South

39900 Van Born Road

Canton

Construction Permit #0288 (Issued 5-28-93)

This is a closed P.A. 451 Type II landfill located at 3990 Van Born Road, in Section 36 of Canton Township. Conrail tracks, Hannan Road, Van Born Road, and Lotz Road bound the site. Site is 105-acre parcel with 77 acres to be filled, with a maximum approved elevation of 902.5 USGS. Site was licensed to accept non-hazardous waste consisting of municipal refuse and commercial and industrial waste.

Vulcan Mold and Iron

1251 Fort Street

Trenton

No Construction Permit (Pre-Act 641)

This is a five-acre Type III facility located on the East Side of Fort Street north of King Road, in the City of Trenton. It abuts the Edison Sibley Quarry. It was first licensed in 1973 and only excepted foundry sand. Fill could not extend higher than permanent ground level.

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill

Facility Name: Citizens Disposal, Inc.

County: Genesee Location: Town: T6N Range: R6E Section(s): 23

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

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

☐ Public ☒ Private Owner: Citizens Disposal, Inc.

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Non-hazardous solid waste requiring prior review and approval including analytical review.

Site Size:

Total area of facility property:	<u>301</u>	acres
Total area sited for use:	<u>258</u>	acres
Total area permitted:		acres
Operating:	<u>51.66</u>	acres
Not excavated:	<u>-0-</u>	acres
Current capacity:	<u>20.4 M</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds ³
Estimated lifetime:	<u>30</u>	years
Estimated days open per year:	<u>310</u>	days
Estimated yearly disposal volume:	<u>1,066,711</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds ³

(if applicable)

Annual energy production:		
Landfill gas recovery projects:	<u>2.4</u>	megawatts
Waste-to-energy incinerators:	<u>N / A</u>	megawatts

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: McGill Rd. Landfill

County: Jackson Location: Town: 2S Range: 1W Section(s): 24

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

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

☐ Public ☒ Private Owner: Waste Management, Inc.

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Incinerator ash.

Site Size:

Total area of facility property: 50.5 acres

Total area sited for use: 50.5 acres

Total area permitted: 18.7 acres

Operating: 50.5 acres

Not excavated: 7.8 acres

Current capacity: 740,000 ☐ tons or ☒ yds³

Estimated lifetime: 8 years

Estimated days open per year: 310 days

Estimated yearly disposal volume: 148,000 ☐ tons or ☒ yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Adrian Landfill

County: Lenawee Location: Town: 7, 8 S 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: N / A

☐ Public ☒ Private Owner: Adrian Landfill, Inc.

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Asbestos and sludges per operating policy.

Site Size:

Total area of facility property: 421 acres

Total area sited for use: 287 acres

Total area permitted: 40 acres

Operating: 19 acres

Not excavated: 20 acres

Current capacity: 5,043,838 ☐ tons or ☒ yds³

Estimated lifetime: 23.5 years

Estimated days open per year: 307 days

Estimated yearly disposal volume: 71,460 ☐ tons or ☒ yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects: 20,148 megawatts

Waste-to-energy incinerators: N / A megawatts

FACILITY DESCRIPTIONS

Facility Type: Landfill

Facility Name: Pine Tree Acres

County: Macomb Location: Lenox Twp. Town: 4N Range: 14E Section(s): 23, 24

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

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

☐ Public ☒ Private Owner: Waste Management

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Sludge, Auto Fluff.

Site Size:

Total area of facility property: 568 acres

Total area sited for use: 568 acres

Total area permitted: 161.2 acres

Operating: 86.1 acres

Not excavated: 75.1 acres

Current capacity: 7,200,000(Remaining future capacity 59,000,000) ☐ tons or ☒ yds³

Estimated lifetime: 8(Future expansion 27) years

Estimated days open per year: 286 days

Estimated yearly disposal volume: 1,800,000 ☐ tons or ☒ yds³

(if applicable)

Annual energy production:

Landfill gas recovery projects: 4 megawatts

Waste-to-energy incinerators: N / A megawatts

FACILITY DESCRIPTIONS

Facility Type: Type II

Facility Name: Vienna Junction Industrial Park Sanitary Landfill

County: Monroe Location: Town: 9S, 8S Range: 8E Section(s): 5, 6, 31 & 32

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

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

☒ Public ☐ Private Owner: Browning-Ferris Industries

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

N / A

Site Size:

Total area of facility property:	<u>246</u>	acres
Total area sited for use:	<u>149</u>	acres
Total area permitted:	<u>56</u>	acres
Operating:	<u>40</u>	acres
Not excavated:	<u>53</u>	acres

Current capacity:	<u>11,400,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds ³
Estimated lifetime:	<u>25</u>	years
Estimated days open per year:	<u>280</u>	days
Estimated yearly disposal volume:	<u>1,000,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds ³

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type III Construction and Demolition

Facility Name: Matlin Road Landfill (Regulated Resource Recovery)

County: Monroe Location: Town: 5N Range: 9E 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: N / A

☐ Public ☒ Private Owner: Regulated Resource Recovery

Operating Status (check)

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

Waste Types Received (check all that apply)

- ☐ residential
- ☐ commercial
- ☐ industrial
- ☒ construction & demolition
- ☐ contaminated soils
- ☐ special wastes *
- ☒ other: Type II Waste

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

N / A

Site Size:

Total area of facility property:	<u>250</u>	acres
Total area sited for use:	<u>40.4</u>	acres
Total area permitted:	<u>40.4</u>	acres
Operating:	<u>17.92</u>	acres
Not excavated:	<u>22.48</u>	acres
Current capacity:	<u>766,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds ³
Estimated lifetime:	<u>23</u>	years
Estimated days open per year:	<u>312</u>	days
Estimated yearly disposal volume:	<u>34,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds ³

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type III – Construction / Demolition & Industrial Waste Landfill

Facility Name: Rockwood Landfill

County: Monroe Location: Town: 5 S Range: 10 E Section(s): 34 (East ½)

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

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

☐ Public ☒ Private Owner: Standard Environmental Services, Inc.

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Non-hazardous industrial waste streams.

Site Size:

Total area of facility property:	<u>209.46</u>	acres
Total area sited for use:	<u>209.46</u>	acres
Total area permitted:	<u>209.46</u>	acres
Operating:	<u>10.92</u>	acres
Not excavated:	<u>140</u>	acres

Current capacity:	<u>22,000,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> bank yds ³ *
Estimated lifetime:	<u>30-35</u>	years
Estimated days open per year:	<u>206</u>	days
Estimated yearly disposal volume:	<u>600,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> gate yds ³ *

(if applicable)

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

* 1:1 bank yds³ (bcy) & gate yds³ (gcy)

FACILITY DESCRIPTIONS

Facility Type: Landfill

Facility Name: Oakland Heights Development

County: Oakland Location: Auburn Town: Range: Section(s): 2

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

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

☐ Public ☒ Private Owner: Allied

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Any non-hazardous material.

Site Size:

Total area of facility property: 179.74 acres

Total area sited for use: acres

Total area permitted: 63.87 acres

Operating: 63.87 acres

Not excavated: 22.1 acres

Current capacity: 5,500,000 ☐ 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 energy production:

Landfill gas recovery projects: N / A megawatts

Waste-to-energy incinerators: N / A megawatts

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: ☒ 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)

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

Waste Types Received (check all that apply)

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

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

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:

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>	acres
Not excavated:	<u>13</u>	acres
Current capacity:	<u>4,700,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds ³
Estimated lifetime:	<u>5.9</u>	years
Estimated days open per year:	<u>286</u>	days
Estimated yearly disposal volume:	<u>1,650,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds ³

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type II and Type III

Facility Name: Waste Management of Michigan/Venice Park Recycling and Disposal Facility

County: Shiawassee Location: Town: T7N Range: R4E Section(s): 26-27

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

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

☐ Public ☒ Private Owner: Waste Mangement of Michigan

Operating Status (check)

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

Waste Types Received (check all that apply)

- ☒ residential
- ☒ commercial
- ☒ industrial
- ☒ construction & demolition
- ☒ contaminated soils
- ☒ special wastes *
- ☒ other: Solidification Operation

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

Asbestos, Medical waste.

Site Size:

Total area of facility property: 325 acres

Total area sited for use: 80 acres

Total area permitted: 80 acres

Operating: 80 acres

Not excavated: 2.5 acres

Current capacity: 1,400,000 ☐ tons or ☒ bank yds^{3*}

Estimated lifetime: 1.5 years

Estimated days open per year: 281 days

Estimated yearly disposal volume: 1,000,000 ☐ tons or ☒ gate yds^{3*}

(if applicable)

Annual energy production:

Landfill gas recovery projects: 11,500 megawatts

Waste-to-energy incinerators: N / A megawatts

* 2 gate yds³ (gcy) = 1 bank yds³ (bcy)

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Arbor Hills Landfill

County: Washtenaw Location: Town: 1S Range: 7E Section(s): 13

Address: 10690 Six Mile Road

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

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

☐ Public ☒ Private Owner: Onyx Waste Services, Inc.

Operating Status (check)

- | | |
|-------------------------------------|---------------------|
| <input checked="" type="checkbox"/> | open |
| <input type="checkbox"/> | closed |
| <input checked="" type="checkbox"/> | licensed |
| <input type="checkbox"/> | unlicensed |
| <input checked="" type="checkbox"/> | construction permit |
| <input type="checkbox"/> | open, but closure |
| <input type="checkbox"/> | pending |

Waste Types Received (check all that apply)

- | | |
|-------------------------------------|---------------------------|
| <input checked="" type="checkbox"/> | residential |
| <input checked="" type="checkbox"/> | commercial |
| <input checked="" type="checkbox"/> | industrial |
| <input checked="" type="checkbox"/> | construction & demolition |
| <input checked="" type="checkbox"/> | contaminated soils |
| <input checked="" type="checkbox"/> | special wastes * |
| <input type="checkbox"/> | other: |

* Explanation of special wastes, including a specific list and/or conditions:
Incinerator ash, asbestos, foundry, sand, wastewater sludge, trees and stumps.

Site Size:

Total area of facility property:	<u>336</u>	acres
Total area sited for use	<u>217</u>	acres
Total area permitted:	<u>217</u>	acres
Operating:	<u>113</u>	acres
Not excavated:	<u>104</u>	acres

Current capacity:	<u>31,770,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> bank
yds ^{3*}		
Estimated lifetime:	<u>17.6</u>	years
Estimated days open per year:	<u>264</u>	days
Estimated yearly disposal volume:	<u>3,500,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> cubic
yds ^{3*}		

(if applicable)

Annual energy production:		
Landfill gas recovery projects:	<u>18</u>	megawatts
Waste-to-energy incinerators:	<u>N / A</u>	megawatts

* 2 gate yds³ (gcy) = 1 bank yds³ (bcy)

APPENDIX B

EVALUATION OF RECYCLING

EVALUATION OF RECYCLING

Alternative methods of managing solid waste were researched for the 1990 Plan and Wayne County's current selected solid waste management system was implemented. After careful consideration and given the fact that the established management system has worked effectively to date, Wayne County does not believe that reevaluation of the system is warranted. Wayne County has therefore opted to continue with an integrated multidimensional plan that includes recycling and composting. Specific information regarding recycling and composting can be found on pages 42-45 of this Plan.

APPENDIX C

DETAILED FEATURES OF RECYCLING AND COMPOSTING PROGRAMS

DETAILED FEATURES OF RECYCLING AND COMPOSTING PROGRAMS

The existing Wayne County Solid Waste Management Plan calls for the development of reuse, recycling, and composting programs. Presently, curbside recycling is used in 34 of the 43 communities. Of the remaining 9 communities, 4 are host to a landfill or a waste-to-energy facility, 4 have a drop-off only recycling program, and 1 has no program. 41 of the 43 communities have a yard waste collection program. The 2 remaining communities have either a call for pick-up or a drop at landfill program.

The majority of the recyclable material that is available in the municipal waste stream falls into one of four categories: plastic; paper; metal; and glass. EPA national figures show that of the total waste generated, 38% is paper, 6% is glass, 8% is metal, and 10% is plastic. In 1999, Wayne County generated 1,295,048 tons of waste. Using EPA percentages and Wayne County's Municipal Waste Stream Report, the table below shows the quantity available for recycling, what has been recycled, and percent of available material recycled within Wayne County. With the recyclable materials diverted through the Michigan Bottle Bill, the volume of glass, plastic, and metal actually recycled is increased by ten (10) percent collectively.

Material	Wayne County Tons Potentially Available for Recycling	Wayne County Tons Diverted	Wayne County Percent Diverted
Plastic	132,094	33,421	25%
Paper	494,708	48,198	10%
Metal	98,423	41,839	42%
Glass	73,817	44,997	61%
Total:	799,042	168,455	21%

There are other items that are recycled, but due to the lack of reported amounts, it is nearly impossible to quantify on a county-wide basis. Examples of those items would be used motor oil, batteries, mercury, and anti-freeze.

In 1999, nine (9) percent of the solid waste collected was composted. This number has varied slightly, although not significantly, over the last few reporting years. The types of material that have and will continue to be composted are grass clippings, leaves, brush, and some kitchen scraps. The percentage reported does not take into consideration the households that grasscycle or backyard compost.

It is expected that the amount of material that is reported to be recycled and composted will stay constant, or increase due to continued public education.

APPENDIX D

COMPOSTING OPERATING PARAMETERS

Composting Operating Parameters

Wayne County is not proposing to operate a composting facility and therefore does not subscribe to operating parameters. The compost facilities located within Wayne County must meet the requirements of the Wayne County Solid Waste Ordinance. Division staff inspects the approved compost facilities within Wayne County twice per month from April through November. The inspections verify compliance with the Ordinance and review recommended practices for operations. A copy of the inspection report is included in this Appendix.

**WAYNE COUNTY DEPARTMENT OF ENVIRONMENT
LAND RESOURCE MANAGEMENT DIVISION
INSPECTION REPORT**

Page 1 of _____

COMPOST FACILITY: ☐ APPROVED ☐ UNAPPROVED

NAME OF FACILITY
FACILITY/ADDRESS
NAME OF OPERATOR/LICENSEE

**LEGEND: (C)=COMPLIANCE (N)=NONCOMPLIANCE (--)=NOT EVALUATED (*)=TAKE NOTE
EXPLANATIONS ARE DETAILED ON THE BACK OF THIS FORM**

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">REQUIRED PRACTICES</td> </tr> <tr><td style="width: 5%; text-align: center;">A</td><td>Noise and Vibration Control</td></tr> <tr><td style="text-align: center;">B</td><td>Off-site Roads</td></tr> <tr><td style="text-align: center;">C</td><td>Dust and Odor Control</td></tr> <tr><td style="text-align: center;">D</td><td>Operations Conform to Plans & Conditions</td></tr> <tr><td style="text-align: center;">E</td><td>Routine Cleaning & Blowing Debris</td></tr> <tr><td style="text-align: center;">F</td><td>Landscape Requirements</td></tr> <tr> <td colspan="2" style="text-align: center;">RECOMMENDED PRACTICES</td> </tr> <tr><td style="text-align: center;">G</td><td>Slope of Grade</td></tr> <tr><td style="text-align: center;">H</td><td>Surface/Ground Water Protection</td></tr> <tr><td style="text-align: center;">I</td><td>Container Removal</td></tr> <tr><td style="text-align: center;">J</td><td>Equipment Maintenance/Adequacy</td></tr> <tr><td style="text-align: center;">K</td><td>Storage of Finished Compost</td></tr> <tr><td style="text-align: center;">L</td><td>Restricted Access/Attendant</td></tr> <tr><td style="text-align: center;">M</td><td>Leachate Management</td></tr> <tr><td style="text-align: center;">N</td><td>Decomposition Process</td></tr> <tr><td style="text-align: center;">O</td><td>Contingency Abatement Plan</td></tr> </table>	REQUIRED PRACTICES		A	Noise and Vibration Control	B	Off-site Roads	C	Dust and Odor Control	D	Operations Conform to Plans & Conditions	E	Routine Cleaning & Blowing Debris	F	Landscape Requirements	RECOMMENDED PRACTICES		G	Slope of Grade	H	Surface/Ground Water Protection	I	Container Removal	J	Equipment Maintenance/Adequacy	K	Storage of Finished Compost	L	Restricted Access/Attendant	M	Leachate Management	N	Decomposition Process	O	Contingency Abatement Plan	<div style="border: 1px solid black; padding: 5px;"> REMARKS: WIND DIRECTION: _____ SPEED: _____ MPH </div>
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REVIEWED & RECEIVED BY (This signature does not imply agreement or disagreement with any violation noted.)	DATE (M/D/Y)	TIME OF INSPECTION																																	
INSPECTED BY	REPRESENTING Wayne County Department of Environment (D.O.E.) Land Resource Management Division																																		

Distribution: Original to D.O.E., 1 Copy to Operator/Licensee, 1 Copy to Department of Environmental Quality

Unless otherwise noted, please address above issues no later than by the next routine inspection. If you have questions, please contact the Land Resource Management Division. (313) 326-3936

EXPLANATIONS

For the following, "Ordinance" refers to the Wayne County Solid Waste Ordinance No. 90-407.

REQUIRED PRACTICES:

- A. All compost facilities shall be designed, constructed, and operated so that fugitive dust, noxious odors, **noise**, and blowing debris are controlled and do not cause off-site problems or nuisances. [Ordinance Section 210.]
- B. Tracking of mud from composting facilities onto public off-site roads will be minimized and/or adequately removed. [Ordinance Section 160]
- C. All compost facilities shall be designed, constructed, and operated so that **fugitive dust, noxious odors**, noise, and blowing debris are controlled and do not cause off-site problems or nuisances. [Ordinance Section 210.]
- D. All compost facilities shall operate in accordance with an approved site plan and approved conditions. [Ordinance Section 235]
- E. All compost facilities shall be designed, constructed, and operated so that fugitive dust, noxious odors, noise, and **blowing debris** are controlled and do not cause off-site problems or nuisances. [Ordinance Section 210.]
- F. All compost facilities shall be landscaped and maintained to provide visual screening of the site as required. [Ordinance Sections 200, and 235.3]

RECOMMENDED PRACTICES:

- G. The site should be graded at a minimum 2 percent slope to minimize ponding of water and to maintain flow in the direction of drainage collection ditches, away from the composting material.
- H. The site should be compacted, graded and/or ditched to prevent contaminants from exiting the site via surface or groundwater.
- I. Roll-off boxes, or similar waste containers, containing wastes not suitable for composting, should be moved off site on a regular basis (ie. weekly) or more often as sufficient to prevent nuisance conditions.
- J. The operator should provide adequate size and quantity of equipment on site & should provide for its routine operational maintenance.
- K. Finished compost should be kept clearly separated from incoming yard clippings and unfinished compost for proper delineation of materials
- L. Access should be limited to times when a responsible individual is on duty. A notice stating the hours and days of operation should be conspicuously posted at the entrance to the facility.
- M. Any leachate generated during mixing or composting shall be collected and reintroduced into the compost pile, directed to a sanitary sewer if an NPDES permit is obtained, treated on site by an approved method, or transported by a liquid industrial waste hauler which is properly licensed under the Michigan Liquid Waste Haulers Act.
- N. The temperature, moisture content, etc. of compost piles should be monitored regularly and site-specific turning criteria should be developed.
- O. A contingency abatement plan should be developed to provide for a malfunctioning operation. The plan should, at a minimum, specify all of the following: a.) Identification of supervisory personnel responsible for putting the abatement plan into action; b.) Mechanism by which offending odor source, contaminant runoff, or other malfunction will be eliminated; c.) Method by which new incoming material will be halted or handled; and d.) Criteria and method by which routine operations will recommence.

*** Please Note: These explanations may not be all inclusive. As owner/operator, you are required to comply with all applicable laws governing the handling of yard waste for composting.**

APPENDIX E

COORDINATION EFFORTS

Coordination Efforts

The Wayne County Executive and Commission, by adoption of this solid waste plan and by the authority to adopt a countywide solid waste ordinance, have ultimate responsibility for its implementation. The Executive and Commission subsequently authorize the Wayne County Department of Environment to implement and enforce the Plan. The Department's Land Resource Management Division maintains inter-division relationships with the Air Quality Division, and Department of Public Works and coordinates their efforts with all applicable state and federal regulations. The Wayne County Solid Waste Ordinance specifically supplements provisions of Part 115 of the Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and its Administrative Rules.

Implementation of the various components of this Plan requiring agreements between public and private sectors will be the responsibility of those specific parties to coordinate. For example, the Plan requires solid waste facilities to enter into Host Community Agreements prior to becoming included in the Plan. These types of agreements take all levels of applicable laws and ordinances into account.

APPENDIX F

COSTS AND FUNDING

Costs and Funding

Wayne County's selected solid waste management system is managed and operated by private and public entities. As such, funding is handled at the local municipal level for residential wastes and by private business for commercial and industrial wastes.

Wayne County's Solid Waste Program, including its role in implementing this Plan, is funded through the tipping fees collected from the Type II landfills within Wayne County. The basis for these tipping fees can be found in the following excerpt from Wayne County's Enrolled Ordinance No. 95-456, Composite Ordinance, Comprehensive User Fees. (*Note: The following italicized text is added for clarification and is not part of the actual Ordinance language.*)

Section 7

7.350 Solid waste regulatory, planning and administrative service (including County Solid Waste Plan implementation per Public Act 641 of 1978, *[Michigan's Natural Resources and Environmental Protection Act, PA 451, Part 115]* as amended) fees to be assessed operators of landfills:

(a) Solid waste disposed in Type II landfills, 11 cents per cubic yard or 33 cents per ton.

(1) Solid waste disposed in special purpose Type II landfills, as described on page 128 of the County Solid Waste Plan *[The 1990 Wayne County Solid Waste Management Plan]*, is not subject to this fee.

(2) Payments are to be made quarterly based on gate receipts and submitted concurrent with solid waste reports required by the Wayne County Solid Waste Ordinance.

(3) Gate receipts or similar records of the solid waste landfills shall be made available, upon request, for review by representatives of the Health Department or Division of Public Works.

(b) Solid waste disposal in type II landfills, 15 cents per cubic yard or 45 cents per ton, from April 1, 1992 to December 31, 1992 only, in lieu of subsection (a).

This revenue funds all aspects of the Solid Waste Program including planning, compliance and enforcement, and educational outreach. In addition an application fee is collected as part of the facility inclusion process to help defray the costs associated with this review process.

The Land Resource Management Division employs solid waste inspectors, solid waste planners, an engineer, and a geologist whose technical capabilities are vital to solid waste management practices. The solid waste inspectors are responsible for inspecting the solid waste facilities for operational compliance. The program engineer reviews facility design documents and criteria and makes recommendations to the MDEQ regarding licensure of the sites. The program geologist monitors various geological aspects including ground water quality. Finally, the solid waste planning staff are responsible for enforcing aspects of the Plan relating to waste stream reporting and public outreach involving the preferred solid waste hierarchy.

APPENDIX G

**WAYNE COUNTY
SOLID WASTE ORDINANCE**

Approved 10/19/00

ENROLLED ORDINANCE

No.2000-654

INTRODUCED BY COMMISSIONER(S): Boike

WAYNE COUNTY SOLID WASTE ORDINANCE

SECTION 100 PREAMBLE

An Ordinance to protect the public health and land, air, water, and other natural resources of the county; to supplement provisions of, Part 115 of the Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, ("NREPA") and its Administrative Rules; to regulate specified solid waste management practices; to control the operations of solid waste facilities and prevent any adverse off-site effects of operations; to provide an enforceable mechanism for implementation of the Wayne County Solid Waste Plan; to prescribe the powers and duties of agencies; to provide for appeals; and to provide for penalties and remedies.

IT IS HEREBY ORDAINED BY THE PEOPLE OF THE CHARTER COUNTY OF WAYNE:

SECTION 110 GENERAL PROVISIONS

111 **Enabling Clause**

111.1 The County of Wayne, as authorized by the Wayne County Home Rule Charter, Article IV, Part IV, Section 4.343.(b), and Sections 324.11508, 324.11531, and 324.11532 of NREPA, hereby adopts the Wayne County Solid Waste Ordinance. The County Commission of Wayne County under authority of Section 3.115 (1) of the Wayne County Home Rule Charter, approves the Wayne County Solid Waste Ordinance. This Ordinance is also authorized and enacted pursuant to the provisions of the Michigan Public Health Code P.A. 368 of 1978, as amended, MCL 333.2611.

112 **State Incorporated Requirements**

- 112.1 Incorporated in this Ordinance by reference are: MCL 324.11501 through 11507, 11509 through 11536, 11537a, 11541 through 11543, 11545, 11546 and 11548 of NREPA, and the State Administrative Rules promulgated thereunder, MAC R 299.4101 through R299.4140; MAC R299.4203 through R299.4602 and R299.4703 through 4708; MAC R299.4710 through 4711; MAC R299.4901 through 4922. Copies of any material referenced in this section (PART 115 of NREPA and the attendant State Administrative Rules) are available at a nominal charge from the Wayne County Department of Environment.
- 112.2 All solid waste disposal areas shall be designed, constructed, operated, maintained, monitored, and closed in accordance with the requirements of Part 115 of the NREPA, the State Administrative Rules promulgated thereunder, this Ordinance, and the Wayne County Solid Waste Management Plan.

113 **County Requirements**

- 113.1 Proposals for construction, modification, expansion, alteration, reconstruction and operation of a solid waste disposal area shall comply with this Ordinance, the Wayne County Solid Waste Management Plan, the Wayne County Storm Water Management Ordinance, the Wayne County Air Quality Management Ordinance and any other applicable statutes or regulations. Copies of the Solid Waste Management Plan, the Wayne County Storm Water Ordinance and Wayne County Air Quality Management Ordinance are available for review or for purchase from the Wayne County Department of Environment.
- 113.2 This Ordinance shall be applicable in Wayne County as provided by law.

114 **Technological Advances**

- 114.1 The use of technological advances which meet the intent of applicable sections of this Ordinance shall not be prohibited. An applicant or licensee who wishes to utilize a newly developed system, device or procedure, shall request approval from the Department prior to use of the new technology. If the Department determines that the technological advance would provide performance equivalent to a requirement of this Ordinance, the new technology shall be approved.

SECTION 120 DEFINITIONS

120.1 The words and phrases used in this Ordinance have the meanings ascribed to them by this section, or Sections 324.11502 through 11506 of NREPA and its Administrative Rules.

120.2 Words and phrases used in the present tense include the future; words and phrases in the masculine gender include the feminine and neuter; the singular number includes the plural and the plural includes the singular.

120.3 Where words and phrases are not defined under the provisions of this section, they shall have ascribed to them their ordinarily accepted meanings, or such as the context herein may imply.

"ASTM" means the American Society for Testing and Materials.

"C.F.R." means the Code of Federal Regulations published by the Office of the Federal Register, National Archives and Records Service, General Services Administration, Washington, D.C.

"Commercial Waste" means all types of solid waste generated by stores, offices, restaurants, warehouses, and other non-manufacturing activities, but does not include household waste, hazardous waste, and industrial waste.

"Compliance Boundary" means the solid waste boundary or an alternative boundary specified in accordance with 40 C.F.R. part 257.3-4(b).

"Composting" means the process by which biological decomposition of solid waste is carried out under controlled aerobic conditions and which stabilizes the organic fraction into a material that can easily and safely be stored, handled and used in an environmentally acceptable manner. The presence of insignificant and anaerobic zones within the composting material will not cause the process to be classified as other than composting.

"Composting Facility" means a facility where composting of yard clippings or combustible material occurs using composting technology. Composting technology may include

physical turning, windrowing, aeration, or other mechanical handling of organic matter.

"County" means the County of Wayne, Michigan.

"County Commission" means the elected Wayne County Commission.

"Department" means the Wayne County Department of Environment.

"Designated Solid Waste Agency" means the Land Resources Management Division of the Wayne County Department of Environment; or the County Agency which the Wayne County Chief Executive Officer designates to seek criminal complaints and warrants as authorized.

"Division" means any duly authorized agent of the Land Resource Management Division of the Wayne County Department of Environment.

"Division Director" means the Director of the Wayne County Land Resource Management Division of the Department of Environment or his/her authorized representative.

"Drainage Systems" means all swales, ditches, pipes, stormwater detention/retention basins, and sedimentation ponds used to convey stormwater at the solid waste disposal area.

"Existing Solid Waste Disposal Area" means any of the following: (i) a solid waste disposal area that has been issued a construction permit pursuant to the provisions of the Act; (ii) a solid waste disposal area that had engineering plans approved by the director of the Michigan Department of Natural Resources before January 11, 1979; or (iii) an industrial waste pile that is located at the site of generation.

"Facility Inclusion Committee" means the committee appointed to make decisions regarding the placement of solid waste disposal facilities within Wayne County, as set forth in the Wayne County Solid Waste Management Plan.

"Fugitive Dust" means particulate matter emitted into the outdoor atmosphere from outdoor or indoor activities,

operations or premises due to forces of wind or man's activity.

"Generator" means any person, county, municipality, state or federal facility whose activity results in the generation of a solid waste.

"Hazardous Waste" means those wastes that are regulated by Part 111 of NREPA, its Administrative Rules or 40 CFR parts 260 through 265 of the Federal Regulations.

"Health Department" means the Wayne County Health Department.

"Health Director" means the director of the Health Department.

"Household Waste" means any solid waste, including garbage and trash that is derived from households, including single and multi-residences, hotels and motels.

"Industrial Waste" means solid waste which is generated by manufacturing or industrial processes, or originates from an industrial site and which is not a hazardous waste regulated pursuant to the provisions of Part 115 of NREPA.

"Industrial Waste Landfill" means a landfill that is used for the disposal of non-hazardous industrial waste pursuant to Part 111 of NREPA.

"Leachate" means liquid which has come in contact with, passed through, or emerged from, solid waste and which contains soluble, suspended, or miscible materials that are removed from the wastes.

"Leachate Discharge" means any non-permitted release of leachate that is causing or has the potential to cause contamination of groundwater, surface water or the environment.

"Licensee" means the person to whom a Solid Waste Disposal Area License has been issued pursuant to Part 115 OF NREPA.

"Liner" means any natural soil sidewall or base, compacted soil sidewall or base, or synthetic material sidewall or base which is utilized to contain solid waste or the leachate generated therefrom.

"Liquid" means a fluid with a solids content less than 20%.

"Main Interior Haul Roads" means all on-site roads which are used by solid waste transporting units on a routine basis.

"Municipal Solid Waste Landfill" or "Type II Landfill" means a landfill which receives household waste, municipal solid waste, incinerator ash, or sewage sludge and which is not a land application unit, surface impoundment, injection well, or waste pile. A Municipal Solid Waste Landfill also may receive other types of solid waste, such as commercial waste, non-hazardous sludge, conditionally exempt small quantity generator waste, and industrial waste. Such landfill may be publicly or privately owned.

"Off-site Roads" means all roads and their respective right-of-way, outside the solid waste disposal area boundary, which are used by solid waste transporting units entering or exiting the solid waste disposal area.

"On-site Roads" means all roads temporary or permanent which are within the licensed solid waste disposal area.

"Operator" means the person who is in control of or responsible for the operation of a facility or part of a facility.

"Owner" means the person who owns a facility or part of a facility.

"Part 31" means Part 31 of NREPA, as amended, being MCL 324.3101 through 324.3133.

"Part 55" means Part 55 of NREPA, as amended, being MCL 324.5501 through 324.5542.

"Part 111" means Part 111 of NREPA, as amended, being MCL 324.11101 through 324.11152.

"Part 115" means part 115 of NREPA, MCL 324.11501 through 324.11550.

"Part 201" means Part 201 of NREPA, as amended, being MCL 324.20101 through 324.20142.

"Person" means an individual; sole proprietorship; partnership; association; corporation, public or private, organized or existing under the laws of this state or any other state, including a federal corporation; this state or an agency or department of this state; a municipality in this state; or a county in this state.

"Public Servants" means representatives of the division, designated by the Commissioners, Wayne County Commission, to issue and serve appearance tickets.

"Resource Recovery Facility" means machinery, equipment, structure or any parts or accessories of machinery, equipment or structures, installed or acquired for the primary purpose of recovering materials or energy from the waste stream.

"Sanitary Landfill" means a type of disposal area consisting of one or more landfill units and the active work areas associated with these units. Sanitary Landfill shall be classified as one of the following types of landfills:

- (i) A Type II Landfill, which is a municipal solid waste landfill, and includes a municipal solid waste incinerator ash landfill.
- (ii) A Type III Landfill, which is any landfill that is not a municipal solid waste landfill or a hazardous waste landfill and includes both of the following:
 - (a) construction and demolition waste landfills.
 - (b) industrial waste landfills.

"Sewage" means a liquid waste which includes human excreta, wastes from sink, lavatory, bathtub, shower or laundry, and any other liquid waste of organic or chemical nature, either singularly or in any combination thereof.

"Significant Storm Event" means a storm that generates 0.1 inches or more of rainfall in 24 hours.

"Sludge" means any semi-solid that has more than 20% but less than 60% solids.

"Solid Waste" means garbage, rubbish, ashes, incinerator ash, incinerator residue, street cleanings, municipal and industrial sludges, solid commercial and solid industrial waste, and animal waste other than organic waste generated in the production of livestock and poultry, but does not include human body waste, medical or liquid or other waste regulated by statute, ferrous or nonferrous scrap directed to a scrap metal processor or to a reuser of ferrous or nonferrous products, slag or slag products directed to a slag processor or to a reuser of slag or slag products, or certain sludges, ashes described in Section 324.11506(g) of Part 115, materials approved for emergency disposal by the Director of the Michigan Department of Environmental Quality, source separated materials, site separated materials and fly ash or other ash produced from the combustion of coal, when used as identified in Section 324.11506 (k) of Part 115.

"Solid Waste Boundary" means the outermost perimeter of the solid waste (projected in the horizontal plane) as it would exist at completion of the sanitary landfill and as authorized in a construction permit or in engineering plans approved for the landfill unit by the solid waste county agency before January 11, 1979.

"Solid Waste Planning Committee" means the committee appointed to assist in the implementation of the approved Wayne County Solid Waste Management Plan.

"Solid Waste Disposal Area" means a solid waste transfer facility, incinerator, sanitary landfill, processing plant, and resource recovery facility or other solid waste handling and disposal facility utilized in the disposal of solid waste.

"Solid Waste Management Plan" means the approved Wayne County Solid Waste Management Plan, as required by Part 115, and its approved updates.

"Yard Clippings" means leaves, grass clippings, vegetable or other garden debris, shrubbery, or brush or tree trimmings, less than 4 feet in length and 2 inches in diameter, that can be converted to compost humus. Yard clippings do not include stumps, agricultural wastes, animal waste, roots, sewage sludge, or garbage.

SECTION 140 GENERAL PROHIBITIONS AND NOTIFICATIONS.

- 140.1 Sanitary Landfills are prohibited from accepting materials that would prevent the landfill liner from performing as designed, hazardous waste, liquids, yard clippings and sewage.
- 140.2 If an owner/operator discovers that the Sanitary Landfill has accepted hazardous wastes, liquids or sewage, the owner/operator of the landfill shall immediately notify the Division in writing of the incident and document the incident in the operational record.
- 140.3 A Sanitary Landfill may not accept waste from any municipality within the State of Michigan unless that municipality has a recycling program consistent with the recycling provisions of the Wayne County Solid Waste Management Plan. Within thirty (30) days of commencing receipt of waste from a municipality within the State of Michigan, the landfill shall submit to the Division a certification from that municipality that it is implementing a recycling program consistent with the Wayne County Solid Waste Management Plan.
- 140.4 All Sanitary Landfills, Resource Recovery Facilities, transfer stations, composting facilities and process facilities shall immediately notify the Division of any fires, or spills of leachate, fuel, or wastes, if the spill is 55 gallons or greater or is of a quantity that requires reporting to any State or Federal agency.

SECTION 150 ON-SITE ROADS

- 150.1 This section is enacted to assure that on-site roads shall be constructed to provide for all weather accessibility and for the easy removal of mud, waste, and dust.
- 150.2 Main interior haul roads, and entrance and exit facilities at solid waste disposal areas shall be paved. These roads shall be constructed to adequately support the anticipated loads and maintained to assure structural integrity during the useful life of the roads.
- 150.3 Requirements for paving additional on-site roads may be required by the Department if the intent of Section 160 is not being met.

- 150.4 All on-site unpaved roads shall be maintained to prevent off-site and minimize on-site fugitive dust emissions. All on-site paved roads shall be cleaned to remove mud, dust, and waste materials from the road surfaces.

SECTION 160 OFF-SITE ROAD MAINTENANCE

- 160.1 This section is enacted to assure that tracking of mud and/or solid waste materials from solid waste disposal areas onto public off-site roads will be minimized and to assure that mud and/or solid waste materials which are tracked off-site are adequately removed.
- 160.2 Each licensee of a solid waste disposal area shall maintain, revise, and provide to the Department, as necessary, an Off-Site Road Maintenance Plan which addresses, at a minimum, the following:
- A. Method of dislodging mud and/or solid waste materials from the vehicles or undercarriage.
 - B. If a water wash system is utilized:
 - 1. Describe where the wash water will be contained.
 - 2. The method and location for removal and disposal of sediment and contaminated water.
 - C. A traffic control pattern, including a by-pass road around the truck cleaning area if applicable.
 - D. Method for removing soil, dust and/or solid waste materials attributable to the solid waste disposal operations from public off-site roads within 2,500 feet of the solid waste disposal area entrance and exits.
- 160.3 Trucks and off-site roads shall be cleaned as described in the plan cited in subsection 160.2 as often as necessary to prevent the occurrence of nuisances resulting from the tracking of mud and/or solid waste materials.
- 160.4 All solid waste materials, mud and dust which are removed from public off-site roads shall be disposed of as a solid waste.

SECTION 170 LEACHATE COLLECTION AND REMOVAL SYSTEMS

- 170.1 Leachate collection and removal systems are to be designed, constructed and maintained to minimize the build-up of leachate within a sanitary landfill, and the possibility of ground and surface water contamination.
- 170.2 All non-permitted leachate discharges are to be immediately eliminated. All actions to eliminate such discharges shall adequately prevent ground and surface water contamination.
- 170.3 All sanitary landfills shall have a leachate collection and removal system meeting the design requirements of MAC R299.4423, the operating requirements of MAC R299.4432 and the following minimum requirements.
- A. The owner/operator shall monitor the leachate collection system and record the leachate depths on a weekly basis to assure compliance with the applicable hydraulic head limit set forth in Part 115.
 - B. The method of leachate disposal shall be approved by the Department to protect the public health, welfare, and environment unless the disposal method is regulated by state or federal law.
 - C. The collected leachate shall be disposed of in a manner that is in compliance with applicable laws and that does not harm the environment.
 - D. All leachate collection system pipes shall be cleaned or flushed as necessary to maintain proper operation of the system. Every three years, the owner/operator shall provide documentation that the pipes are operating at the designed capacities.
- 170.4 The facility may recirculate leachate, liquid from the secondary collection system, or gas condensate back to a disposal unit. Prior to recirculation, a recirculation plan must be submitted to, and approved by, the Division.

SECTION 180 GAS MANAGEMENT SYSTEM

- 180.1 The owner/operator of a Sanitary Landfill shall comply with the requirements of MAC R 299.4433.

- 180.2 The owner/operator of a Sanitary Landfill shall immediately notify the Division if methane gas levels exceed the limits specified in MAC R.299.4433 (1) and provide to the Division within 60 days of detection, the plan to remediate for the methane gas releases.
- 180.3 The owner/operator of a Sanitary Landfill shall assure that the decomposition gases which are generated within the Sanitary Landfill do not cause a hazard or nuisance to health, safety, and welfare of the public.
- 180.4 Along with the construction permit application, the applicant shall submit plans for a gas migration control system. This system shall be designed, operated, and maintained to meet the following minimum requirements:
- A. The system shall prevent lateral gas movement from the site, or gas accumulation in nearby structures on-site or off-site.
 - B. The system shall prevent the decomposition gas concentrations from causing a public health hazard or nuisance.
- 180.5 The Division may establish alternate schedules for demonstrating compliance pursuant to MAC R.299.4433 (4).
- 180.6 Gas Management Design Considerations
- A: The final cover design for type II landfills shall have either of the following to meet the gas control requirements:
 - 1. A permeable soil layer which is not less than one (1) foot thick and which is located directly below the infiltration layer that vents landfill gas to gas risers.
 - 2. Other means of assuring that gases cannot travel laterally from the site or accumulate in structures
 - B. The base elevation for any gas well installed as part of a gas management system shall be at a minimum of 10 feet above the liner.

180.7 If methane gas levels exceeding the limits in MAC R299.4433(1) are detected from either an active or closed landfill unit, the owner/operator shall do all of the following:

A. Immediately take all necessary steps to ensure protection of human health and notify the Division.

B. Within 7 days of detection, submit to the Division and place in the operating record, the methane gas levels detected, and a description of the steps taken to protect human health.

C. Within 60 days of detection, implement a remediation plan for the methane gas releases, place a copy of the plan in the operating record, and notify the Division that the plan has been implemented. The plan shall describe the nature and extent of the problem and the proposed remedy.

SECTION 190 SOIL EROSION, SEDIMENTATION CONTROL AND STORMWATER MANAGEMENT

190.1 The landfill owner/operator shall control runoff from the active work area of the landfill, and shall institute soil erosion control and sedimentation control measures as necessary to comply with the Wayne County Stormwater Management Ordinance and provisions of part 91 of the NREPA, being sections 9101 through 9123 of public act no. 451 of 1994, as amended, and Sections 324.9101 through 324.9123 of the Michigan Compiled Laws.

190.2 The landfill final cover design shall be sufficient to limit erosion to not more than two (2) tons per acre per year based upon the Universal Soil Loss Equation ("USLE"), or other method approved by the Division. The landfill shall use drainage swales every twenty (20) vertical feet in order to meet the performance criteria of less than 2 tons/acre/year. The facility may choose a design other than drainage swales every 20 vertical feet, if the facility can demonstrate, using the USLE, that the performance criteria is met.

190.3 A combination of sedimentation/retention basin(s), swales and/or ditches shall be required at all sanitary landfills to retain the sediment eroded from the site, and the runoff produced by a 25-year, 24-hour storm.

- 190.4 The drainage system and sedimentation/retention basin(s) shall be designed, and constructed according to currently accepted engineering standards and practices provided that the minimum surface area of the basin is 150 times the maximum flow (expressed in cubic feet per second) out of the basin.
- 190.5 All sedimentation/retention basins, swales, ditches, and other components of the drainage system shall be maintained in compliance with the following:
- A) All side slopes shall be no steeper than three horizontal to one vertical.
 - B) The basin(s), swales and ditches shall be stabilized with seed and mulch in accordance with Section 200.5.
 - C) The basin(s), swales and ditches shall be cleaned out, at a minimum, once per year, unless the owner/operator provides documentation that they are operating at the designed capacities.

SECTION 200 LANDSCAPING REQUIREMENTS

- 200.1 All solid waste disposal areas shall be landscaped and maintained in accordance with the landscaping plan approved by the Division and the minimum requirements of 200.4 and 200.5.
- 200.2 A landscaping plan that complies with the requirements of this section must be submitted to the Division prior to the Facility Inclusion Committee's review of the solid waste disposal area proposal. This plan shall address, at a minimum, the following:
- A. A description of the visual screening to be utilized at the disposal area, and
 - B. A schedule for installation of the visual screening.
- 200.3 The adequacy of the landscaping plan shall be determined by the Division.
- 200.4 The landscaping requirements listed in this subsection shall be utilized at all solid waste disposal areas unless otherwise approved in writing by the Division. Alternate landscaping may be approved if the applicant

demonstrates that the requirements of this subsection are not necessary. The request by the applicant may include a demonstration that adjacent property owners will not be subjected to visual nuisances by disposal operations.

A. Landfilling operations shall be conducted and progress in a manner that will preserve the natural screening vegetation as long as practical.

B. Where screening berms are not required by MAC 299.4305 and MAC 299.4412, greenbelt areas around the site perimeter shall be established to provide a visual buffer between the landfill and adjacent property. These greenbelt areas must be landscaped in accordance with the minimum standards of subsection 205(B).

C. Where screening berms are required by MAC 299.4305 and MAC R 299.4312, the berms shall be stabilized as prescribed in subsection 200.5 (C) and vegetated with a combination of deciduous trees, evergreen trees, shrubs and grasses or ground cover.

200.5 All bare earth slopes and disturbed areas shall be stabilized with topsoil, seed and straw mulch, or equivalent, in conformance with the procedures prescribed in this subsection, between April 1 and June 15 of each year, and between September 15 and November 1 of each year, weather permitting. Alternative stabilization methods may be approved in writing by the Division.

A. A minimum of three (3) inches of topsoil cover shall be utilized when establishing vegetation on all landscaped areas not planted with trees or shrubs. Vegetation shall be either suitable grasses or ground cover.

B. Greenbelts must be landscaped with a minimum of one tree per 3000 sq. ft. of greenbelt area. The trees may be either deciduous or evergreens and may be planted in rows, random, or groupings so as to be visually appealing. Natural vegetation at equivalent densities may be utilized to meet these requirements.

C. Berms must be landscaped with a minimum of one tree and one shrub per 30 linear feet of berm. Trees may be deciduous or evergreen and may be

planted in rows, random, or groups so as to be visually appealing.

D. Trees and shrubs when planted must meet the following minimum standards.

1. Deciduous trees must be at least 2.5 inch caliper.
2. Evergreens must be at least 4 feet in height.
3. Shrubs must be at least 2 feet in height unless they are tree like shrubs then they must be at least 4 feet in height.
4. The following trees are not acceptable: Box Elder, Soft Maples, Elms, Poplars, Willows, Horse Chestnuts, Tree of Heaven and Catalpa.

**SECTION 210 FUGITIVE DUST, NOXIOUS ODORS, NOISE,
AND BLOWING DEBRIS**

- 210.1 The operation of a solid waste disposal area shall not result in unreasonable off-site deterioration of air quality, cause unreasonable interference with the comfortable enjoyment of life or property, or cause injurious effects to human health, safety, or welfare. All solid waste disposal areas shall be designed, constructed and operated so that fugitive dust, noxious odors, noise, and blowing debris are controlled and do not cause off-site problems or nuisances.
- 210.2 The applicant shall submit with the construction permit application an operations plan to minimize the off-site occurrences of fugitive dust, noxious odors, and blowing debris. This plan may include such measures as: restricting the daily work area, refusing to accept certain waste streams, installing portable fences, applying masking agents, using intensive labor efforts, stipulating a greater frequency for cover, or other appropriate measures. This plan shall be approved by the Division.
- 210.3 If an off-site problem or nuisance condition exists, as determined by the Division, despite compliance with the operation plan, then a contingency plan shall be developed by the owner/operator. This contingency plan

shall be submitted within 10 working days from the date that the Division notifies the owner/operator. This plan shall demonstrate to the satisfaction of the Division that the problem will be abated within the shortest practical time period.

- 210.4 In the preparation of the operations plan required by Subsection 210.2, or the contingency plan which may be required by Subsection 210.3, the applicant or owner/operator shall comply with the requirements of Part 55 or the Wayne County Air Quality Management Ordinance, whichever is more stringent.

SECTION 220 SLUDGE DISPOSAL, MONITORING AND REPORTING REQUIREMENTS

- 220.1 The requirements listed in this section are to protect the health, safety, and welfare of the public, to protect water and other natural resources, and to prevent nuisance conditions.
- 220.2 All municipal and industrial sludges disposed of in a sanitary landfill shall not contain any free liquid as determined by Method 9095, known as the Paint Filter Test. This subsection does not apply to Type III sludges delivered to Type III landfills that collect and discharge free liquids under a state or federal discharge permit.
- 220.3 Sludge odors and pathogens shall be controlled, prior to acceptance for disposal.
- 220.4 Sorbent material may be used to increase the solids content of a sludge or liquid at a licensed processing facility. The sorbent material shall be of a nature that will not decompose over time and shall be added prior to delivery of the sludge to the sanitary landfill. Periodic analysis of the sorbent material may be required by the Division to assure the sorbent material's continued performance.
- 220.5 Operators of solid waste disposal areas that accept sludges shall keep on file at the disposal location the following information:
- A. A list of all sludges accepted which includes the generator name and a description of the sludge.

B. The daily quantities and types of sludges from each generator.

C. The following daily test results if required by the Division:

1) The paint filter test results for the various sludge/sorbent material mixtures.

2) The pH of any chemically stabilized sludge.

D. Analysis to verify that the sludge is not a hazardous waste.

220.6 For any non-hazardous sludge which is received from a generator on a continual basis, the analysis required by subsection 220.2 shall be updated annually. The Division may require an increased frequency of the analyses if:

A. Observation of the sludge at the disposal site suggests that there has been a change in sludge characteristic; or

B. The process that generates the sludge is suspected or known to generate an inconsistent waste.

220.7 If a sludge or sludge-sorbent mixture that does not meet the requirements of subsections 220.2, 220.3, and 220.4, is delivered to a sanitary landfill, the operator shall:

A. Not accept the materials for disposal, and

B. Immediately notify the Division.

220.8 If as a result of sludge disposal operations it is determined that violations of this Ordinance occur at the solid waste disposal area, modified or alternative disposal techniques shall be instituted to abate the violation. Such techniques shall effectively increase the solids content of the sludge beyond the requirements cited in subsection 220.2 by either:

A. Adding sorbent material to the sludge, or increasing the quantity of sorbent material added to the sludge, prior to delivery to the Sanitary Landfill, or

B. Adding additional sorbent material to the sludge at the Sanitary Landfill.

- 220.9 Sorbent material added to the sludge at the Sanitary Landfill shall be non-degradable.
- 220.10 Sorbent material stored at the landfill shall not cause a violation of this Ordinance.

SECTION 230 GROUND AND SURFACE WATER QUALITY

- 230.1 All sanitary landfills shall be located, designed, constructed, and operated to assure that ground and/or surface waters are not contaminated. To assure compliance with this Section, all sanitary landfills shall submit to the Division for approval a hydrogeological monitoring plan.
- 230.2 The hydrogeological monitoring plan shall include a surface water monitoring program for any surface water that may receive runoff from the active work area. The surface water monitoring program must be approved by the Division.
- 230.3 Analysis for all ground and surface water monitoring events shall be submitted to the Division within thirty (30) days after the end of the calendar quarter.
- 230.4 The owner/operator shall statistically evaluate ground-water data for each hazardous constituent identified in the facility's hydrogeological monitoring plan in conformance with MAC R.299.4908.
- 230.5 Any notification required pursuant to the following rules shall also be made to the Division; MAC R 299.4440 through 299.4445, 299.4318 and 299.4319.

SECTION 235 PROCESSING, RECYCLING, COMPOSTING, TRANSFER FACILITIES

- 235.1 This section establishes the requirements and procedures for operation of solid waste processing facilities, resource recovery facilities, composting facilities and transfer stations for all facilities to be operated in Wayne County.

235.2 All processing, resource recovery, composting and transfer facilities shall submit to the Division for approval, prior to construction, the following:

A. Site plans including:

- 1) A vicinity map and legal description
- 2) Distances to the nearest adjacent residence and commercial and industrial facilities
- 3) Proposed storage areas
- 4) Utility locations including storm and sanitary sewers and water mains
- 5) Fire hydrant locations
- 6) Access route traffic patterns as well as on-site traffic patterns
- 7) All existing and proposed visual screening measures
- 8) Surface water drainage patterns

B. Written documentation addressing the following, if applicable:

- 1) Expected volumes of incoming waste; recyclables; and/or yard clippings;
- 2) Hours of operation;
- 3) Methods of controlling fugitive dust, noxious odors, noise and blowing debris;
- 4) Fencing and other means of limiting access;
- 5) Method of handling wastes and recovered materials;
- 6) Expected frequency of removal of recovered materials;
- 7) Expected frequency for turning of composting windrows;

8) Fire protection;

9) Description of daily cleanup procedures.

235.3 All processing facilities, resource recovery facilities, composting facilities and transfer stations shall comply with the requirements of sections 200 and 210 of this Ordinance.

235.4 All facilities covered under this section must notify the Chair of the Wayne County Solid Waste Planning Committee as well as the Division that actual operations have begun.

235.5 Upon any change in ownership of a solid waste disposal area, the owner/operator of the facility shall notify the Division in writing.

235.6 In addition, all composting facilities shall comply with the following:

A. The site shall be graded at a minimum 1 percent slope to minimize ponding of water, maintain flow in the direction of drainage collection ditches, and direct flow away from the composting material.

B. The working areas of the site shall be compacted, graded and/or ditched to prevent contaminants from exiting the site via surface water or groundwater.

C. Roll-off boxes, or similar waste containers, containing wastes not suitable for composting, shall be moved off site on a weekly basis, or more often as necessary to prevent nuisance conditions.

D. The operator shall provide adequate size and quantity of equipment on site and shall provide for its routine operational maintenance.

E. Finished compost shall be kept clearly separated from incoming yard clippings and unfinished compost for proper delineation of materials.

F. Access shall be limited to times when a responsible individual is on duty. A notice stating the days and hours of operation shall be

conspicuously posted at the entrance to the facility.

G. Any leachate generated during mixing or composting shall be:

1. Collected and reintroduced into the compost pile;
2. Directed to a sanitary sewer if a Permit is obtained from the sewer agency;
3. Directed to a storm sewer or natural water course if an NPDES permit is obtained;
4. Transported by a liquid industrial waste hauler who is properly licensed under the Michigan Liquid Waste Haulers Act; or
5. Handled in any other manner approved by the Division.

H. A site-specific written plan shall be developed and followed for the operation of the composting facility, and shall include temperature and moisture contents of the compost piles.

J. A contingency abatement plan shall be developed to provide for a malfunctioning operation. The plan shall, at a minimum, specify all of the following:

1. Identification of supervisory personnel responsible for putting the abatement plan into action;
2. Mechanism by which an offending odor source, contaminant runoff, or other malfunction will be eliminated;
3. Method by which new incoming material will be halted or handled; and
4. Criteria and method by which routine operations will recommence.

SECTION 240 POST CLOSURE REQUIREMENTS

240.1 The owner/operator of a sanitary landfill shall be responsible for monitoring and maintaining the site after closure in accordance with the requirements of this section to minimize possible environmental damage or threats to health, safety, and welfare of the public.

240.2 All monitoring required pursuant to MAC R299.4449 shall be performed at least semi-annually for the 30 year post-closure period, unless otherwise authorized by the Division. Whenever any maintenance work is to be performed, the Division shall be notified in writing ten (10) working days prior to such activity.

241 **Post Closure Monitoring Reports**

241.1 The monitoring information collected as required by subsections 240.2 and MAC R299.4449 shall be submitted to the Division within thirty (30) days after the end of each calendar quarter.

241.2 If any of the monitoring results indicate that the disposal area is in violation of this Ordinance, the owner/operator is to immediately notify the Division. The Division may order the owner/operator to take corrective action, or to increase monitoring frequency.

242 **Post Closure Assurances**

242.1 To assure compliance with the post closure requirements of Section 240 the owner/operator or property owner of a closed Sanitary Landfill shall provide notice to the Division upon any change in ownership or management of the Sanitary Landfill property. This notice shall include the name and address of the new owner or management company. Notice shall also be provided to the Division when it is required pursuant to MCL 324.11518.

SECTION 250 WASTE STREAM REPORTING

250.1 This section establishes the requirements and procedures for periodic reporting of solid waste data. The data will provide the Solid Waste Planning Committee and Designated Solid Waste Agency with information needed to determine that the goals and requirements of the Wayne County Solid Waste Management Plan are achieved.

Division by January 31st of the following year with the following information

250.2 A. Each Sanitary Landfill, Resource Recovery Facility that combusts solid waste, and solid waste processing facility that manages waste that ultimately is intended for disposal included in the Wayne County Solid Waste Management Plan shall submit to the Division, a facility quarterly solid waste stream report, as provided by the Division, within thirty (30) calendar days after the end of each quarter. The quarterly report shall include the following information:

1. Facility name, address, telephone number and fax number;
2. Facility type;
3. Reporting units: cubic yards or tons;
4. Quarter and Year;
5. Amount of waste received, listed by county, state and country;
6. Amount of recycled/recovered material received;
7. List of municipalities disposing of residential waste at the Sanitary Landfill or Resource Recovery Facility that combusts solid waste;
8. Amount incinerated, if applicable;
9. Amount landfilled, if applicable; and
10. Amount of ash monofilled; if applicable.

B. Each solid waste Sanitary Landfill, Resource Recovery Facility that combusts solid waste, and solid waste processing facility that manages waste that ultimately is intended for disposal in Wayne County must submit a facility annual solid waste stream report, as provided by the Division, to the:

1. Facility name, address, telephone number and fax number.

2. Facility type.
3. Reporting units: cubic yards or tons.
4. Year.
5. Amount of waste received listed by county, state and country.
6. All waste must be reported by waste category (i.e. residential, commercial, industrial or Resource Recovery Facility).
7. For all non-Wayne County municipalities within the State of Michigan disposing of residential waste at the facility, copies of certifications that the municipality has a recycling program consistent with the Wayne County Solid Waste Management Plan.
8. All changes in Resource Recovery Facilities that combust solid waste design or operating status which would change the availability of the facility to accept waste; and anticipated effect of these changes.
9. Each sanitary landfill licensee shall retain the services of a professional engineer who will annually submit to the designated Division:
 - a. An updated topographic survey and accompanying calculations which will indicate the volume of space remaining to be filled as of the first of January of each year. The volume shall be expressed in cubic yards;
 - b. A calculation of the ratio of the volume of refuse delivered to the facility to the volume of compacted in place refuse. This ratio, when possible, should be determined based on the previous year's experience;
 - c. A Projection of the landfill's life expectancy. The projection is to be expressed in years or fractions of years;

d. All changes in design or operating techniques which would cause change in remaining capacity; and the anticipated effect of these changes on life expectancy.

10. For Resource Recovery Facilities that combust solid waste only, amounts of: waste received, material recycled, material combusted, ash generated, volume reduced, and percent of reduction.

11. All solid waste received must be reported by sector (residential, commercial, industrial, and special) as defined on the facility quarterly solid waste stream report.

250.3 Each Wayne County municipality disposing of waste in Solid Waste Disposal Areas that are identified within the Wayne County Solid Waste Management Plan must submit an annual solid waste stream report thirty-one (31) days after the end of the calendar year with the following information:

A. Municipality

1. Address
2. Contact person
3. Telephone and fax numbers

B. Demographics

1. Population
2. Number of households
3. If municipal service is provided under contract, units serviced-single family, multi-family, apartments, condominiums.

C. Type of waste collection services and providers (if applicable)

1. Municipal crew
2. Contract hauler

3. Special/bulky waste collection
4. Curbside recycling collection
5. Household hazardous waste collection and drop-off centers and dates of Household Hazardous Waste collections.
6. Drop off recycling centers
7. Identify if member of waste disposal authority
8. Identify the solid waste disposal facility utilized
9. Identify haulers for each type of recyclable, including yard waste, accepted and/or collected
10. Identify all amounts of solid waste, including recyclables and yard clippings, collected, reduced, composted, incinerated, and landfilled.
11. Calculate a pounds/person/day generation figure using the formula provided on the report.

SECTION 270 COMPLIANCE SCHEDULE

- 270.1 This section is enacted to assure that all existing solid waste disposal areas will comply with the intent and specific sections of this Ordinance.
- 270.2 The Division Director may issue a compliance schedule, including a sequence of actions, measures, or operations, to provide for the upgrading of an existing solid waste disposal area.
- 270.3 For any existing solid waste disposal area at which site preparation has been completed, Section 150, 170, 180, 190.2-190.5, and 200 shall be excluded from the compliance schedule of Subsection 270.2 unless operation of the disposal area is found to cause a violation of this Ordinance. Based on a violation, the Division Director may issue a new compliance schedule to abate the violation; and the new compliance schedule may include

any of the requirements of Sections 150, 170, 180, 190, and 200 to abate the violation.

- 270.4 Solid waste disposal areas shall be upgraded in accordance with the compliance schedule.

SECTION 280 RIGHT OF ENTRY AND INSPECTION

- 280.1 To determine compliance with this Ordinance, all Solid Waste Disposal Areas are subject to inspection by the Department. This includes all site inspections made during the preparation, construction, operation, closure, and thirty (30) year post-closure periods. Should entry to a premise for an inspection be refused, the Department may obtain a warrant authorizing premise entry and inspection pursuant to Section 2446 of Act 368 of Public Acts of 1978, being Section 333.2446 of the Michigan Compiled Laws. The Department is empowered to collect and examine samples as deemed necessary to perform the duties prescribed herein, and to take photographic, video tape or other representations of conditions existent at the solid waste disposal area. No person shall hinder, obstruct, delay, resist or prevent any inspection from being made, or any sample being collected and/or examined by the Department. Nor shall any person molest, intimidate, harass, or impede a representative of the Department in the lawful discharge of his or her powers and duties.
- 280.2 Based on an alleged violation of this Ordinance, specifically designated employees or officers of the municipality in which the solid waste disposal area is located, may enter the disposal area when accompanied by a representative of the facility. If the designated employee or officer confirms the alleged violation, the Department shall be contacted immediately. The governing body of the municipality shall designate by resolution no more than three employees or officers to be given this responsibility; and shall transmit copies of the resolution to the Department and to the solid waste disposal area operator.

SECTION 290 VARIANCES

- 290.1 Variances from the following parts of this Ordinance may be granted in writing by the Department.
- A. Subsection 150.2 and 3 (paving of on-site roads)
 - B. Subsection 160.2 (off-site road maintenance plan)
 - C. Subsection 180 (gas migration control system)
 - D. Subsection 190 (sedimentation/retention)
 - E. Subsection 200 (landscaping)
 - F. Subsection 220.2 (sludge disposal)
 - G. Subsection 230.2 (groundwater and surface water quality)
- 290.2 A variance may not be granted unless the applicant demonstrates, to the satisfaction of the Department, the following: (a) that the requirement is infeasible and imprudent for the particular solid waste disposal area at issue; (b) that the proposed alternative will provide an equivalent degree of protection for the public health, welfare, and the environment or that the public health, welfare and the environment will not be impaired.
- 290.3 A request for a variance for a solid waste disposal area shall be in writing and shall include the justification for the variance. For a new Part 115 licensed facility, the request shall accompany the construction permit application or information submitted in accordance with Section 235 of the Ordinance.
- 290.4 When a request for a variance is received from an existing facility:
- A. The Department shall promptly notify the municipality in which the facility is located that a request for a variance has been received;
 - B. Within 30 days of receipt of the notice, the municipality or the applicant may request in writing a public hearing on the proposed variance. If a public hearing is requested, the Department shall publish a notice in a newspaper having major circulation in the vicinity of the solid waste

disposal area; and shall conduct the public hearing on the proposed variance;

C. After the hearing, the Department shall review the comments and other testimony and make a decision on the proposed variance.

290.5 The requirements contained in the Ordinance shall be enforced until a written variance has been granted by the Department.

Section 300: COMPLIANCE AND ENFORCEMENT

301 Notice of Violation

301.1 If the County believes that a violation of this Ordinance or the Wayne County Solid Waste Management Plan has occurred or exists, including without limitation any notice, order, license, permit, agreement, decision or determination promulgated, issued, made and entered by the County under this Ordinance or the Solid Waste Management Plan, the County may issue a written notice of violation to the person or persons determined by the County to have caused or contributed to the violation. The written notice of violation shall contain at least the following information, as applicable to the situation and to the extent known by the County:

- (a) The name and address of the violator;
- (b) The location and time that the violation occurred or was observed, and the duration of the violation;
- (c) The nature of the violation, including the provisions of this ordinance, the Solid Waste Management Plan, or of any notice, order, license, permit, agreement, decision or determination violated;
- (d) The basis for determining that a violation has occurred (personal observation, pollutant analysis, etc.);
- (e) The amount of the fine, penalty or charge assessed or due, if any;
- (f) The manner in which, and time and date by which, any fine, penalty or charge must be paid, including any penalty or charge for late payment;

- (g) The remedial action ordered, the time within which required actions must be taken, and any consequences for failure to do so.
- (h) The right to appeal the issuance of the notice and a summary of the procedures for appeal, or other applicable administrative procedures.
- (i) The date and time the order or notice was issued.

301.2 A person receiving a notice of violation may request additional information from the County regarding the contents or requirements of any order or notice. However, a request for additional information shall not extend the time for compliance with the notice.

301.3 Within ten (10) days of the receipt of a written notice of violation, the alleged violator(s) shall submit to the County an explanation of the violation and a compliance plan for correcting the violation to comply with this Ordinance and the Wayne County Solid Waste Management Plan. Submission of the compliance plan in no way relieves the alleged violator(s) of liability for any previous or future violations.

301.4 If the County determines that the response resolves and/or corrects the violation, then the County shall issue a written determination that the violation has been resolved and/or corrected. If the response proposes a plan for resolving and/or correcting the violation, then the compliance plan shall be incorporated into a consent agreement pursuant to Section 302.

301.5 An informal conference may be requested by the County or by person or persons alleged to have caused or contributed to the violation to facilitate a voluntary agreement.

302 Consent Agreement

302.1 A consent agreement may be entered into at any time by and between the County and an alleged violator. The consent agreement shall be acceptable to both the County and the alleged violator and shall reflect the agreement of the alleged violator to assume responsibility for and correct violations of this Ordinance and the Wayne County Solid Waste Management Plan.

302.2 The consent agreement shall be signed by the County and the alleged violator and may contain any appropriate provisions necessary to resolve disputed claims and address identified and potential deficiencies in the alleged violator's compliance status, including, but not limited to, a statement of facts; a description of the actions necessary to correct any non-compliance; compliance schedules; required compliance or remedial actions; fines; penalties; cost reimbursement; financial assurance provisions; and stipulated penalties for the non-compliance.

303 Administrative Compliance Orders

303.1 If the County determines that a person or persons has violated this Ordinance or the Wayne County Solid Waste Management Plan, including without limitation any notice, order, license, permit, agreement, decision or determination promulgated, issued, made and entered by the County under this Ordinance or the Solid Waste Management Plan, the County may issue a unilateral administrative compliance order to the person directing the person to take action to achieve compliance within the time specified by the order.

303.1.1 The County may issue a unilateral administrative compliance order under this Section 303.1 under any of the following circumstances:

- (a) A consent agreement is not entered into and the County determines that a person or persons has caused or contributed, or continues to cause or contribute, to a violation of this Ordinance or the Wayne County Solid Waste Management Plan;
- (b) The County determines that a person has violated a consent agreement entered into with the County or an administrative compliance order issued by the County;
- (c) The County finds that a violation constitutes or will cause an imminent and substantial injury to the public health, safety, welfare, or the environment, and it is prejudicial to the interests of the people of the Charter County of Wayne to delay action. An administrative compliance order issued pursuant to this section shall require the violator to initiate immediate action to avoid, correct, or remove the imminent danger or take

other action as provided by Section 2451 of Act 368 of the Public Acts of 1978 (Public Health Code), being Section 333.2451 of the Michigan Compiled Laws;

- (d) The County reasonably believes that there is a nuisance, unsanitary condition, or cause of illness as a result of a building, condition, or improper solid waste management. An Administrative Compliance Order issued pursuant to this Section may require the violator to avoid, correct, or remove, at the owner's expense, a building or condition, which violates this Ordinance pursuant to Section 2455 of Act 368 of Public Acts of 1978 (Public Health Code), being Section 333.2455 of the Michigan Compiled Laws.
- (e) Under any other circumstances in which the County determines that such an order is necessary to insure compliance with this Ordinance or the Solid Waste Management Plan.

303.4 A unilateral administrative compliance order shall contain at least the following information, as applicable to the situation and to the extent known by the County:

- (a) The name and address of the violator;
- (b) The location and time that the violation occurred or was observed, and the duration of the violation;
- (c) The nature of the violation, including the provisions of this ordinance, the Solid Waste Management Plan, or of any notice, order, license, permit, agreement, decision or determination violated;
- (d) The basis for determining that a violation has occurred (personal observation, pollutant analysis, etc.);
- (e) The amount of the fine, penalty or charge assessed or due, if any;
- (f) The manner in which, and time and date by which, any fine, penalty or charge must be paid, including any penalty or charge for late payment;

- (g) The remedial action ordered, the time within which required actions must be taken, and any consequences for failure to do so;
- (h) The right to appeal the issuance of the notice and a summary of the procedures for appeal, or other applicable administrative procedures; and
- (i) The date and time the order or notice was issued.

303.5 The person or persons who receive an administrative compliance order from the County under this section shall comply with the order within the time specified by the order.

303.6 If the Director determines that improper solid waste management or another condition subject to this Ordinance (1) creates a substantial danger of illness or injury to the public health, safety, welfare, or the environment, and (2) constitutes an emergency such that immediate action is required to protect the health and safety of the people of Wayne County, the County may take such action, without prior notice and at the owner's expense, as may be necessary and appropriate under the circumstances to avoid, correct, remove, or abate the condition or imminent danger. The County may recover all costs and expenses incurred in taking action to alleviate such an emergency from the property owner, and is authorized to charge such costs against the owner of the property by placing a tax lien against the property. A property owner or other aggrieved person may appeal the County's action in accordance with Section 400 of this Ordinance.

304 Municipal Civil Infractions

304.1 Violation; Municipal Civil Infraction. Except as provided by section 305, a person who violates any provision of this ordinance or the Wayne County Solid Waste Management Plan (including, without limitation, any notice, order, license, permit, agreement, decision or determination promulgated, issued, made or entered by the county under this ordinance or the Solid Waste Management Plan) is responsible for a municipal civil infraction, subject to payment of a civil fine of not less than \$250.00 per day and not more than \$10,000.00 per day for each infraction, plus costs and other sanctions; except that a person who violates sections 140.1, 170.1, 170.3C, 180.3, 220.2, 230.1, 240.1 and 270.4 of this ordinance

shall be subject to payment of a civil fine of not less than \$1,000 per day and not more than \$10,000 per day for each infraction, plus costs, expenses and other sanctions.

- 304.2 Repeat Offenses; Increased Fines. Increased fines may be imposed for repeat offenses. As used in this section, "repeat offense" means a second (or any subsequent) municipal civil infraction violation of the same requirement or provision of this ordinance (i) committed by a person within any 12-month period and (ii) for which the person admits responsibility or is determined to be responsible.

The increased fine for a repeat offense under this ordinance shall be as follows:

- (a) The fine for any offense that is a first repeat offense shall be not less than \$500.00, plus costs; except that the fine for any offense that is a first repeat offense under sections 140.1, 170.1, 170.3C, 180.3, 220.2, 230.1, 240.1 and 270.4 of this ordinance shall not be less than \$2,500.00, plus costs, expenses and other sanctions.
- (b) The fine for any offense that is a second repeat offense or any subsequent repeat offense shall be not less than \$1,000.00, plus costs; except that the fine for any offense that is a second or any subsequent repeat offense under sections 140.1, 170.1, 170.3C, 180.3, 220.2, 230.1, 240.1 and 270.4 of this ordinance shall not be less than \$5,000.00, plus costs, expenses and other sanctions.

- 304.3 Amount of Fines.

- (a) Municipal Civil Infraction Citations. Subject to the minimum fine amounts specified in sections 304.1 and 304.2, the following factors shall be considered in determining the amount of a municipal civil infraction fine following the issuance of a municipal civil infraction citation for a violation of this ordinance: the type, nature, gravity, magnitude, severity, frequency, duration, preventability, potential and actual effect, cause (including whether negligent or intentional) and economic benefit to the violator (such as delayed or avoided costs or competitive advantage) of a violation; the violator's recalcitrance,

cooperation or efforts to comply; the violator's compliance history (regardless whether prior enforcement proceedings were commenced); the economic impacts of the fine on the violator; and such other matters as justice may require. A violator shall bear the burden of demonstrating the presence and degree of any mitigating factors to be considered in determining the amount of a fine. However, mitigating factors shall not be considered unless it is determined that the violator has made all good faith efforts to correct and terminate all violations.

- (b) Municipal Civil Infraction Notices; Schedule of Fines. Notwithstanding any provision of this ordinance to the contrary, the amount of a municipal civil infraction fine due in response to the issuance of a municipal civil infraction notice for a violation as provided by Section 304.1 shall be according to the following schedule:

For violation of any provision of this ordinance (except sections 140.1, 170.1, 170.3C, 180.3, 220.2, 230.1, 240.1 and 270.4)

First Offense: \$250.00

First Repeat Offense: \$500.00

Second Repeat Offense (or any Subsequent Repeat Offense): \$1,000.00

For violation of any provision of sections 140.1, 170.1, 170.3C, 180.3, 220.2, 230.1, 240.1 and 270.4)

First Offense: \$1,000.00

First Repeat Offense: \$2,500.00

Second Repeat Offense (or any Subsequent Repeat Offense): \$5,000.00

For any fine not paid in full at the Bureau within 30 days of the time specified for appearance in the municipal civil infraction violation notice, the fine amount due shall automatically be double the amounts listed immediately above. A copy of this schedule shall be posted at the Wayne County Municipal Ordinance Violations Bureau.

- 304.4 Authorized County Officials. The following persons are "authorized county officials" for purposes of issuing

municipal civil infraction citations (directing alleged violators to appear in district court) or municipal civil infraction violation notices (directing alleged violators to appear at the Wayne County Municipal Ordinance Violations Bureau) for violations under this ordinance: the Director of the Department of Environment and his or her designees and authorized representatives; the Division Director and his or her designees and authorized representatives; the Health Director, and his or her designees and authorized representatives; and any police officer.

304.5 Except as otherwise provided by this section, the procedures for municipal civil infraction actions shall be as set forth in Chapter 2 ("Municipal Civil Infractions":) of the Wayne County Code.

305 Criminal Penalties; Imprisonment

Any person who (a) at the time of a violation knew or should have known that the action resulting in the violation was contrary to any provision of this ordinance, or contrary to any notice, order, permit, decision or determination promulgated, issued or made by the Division under this ordinance; or (b) intentionally makes a false statement, representation, or certification in an application for, or form pertaining to a permit, or in a notice, report, or record required by this ordinance, or in any other correspondence or communication, written or oral, with the Division regarding matters regulated by this ordinance; or (c) intentionally falsifies, tampers with, or renders inaccurate any sampling or monitoring device or record required to be maintained by this ordinance; or (d) commits any other act that is punishable under state law by imprisonment for more than 90 days; shall, upon conviction, be guilty of a misdemeanor punishable by a fine of \$500.00 per violation, per day, or imprisonment for up to 90 days, or both in the discretion of the court.

306 Additional Civil Fines and Penalties

In addition to any civil fine or penalty imposed by enforcement of Section 304 of this ordinance, the County pursuant to the authority of Section 11546 of Public Act No. 451 of 1994, being Section 324.11546 of the Michigan Compiled Laws, may bring an action for further appropriate relief and in addition to any other relief

provided by law or this ordinance, request that the court impose a civil fine of not more than \$10,000.00 for each day of any violation of this ordinance.

307 Agreements, Contracts, or Arrangements

Pursuant to Section 2435(c) of Act 368 of Public Acts of 1978, being Section 333.2435(c) of the Michigan Compiled Laws, the Department may enter into agreements, contracts or arrangements with a governmental entity or persons necessary or appropriate to assist the Department in carrying out its duties and functions unless otherwise prohibited by law.

308 Suspension of Enforcement

The Division Director may, in his or her discretion, and subject to any terms or conditions determined appropriate by the Director, suspend enforcement of this Ordinance, including specific sections, parts, or subsections of this Ordinance.

309 Separate Offenses

Each act of violation, and each day or portion of a day that a violation of this ordinance, the Solid Waste Management Plan, or of any notice, order, license, permit, agreement, decision or determination promulgated, issued, made or entered by the county under this ordinance or the Solid Waste Management Plan is permitted to exist or occur, constitutes a separate offense and shall be punishable as provided by this ordinance.

310 Reservation of Rights

Nothing in this Ordinance shall preclude the County from instituting a civil or criminal action pursuant to applicable laws, including without limitation, Sections 2462(3) and 2465(1) of Act 368 of Public Acts of 1978 (Public Health Code), being Sections 333.2462(3) and 333.2465(1) of the Michigan Compiled Laws; and Section 11546 of Public Act No. 451 of 1994 (Natural Resources and Environmental Protection Act), being Section 324.11546 of the Michigan Compiled Laws; to restrain, correct, or abate a violation of this Ordinance; or to stop an illegal act; or to abate a nuisance; or to prevent pollution; or to prosecute any person believed to have violated this Ordinance or the Wayne County Solid

Waste Management Plan under applicable laws, regulations, and ordinances.

SECTIONS 400 RECONSIDERATION AND APPEALS

401 Reconsideration

- 401.1 Any person whose legal rights, duties, or privileges are directly and adversely affected by a determination by the County pursuant to this Ordinance and/or the Wayne County Solid Waste Management Plan may submit a written request for reconsideration of the County's determination within ten (10) days of the date on which the County makes its determination. The request for reconsideration shall be directed to the Division Director.
- 401.2 The County shall respond to a request for reconsideration in writing within ten (10) days of receipt. The County's response shall affirm, rescind, or modify the determination or order as appropriate. Persons may appeal the County's decision upon reconsideration pursuant to the provisions of Section 402.

402 Appeal

- 402.1 Applicability.
 - 402.1.1 Any person whose legal rights, duties, or privileges are directly and adversely affected by a determination by the County pursuant to this Ordinance and/or the Wayne County Solid Waste Management Plan, may appeal for relief from the County's determination in accordance with the procedures established in this section 402.
 - 402.1.2 An appeal shall act as a stay of decision until a final decision is rendered by the County, except that the County shall not be precluded from pursuing any civil or criminal proceeding available under law and equity during the appeal period, nor shall the stay be construed to abridge the rights of the Director, or to stay an order or decision pursuant to Section 2451 and Section 2455 of Act 368 of Public Acts of 1978 (Public Health Code), being Sections 333.2451 and 333.2455 of the Michigan Compiled Laws, to avoid, correct or remove an imminent danger.
- 402.2 Procedures for Appeal.
 - 402.2.1 The appeal shall be in writing, shall be addressed to the Director, and shall be received by the Director within twenty (20) days of the decision or act that is the subject of the appeal. The appeal shall set forth the

specific act or matter complained of and in dispute, and shall include documentation to support the appellant's position. A person shall post a fee of \$250.00 at the time of filing the appeal to cover the cost of processing the appeal.

402.2.2 Within thirty (30) business days of receipt of a written appeal, the Director shall acknowledge such receipt in writing to all interested parties and shall set a day and time for an appellate hearing to be conducted in accordance with section 402.3. If appropriate, the Director also shall direct the Division to schedule a conciliation meeting with the appellant in accordance with section 402.2.3.

402.2.3 If a conciliation meeting is held, it shall be open to all interested parties and their representatives. After the conciliation meeting, if the appellant or the Director determines that an appeal cannot be resolved through a conciliation meeting, the parties shall so inform the Director in writing and request a hearing in accordance with Section 402.3. If all interested parties determine that the dispute has been satisfactorily resolved through the conciliation meeting process or otherwise, the agreement shall be incorporated into a consent agreement.

402.3 Hearing Procedure.

402.3.1 If an appellate hearing is required, the Director shall promptly appoint a disinterested hearing officer of suitable qualifications to conduct an administrative hearing and to receive testimony and evidence presented by the aggrieved person(s). The hearing officer also shall receive testimony and evidence from the County or others as he or she deems necessary. To the extent practicable, the hearing shall be convened and conducted in accordance with Act 306 of the Public Acts of 1969 (Administrative Procedures Act), being Sections 24.201 through 24.328 of the Michigan Compiled Laws, as amended.

402.3.2 A notice shall be sent to the appellant party at least ten (10) days prior to the hearing. The notice shall include:

- (a) a statement of the date, time, place and nature of the hearing;
- (b) a statement of the legal authority and jurisdiction under which the hearing will be held;

- (c) a reference to the particular sections of this Ordinance and/or the Wayne County Solid Waste Management Plan involved in the appeal;
 - (d) a statement of the right of the aggrieved person(s) to be represented by an attorney at the hearing; and
 - (e) a short statement of the issues involved.
- 402.3.3 The hearing officer shall conduct the hearing and file a written report of said hearing with the Director within thirty (30) days of his or her appointment. The hearing officer shall have the right to extend this thirty (30) day period for good cause. However, in such event, his or her report will be submitted to the Director within fifteen (15) days of the conclusion of the hearing.
- 402.3.4 The hearing officer's report shall include a brief statement of factual matters at issue, the nature of the testimony and evidence received, and shall include a recommendation to either uphold, rescind, or modify the decision or action in question on such terms as the hearing officer deems equitable.
- 402.3.5 Within fifteen (15) days of receipt of the hearing officer's report, the Director shall render a decision in writing. The Director shall not be bound by the recommendation of the hearing officer.
- 402.3.6 The decision of the Director shall be final and enforceable at law. A person aggrieved by a final decision of the Director may obtain judicial review pursuant to Act 306 of the Public Acts of 1969 (Administrative Procedures Act), being Sections 24.201 through 24.328 of the Michigan Compiled Laws, as amended. Aggrieved persons shall exhaust all administrative remedies provided in this Ordinance before seeking judicial review.

SECTION 410 AMENDMENTS

- 410.1 This Ordinance may be amended
- Any amendments to this Ordinance will be made after public notice and public hearing pursuant to Section 2442 of Act 368 of the Public Acts of 1978, being Section 333.2442 of Michigan Compiled Laws.

SECTION 420 INTERPRETATION CLAUSES

421 **Other Laws and Regulations**

421.1 This Ordinance provides minimum standards, supplemental to the statutes of the State of Michigan and the administrative rules duly promulgated thereunder. Where any provision of this Ordinance and a provision of any Federal or State statute or rule both apply, the more restrictive of any or all codes, statutes, ordinances, or rules shall prevail.

422 **Interpretation**

422.1 Provisions of this Ordinance shall be construed liberally so as to best preserve the public health and safety. The word "shall" is mandatory, not merely directory.

423 **Severability**

423.1 If any part of this Ordinance is declared illegal or unconstitutional by a court of competent jurisdiction, the decision shall not effect any portion of the Ordinance which remain but the remainder shall be in full force and effect.

424 **Savings Clause**

424.1 Rules, regulations and, ordinances adopted by the County Commission prior to the effective date of this Ordinance shall continue in full force and effect except to the extent they conflict with this Ordinance. In case of a conflict, this Ordinance shall apply.

(*END NOTES)

- 1 PART 115, RULE 299.4423 (3) C
- 2 PART 115, RULE 299.4423 (2) C
- 3 PART 115, RULE 299.4432 (8)
- 4 PART 115, RULE 299.4433 (4)
- 5 PART 115, RULE 299.4436
- 6 PART 115, RULE 299.4908
- 7 PART 115, RULE 299.4440 (8) & (9)
- 8 PART 115, RULE 299.4440 (8) & (9)

9 PART 115, RULE 299.4318 (9)

10 PART 115, RULE 299.4318 (9)

APPENDIX H

FACILITY INCLUSION APPLICATION PACKET

NOTE: The application package contained in this section is for facilities seeking inclusion into the Solid Waste Management Plan. This information may be periodically updated; therefore it is suggested that you contact the Wayne County Department of Environment, Land Resource Management Division at (734) 326-3936 prior to using the attached application.



Edward H. McNamara
County Executive

**WAYNE COUNTY
SOLID WASTE MANAGEMENT PLAN**

**FACILITY INCLUSION APPLICATION PACKET
FOR
SOLID WASTE TYPE II & III LANDFILLS
AND
SOLID WASTE TRANSFER AND PROCESSING FACILITIES**

October, 2000

FACILITY INCLUSION PROCEDURE

APPLICATION COMPONENTS & INSTRUCTIONS

I. ADVISORY ANALYSIS

Obtain and submit a copy of the Advisory Analysis conducted by the Land Resource Management Division. (Wayne County Health Department has designated, through an interagency agreement, Wayne County's Department of Environment as a duly authorized agent to enforce the Federal, State, and Local laws affecting solid waste in Wayne County.)

II. HOST COMMUNITY AGREEMENT

Submit any draft or final written agreements of negotiated settlements between the applicant and the local community. Include any resolutions from the host community's governing body that demonstrates community support.

III. FACILITY INCLUSION APPLICATION

Complete and sign attached copy.

IV. PLAN INCLUSION REVIEW REQUIREMENTS

Submit appropriate documentation and narrative description to address all of the items outlined on the attached "Plan Inclusion Review Requirements."

V. REVIEW FEE

To cover expenses associated with application review, applicants for Wayne County Solid Waste Management Plan inclusion must submit a review fee. Wayne County Department of Environment will establish the fee based on the nature of the proposal with maximum fees set at \$10,000 for solid waste transfer and processing facility applications or \$20,000 for sanitary landfill applications. Checks must be made payable to Wayne County Department of Environment.

VI. APPLICATION SUBMITTAL

Complete all components of the Application and submit fifteen (15) copies to:

Wayne County Facility Inclusion Committee
c/o D.O.E. Land Resource Management Division
3600 Commerce Court, Bldg. E
Wayne, MI 48184

If you have any questions or need assistance, contact the Land Resource Management Division at (734) 326-3936.

WAYNE COUNTY DEPARTMENT OF ENVIRONMENT

SOLID WASTE FACILITY INCLUSION APPLICATION

Application is hereby made to the Wayne County Solid Waste Facility Inclusion Committee c/o Director, Land Resource Management Division, Wayne County Department of Environment for Wayne County Solid Waste Management Plan inclusion.

1. Disposal Area Name and Location			
Name of Facility		Telephone	
Street	City	State	Zip
2. Applicant			
Name of Operating Organization		Contact	
Street	City	State	Zip
Telephone		Operating License Numbers (if expanding an existing facility)	
3. Property Owner			
Name of Property Owner		Contact	Telephone
Street	City	State	Zip
4. Type of Disposal Facility			
Sanitary Landfill Type II _____ *		Type III _____ *	Incinerator _____ **
Transfer Station Type A _____ **		Type B _____ **	Processing _____ **
* Total design capacity in cubic yards		** Design capacity in cubic yards per day	
5. Applicant Signature and Review Fee			
		Fee Included _____	
I hereby certify that the information provided is correct and complete			
Signature _____		Title _____	Date _____

Review Fee

Wayne County Department of Environment based on the facility proposed will establish review fees. The maximum review fee will be \$20,000 for a sanitary landfill or \$10,000 for transfer & processing facilities. Please contact Wayne County Department of Environment Land Resource Management Division at (734) 326-3936 for a determination on the applicable fee. Make check payable and submit with application to Wayne County Department of Environment, 3600 Commerce Court, Bldg. E, Wayne, MI 48184.

PLAN INCLUSION REVIEW REQUIREMENTS

SOLID WASTE FACILITIES

I. GENERAL INFORMATION

Provide a written, detailed project description, including:

- A. Type of facility: Type II Landfill, Type III Landfill, Type A Transfer Station, Type B Transfer Station (including license-exempt facilities), Processing Facility, or Incinerator;
- B. A categorization of the types of waste (i.e. commercial, industrial ash, or residential), estimated daily volume and annual volume to be landfilled, and the life expectancy of the facility;
- C. A description of any resource recovery activities (including gas extraction) to take place at the site; A description of any material or resource recovery features including estimates of the daily volumes of recyclables, compostable, etc. diverted, and volume of material landfilled or incinerated;
- D. A discussion of the consistency of the proposed activity with the WCSWMP which demonstrates how the proposed facility meets the County's objective of properly managing all solid waste while reducing dependence on landfills;
- E. Identify the proposed geographic service area(s) by individual county, state, and/or country include estimated percentages of waste from each service area;
- F. A description of existing site characteristics including, but not limited to, boundaries, topography, soil types, hydrogeological characteristics, ground cover, buildings, water bodies including wetlands, public utilities, surface drainage, etc.
- G. Information on ownership, management, staffing, equipment, and proposed financing of construction, operation, and closure;
- H. Provide evidence of the formal submission of the proposal to the governing body and consultation with officials of the affected community concerning zoning, construction, operation, and reuse plan.

II. LANDFILL DESIGN AND LOCATION

Provide detailed site plans that include:

- A. Vicinity map with “Meets and Bounds” legal description in both written and illustrated form;
- B. Cross sectional drawing of the facility indicating base and final elevations.
- C. Distances to nearest existing residential, commercial, and industrial facilities; include a description of the potential positive and negative impacts the proposed facility will have on other properties within one mile of the site boundary;
- D. Distances to off-site water bodies including wetlands and surface drainage within one mile of the site boundary; Drainage patterns;
- E. Utility locations including storm and sanitary sewers, water mains, and fire hydrants;
- F. Describe truck routing from nearest interstate highway, traffic access, and on-site routes, including any changes and/or improvements necessary. All on-site roads must comply with the Wayne County Solid Waste ordinance (WCSWO) Section 150;
- H. Describe the facility’s leachate collection and removal systems that meet the requirements of the WCSWO Section 170;
- I. Landscaping plan that shows visual screening measures proposed to mitigate impacts on nearby properties. Include a schedule for installation of the visual screening measures that meet the requirements of the WCSWO Section 200. This plan must be submitted and approved by Wayne County Department of Environment Land Resource Management Division prior to inclusion into this submittal;
- J. Describe the gas migration detection system that assures that the decomposition gases, which are generated within a type II sanitary landfill, do not cause a hazard or nuisance to health, safety, and welfare of the public.

III. LANDFILL OPERATION

Provide detailed operating plans that address the following:

- A. Hours of operation;
- B. Measures to mitigate possible impacts on nearby properties including methods of controlling fugitive dust, noxious odors, noise, blowing debris, and vehicle track out.
- C. Methods to limit unauthorized site access.
- D. Submit an off-site road maintenance plan that meets the requirements of the WCSWO Section 160.
- E. Fire Protection;
- F. Special Waste acceptance procedures.

IV. TRANSFER STATION AND PROCESSING FACILITY DESIGN AND LOCATION

Provide detailed site plans that include:

- A. Vicinity map with “Meets and Bounds” legal description in both written and illustrated form;
- B. Proposed waste and recovered material storage areas
- C. Identification of disposal location for waste material.
- D. Distances to nearest existing residential, commercial, and industrial facilities; include a description of the potential positive and negative impacts the proposed facility will have on other properties within one mile of the site boundary;
- E. Distances to off-site water bodies including wetlands and surface drainage within one mile of the site boundary; Drainage patterns;
- F. Utility locations including storm and sanitary sewers, water mains, and fire hydrants;
- G. Describe truck routing from nearest interstate highway, traffic access, and on-site routes, including any changes and/or improvements necessary. All on-site roads must comply with the Wayne County Solid Waste Ordinance (WCSWO) Section 150;
- H. Landscaping plan that shows visual screening measures proposed to mitigate impacts on nearby properties. Include a schedule for installation of the visual screening measures that meet the requirements of the WCSWO Section 200. This plan must be submitted and approved by Wayne County Department of Environment Land Resource Management Division prior to inclusion into this submittal;

V. TRANSFER STATION AND PROCESSING FACILITY OPERATION

Provide detailed operating plans that address the following

- A. Hours of operation;
- B. Measures to mitigate possible impacts on nearby properties including methods of controlling fugitive dust, noxious odors, noise, blowing debris, and vehicle track out.
- C. Methods to limit unauthorized site access.
- D. Expected frequency of recovered material removal;
- E. Fire Protection;
- F. Description of daily clean-up procedures;
- G. Submit an off-site road maintenance plan that meets the requirements of the WCSWO Section 160;
- H. Special Waste acceptance procedures (if applicable).

NOTE: FOLLOWING PLAN INCLUSION, OPERATOR IS RESPONSIBLE FOR OBTAINING ALL APPROPRIATE LOCAL, STATE, OR FEDERAL LICENSES AND PERMITS NECESSARY FOR FACILITY OPERATION, INCLUDING COMPLIANCE WITH THE WAYNE COUNTY SOLID WASTE ORDINANCE 2000-654.

APPENDIX I

MUNICIPALITY RECYCLING CERTIFICATION FORM



Edward H. McNamara
County Executive

Wayne County
Department of Environment
Land Resource Management Division
(734) 326-3936

MUNICIPALITY RECYCLING CERTIFICATION

Name of Municipality:		County:	
Address:			
Contact:		Phone:	
Type of Recycling program offered			
<input type="checkbox"/> Community wide curbside recycling			
<input type="checkbox"/> Drop-off Station(s) (If drop-off stations are used, identify number and location)			
Location(s) _____			

<input type="checkbox"/> Other (please explain) _____			

Wayne County Recycling Requirements			
All municipalities using Wayne County solid waste landfills must provide for recycling either through curbside collection or drop-off centers. At a minimum the municipality must provide access to a drop-off station within a 10 mile radius from all residents of the community.			
Certification Statement			
I hereby certify that _____ meets or exceeds the minimum recycling requirements necessary to utilize Wayne County solid waste landfills.			
Signature:		Date:	
Title:			

APPENDIX J

PUBLIC PARTICIPATION AND APPROVAL PUBLIC INVOLVEMENT PROCESS

PUBLIC PARTICIPATION AND APPROVAL

PUBLIC INVOLVEMENT PROCESS

This section will contain a description of the process used, including dates of public meetings, copies of public notices, documentation of approval from the solid waste planning committee, Wayne County board of commissioners, and municipalities.

Public Solid Waste Planning Committee (Committee) meetings were held on the following dates:
December 9, 1999; January 19, 2000; February 16, 2000; March 15, 2000; April 19, 2000; May 17, 2000; June 21, 2000; August 16, 2000; September 20, 2000; October 18, 2000; and November 29, 2000. A minimum of two weeks prior to each meeting, notices were sent to all cities and townships. Notices were also sent to individuals who had requested being on the mailing list. On November 29, 2000 the Committee unanimously approved the draft Plan.

Copies of the draft update of the Wayne County Solid Waste Management Plan were mailed on December 20, 2000 to all of the communities and solid waste companies operating within Wayne County. The 90-day public review period began on December 15, 2000 and ended on March 31, 2001. Three public hearings were held to receive public comment. They were: Tuesday, February 6, 2001 at 2:00 p.m. at the Downriver Community Conference; Tuesday, February 20, 2001 at 10:00 a.m. at the Wayne County DOE Air Quality Division; and Thursday, March 1, 2001 at 7:00 p.m. at the Wayne County RESA complex. In addition to the public hearings, an informal walk-in day was held on Thursday, February 1, 2001 at the Division office in Wayne.

Public notices announcing the date, time, and location for each public hearing were published in the *Detroit News and Free Press* and are included in this section. Notices were also published in the local community newspapers.

NOTICE OF PUBLIC HEARING

WAYNE COUNTY SOLID WASTE MANAGEMENT PLAN

Notice is hereby given that the Wayne County Solid Waste Implementation/Planning Committee and the Wayne County Department of Environment will hold three public hearings on the Draft Wayne County Solid Waste Management Plan Update on:

Tuesday, February 6, 2001 from 2:00PM – 4:00PM at the Downriver Community Conference, Room 177, 15100 Northline Road, Southgate, MI 48195.

Tuesday, February 20, 2001 from 10:00AM – 12:00PM at the Wayne County Air Quality Office, 6th Floor Auditorium, 640 Temple, Detroit, MI 48226.

Thursday, March 1, 2001 from 7:00PM – 9:00PM at the Wayne County Regional Educational Services Agency (WC RESA), Auditorium, 33500 Van Born Road, Wayne, MI 48184.

There will also be a "walk-in" day for the public on Thursday, February 1, 2001 from 8:30AM – 4:00PM at the Wayne County Land Resources Management Division Offices located at 3600 Commerce Court, Wayne, MI 48184. This day is intended for anyone wishing to review and/or ask questions pertaining to the Plan.

The December 15, 2000, Draft Wayne County Solid Waste Management Plan updates the current Plan adopted in 1990 and has been developed to meet the new guidelines established by the Michigan Department of Environmental Quality.

Individuals or groups wishing to make oral presentations or submit prepared statements may do so at the public hearings. Individuals or groups making oral presentations are encouraged to have their presentations in writing with a copy to be submitted for the record to the Wayne County Solid Waste Implementation/Planning Committee and the Wayne County Department of Environment.

Copies of the new draft Plan have been distributed to each municipality within Wayne County and should be available for review at your local library or City/Township Hall. The Plan is also available for review at the Wayne County Department of Environment (DOE) Land Resource Management Division Office at 3600 Commerce Court, Wayne, MI from 8:30 AM to 4:00 PM Monday through Friday. Copies are available at the same office at cost. Aids and services are available upon reasonable request to individuals with disabilities. You may contact the Wayne County DOE Land Resource Management office at (734) 326-3936 for further information or to make any special arrangements.

Robert Ratz, Director Land Resource Management Division
Wayne County Department of Environment
"Protecting and Restoring Our Environment"

**Legal Notices,
Bids, Proposals****NOTICE OF PUBLIC HEARING
WAYNE COUNTY SOLID WASTE
MANAGEMENT PLAN**

Notice is hereby given that the Wayne County Solid Waste Implementation/Planning Committee and the Wayne County Department of Environment will hold the first of three public hearings on the Draft Wayne County Solid Waste Management Plan Update on Tuesday, February 6, 2001, at 2:00 p.m. at the Downriver Community Conference, Room 177, 15100 Northline Road, Southgate, MI 48195.

The December 15, 2000, Draft Wayne County Solid Waste Management Plan updates the current Plan adopted in 1990 and has been developed to meet the new guidelines established by the Michigan Department of Environmental Quality.

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Robert Ratz, Director Land Resource Management Division
Wayne County Department of Environment.

**Legal Notices,
Bids, Proposals****THE FOLLOWING INDIVIDUALS PLEASE TAKE**

a. Joseph Y.
b. C.
c. D.
d. E.
e. K.
f. D.
g. D.
h. E.
i. L.
j. L.
k. L.
l. S.
m. R.
n. T.
o. D.
p. Your
q. Life
r. had
s. Dep
t. pho
u. writ
v. for
w. and
x. L.
y. Bl
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**WAYNE COUNTY SOLID
Waste Management Plan**

Notice is hereby given that the Wayne County Solid Waste Implementation/Planning Committee and the Wayne County Department of Environment will hold three public hearings on the Draft Wayne County Solid Waste Management Plan Update on Tuesday, February 6, 2001, at 2:00 PM-4:00 PM at the Downriver Community Conference, Room 177, 15100 Northline Road, Southgate, MI 48195.

Tuesday, February 20, 2001 from 10:00AM-12:00PM at the Wayne County Air Quality Office, 6th Floor Auditorium, 640 Temple, Detroit, MI 48226.

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There will also be a "wait-in" day for the public on Thursday, February 1, 2001 from 8:30AM-4:00PM at the Wayne County Land Resources Management Division Offices located at 3600 Commerce Court Wayne, MI 48184. This day is intended for anyone wishing to review and/or ask questions pertaining to the Plan.

The December 15, 2000, Draft Wayne County Solid Waste Management Plan updates the current Plan adopted in 1990 and has been developed to meet the new guidelines established by the Michigan Department of Environmental Quality.

Individuals or groups wishing to make oral presentations or submit prepared statements may do so at the public hearings. Individuals or groups making oral presentations are encouraged to have their presentations in writing with a copy to be submitted for the record to the Wayne County Solid Waste Implementation/Planning Committee and the Wayne County Department of Environment.

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Robert Ratz, Director Land Resource Management Division
Wayne County Department of Environment
"Protecting and Restoring Our Environment"

APPENDIX K

PLANNING COMMITTEE APPOINTMENT PROCEDURE

Solid Waste Planning Committee Appointment Procedure

Part 115 of the Natural Resources and Environmental Protection Act of 1994 (Act 451) requires each county to appoint a Solid Waste Planning Committee and also empowers the County to appoint a Solid Waste Implementation Committee if necessary. The Solid Waste Planning Committee and Implementation Committee are the same Committee within Wayne County. Their responsibility is to assist the designated planning agency in preparing the Solid Waste Management Plan. The designated planning agency for Wayne County is the Land Resource Management Division (LRMD) of the Department of Environment. This Division assisted in the development of the Committee by making recommendations for committee members to the Wayne County Executive for his review and approval. Candidates that were approved by the Executive were forwarded on to the Wayne County Commission for final confirmation of the appointments. The members were then notified by mail of their appointments and the term limit established for their position. In no case will the term limits exceed two years.

APPENDIX L

PLANNING COMMITTEE

**WAYNE COUNTY
SOLID WASTE IMPLEMENTATION COMMITTEE MEMBERS**

Solid Waste Management Industry:

1. James Logsdon, V.P. Development & Operations, Midwest Group, Waste Management, 5900 Hannan, Wayne
2. Laurie Kendall, Director of Landfill Operations, The Environmental Quality Co., 49350 N I-94 Service Dr., Belleville
3. Ron Caramagno, 21804 Heathbridge Lane, Northville
4. Trenessa R. Mitchell, Marketing Manager, Republic Waste Services, 12001 Mack Ave, Detroit

Industrial Waste Generator:

1. Donald Windeler, Rouge Steel Company, 3001 Miller Rd. P.O. Box 1699, Dearborn

Environmental Interest Groups:

1. Frances Schonenberg, Environmentalist, 264 McMillan Road, Grosse Pointe Farms
2. Helen Foster, Environmentalist, 45190 Jeanette, Belleville

General Public:

1. John Hamilton, President Operating Engineers Local 324, 37450 Schoolcraft Road, Suite 110, Livonia
2. Christopher Jackson, Access Consulting Group, 8110 St. Paul, Detroit
3. William B. Matakas, Attorney at Law, 7300 Park Avenue, Allen Park

County Government:

1. Edward A. Boike, Jr., County Commissioner, 15th District, 600 Randolph, Suite 458, Detroit

City Government:

1. Michael Brinker, General Manager, Greater Detroit Resource Recovery Authority, 5700 Russell, Detroit

Township Government:

1. Kevin Kelley, Supervisor, Redford Township, 15145 Beech Daly, Redford

Regional Solid Waste Planning Agency:

1. Ted Starbuck, SEMCOG, 660 Plaza Drive, Suite 1900, Detroit

APPENDIX M

PLAN IMPLEMENTATION STRATEGY

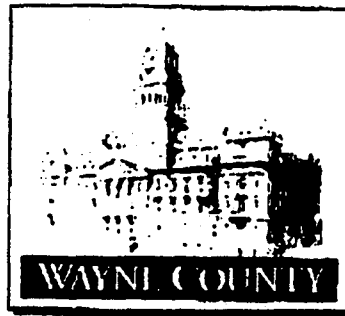
Plan Implementation Strategy

The adoption of this Plan by the Wayne County Executive and Commission is intended as an expression of the County's acceptance of responsibilities for implementing the Plan with roles and responsibilities as described in the Selected Management Section, pp. 59-60.

APPENDIX N
RESOLUTIONS

Resolutions

The following are resolutions from both Wayne and Oakland Counties' Board of Commissioners approving Northville's request to be included in Wayne County's Solid Waste Management Plan (SWMP). Portions of Northville are located within each county, but Northville has elected to be included in the Wayne County SWMP.



Edward H. McNamara
County Executive

January 27, 1998

Honorable Ricardo Solomon
Chairman, Wayne County Commission
450 Wayne County Building
Detroit, Michigan 48226

RE: ADOPTION OF A RESOLUTION BY THE WAYNE COUNTY COMMISSION
DELINEATING WAYNE COUNTY SOLID WASTE PLANNING BOUNDARIES,
AND THE CITY OF NORTHVILLE'S REQUEST TO BE INCLUDED IN
THE WAYNE COUNTY SOLID WASTE MANAGEMENT PLAN OF 1998.
(REF: 98-70-008)

Dear Chairman Solomon:

The County Executive's Office, and the Office of the Corporation Counsel have reviewed and approved the attached request from the Department of Environment for approval of the above-referenced project.

The City of Northville sits astride the Wayne County/Oakland County border. The City of Northville has requested that it be included within the Wayne County Solid Waste Management Plan and excluded from the Oakland County Solid Waste Management Plan.

Act 451 of 1994 as amended provides that such an arrangement shall be approved by a Resolution of the Board of Commissioners of each of the involved counties.

The City of Northville has previously been included within the Wayne County Solid Waste Management Plan and such an arrangement is eminently practical.

Therefore, it is requested that the Wayne County Commission adopt the appropriate Resolution providing for the following action:

DEPARTMENT OF ENVIRONMENT
415 CLIFFORD, DETROIT, MICHIGAN 48226 • 313-224-3620

RESOLUTION

No. 98-107

By Commissioner Blackwell

RESOLVED, by the Wayne County Commission this 19th day of February, 1998 that approval be, and is hereby, granted authorizing the delineation of Wayne County Solid Waste Planning boundaries and the inclusion of the City of Northville into the Wayne County Solid Waste Management Plan of 1998, as recommended by the Chief Executive Officer.

(98-70-008)

September 10, 1997

Gary L. Word, Manager
City of Northville
215 West Main Street
Northville, Michigan 48167

Re: Act 451 Solid Waste Management Plan Update
Oakland County

Dear Mr. Word:

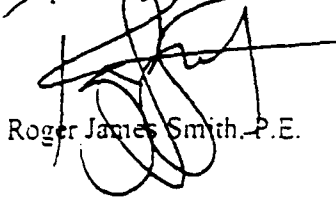
The Michigan Department of Environmental Quality has requested that each county update its solid waste management plan. Oakland County has therefore started the process. Historically, Northville has been incorporated within the Wayne County solid waste planning process and we are assuming that this association will continue.

Section 11536 of Act 451 of 1994 as amended provides that such an arrangement shall be approved by a resolution of the County boards of commissioners of the counties involved. In order that proper records may be kept on this issue, we proposed that the following process be initiated.

1. Northville should request of both Oakland and Wayne counties that the community continue to be included within the Wayne County solid waste management plan.
2. Each Board of Commissioners would adopt a resolution approving of such an arrangement, forwarding a copy to Northville and the other county.
3. The two Board resolutions and Northville's request then become published records in Appendix E of each county's Plan Update as required by the Michigan Department of Environmental Quality standard plan format which was issued to the solid waste planning agencies this past week.

Thanks much for your assistance on this matter and upon receipt of Northville's request, we will immediately process the appropriate Board resolution for approval.

Respectfully submitted,


Roger James Smith, P.E.

Attachment

cc: Robert Fredericks, Interim Director, Wayne County Land Resources Management Division

Suggested Resolution

December 2, 1997

Miscellaneous Resolution #97

BY: Planning & Building Committee, Charles E. Palmer, Chairperson

IN RE: Delineation of Oakland County Solid Waste Planning Boundaries

To the Oakland County Board of Commissioners

Chairperson, Ladies and Gentlemen:

WHEREAS the City of Northville sits astride the Oakland County / Wayne County border, and

WHEREAS the City of Northville has requested that it be included within the Wayne County Solid Waste Management Plan and excluded from the Oakland County Solid Waste Management Plan, and

WHEREAS Act 451 of 1994 as amended provides that such an arrangement shall be approved by a resolution of the Board of Commissioners of each of the involved counties, and

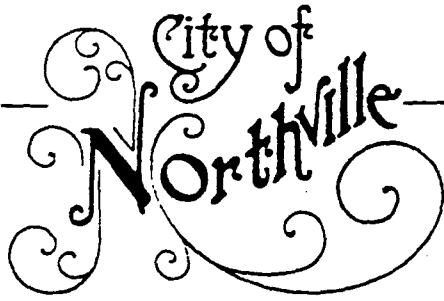
WHEREAS the City of Northville has previously been included within the Wayne County Solid Waste Management Plan and such an arrangement is eminently practical.

NOW THEREFORE BE IT RESOLVED THAT the Oakland County Board of Commissioners does herewith approve of Northville's request that it be excluded from the Oakland County Solid Waste Management Plan, and

FURTHER BE IT RESOLVED THAT copies of this resolution be provided to the City of Northville and to the Wayne County Board of Commissioners, and

BE IT FINALLY RESOLVED THAT the Oakland County Solid Waste Planning Committee and the Oakland County Act 451 Designated Planning Agent be advised of this action and requested to exclude the City of Northville from the current planning efforts.

PLANNING AND BUILDING COMMITTEE



20 NOV 97 9
-W.C. LUTZ-

215 W. Main Street • Northville, Michigan 48167-1599
Phone: (810) 349-1300 • FAX: (810) 349-9244

November 17, 1997

Mr. Robert Fredericks, Interim Director
Wayne County Land Resources Management Division
415 Clifford Street
Detroit, MI 48226

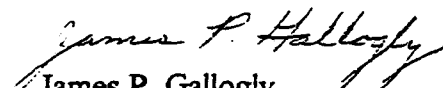
Re: Act 451 Solid Waste Management Plan Update

Dear Mr. Fredericks:

The City of Northville is aware that the Michigan Department of Environmental Quality has requested that each County update its solid waste management plan. As you begin this process for Wayne County, Northville respectfully requests that it be included in the Wayne County solid waste management plan. Northville, as you know is located in both Oakland County and Wayne County. Historically, the City has been incorporated within the Wayne County solid waste planning process, and we would like this association to continue.

Should you have any questions concerning this matter, please feel free to contact me.

Sincerely,


James P. Gallogly
Public Works Director

cc: Gary Word, City Manager
Roger Smith, Manager Oakland County Solid Waste Management Division

APPENDIX O

LISTED CAPACITY

Listed Capacity

The following documents detail Wayne County's access to the listed capacity of the landfills to be used.

A letter was sent to all operating landfills within Wayne County as well as landfills in other Michigan counties that accept waste from Wayne County requesting verification that Wayne County will have access to the Plan's listed capacity.



September 6, 2000

Edward H. McNamara
County Executive

SEP 11 2000

Mr. Jerome S. Amber
Environmental Quality Office
Ford Motor Company
One Park Lane Boulevard
Suite 1400 East
Dearborn, MI 48126-2477

Re: Allen Park Clay Mine

Dear Mr. Amber:

Wayne County is in the process of finalizing the update of its Solid Waste Management Plan. This updated plan is virtually unchanged in relation to the major components of the existing Plan, which relies on private and public waste enterprises to handle Wayne County's waste disposal needs. As such, your facility is a vital component of our existing Plan and proposed update. The current annual and future volumes available at your facility are identified in the update.

To address requirements of the Michigan Department of Environmental Quality, Wayne County requests confirmation that these volumes are available to the residents and businesses of Wayne County. The County is not requesting a commitment of the total volume at our facility because waste imports into Wayne County will continue with the adoption of the updated Plan. The County requests that you acknowledge your intent to continue to accept Wayne County waste into your facility as you have in the past. While waste disposal volumes continue at current levels, there is sufficient capacity available to handle Wayne County's disposal needs beyond the ten years required by State law.

To comply with MDEQ requirements, Wayne County must confirm that your landfill will continue to accept waste volumes from Wayne County sources. To this end, please acknowledge this commitment by signing the acknowledgement section below and return the original signed copy for the Wayne County files.

Thank you for your continuing assistance and participation in making Wayne County's Solid Waste Management Plan successful. If you have any questions regarding this letter or the Solid Waste Plan Update, please contact me at (734) 326-4494.

Sincerely,

Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

Acknowledged by:

FORD ALLEN PARK CLAY MINE LANDFILL

Facility Name

Operator / Owner Signature

9/11/2000

Date

Manager, Site and Contract Services

Title



September 27, 2000

Edward H. McNamara
County ExecutiveCitizens Disposal Landfill
2361 West Grand Blanc Road
Grand Blanc, MI 48439

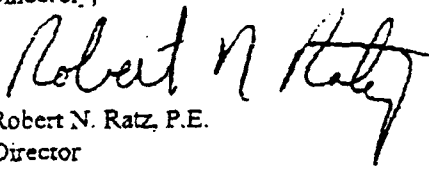
Dear Owner/Operator:

Wayne County is in the process of finalizing the update of its Solid Waste Management Plan. This updated plan is virtually unchanged in relation to the major components of the existing Plan, which utilizes private and public waste enterprises inside and outside of Wayne County to handle Wayne County's waste disposal needs. Your facility has been identified in the proposed update as a facility that accepts waste from Wayne County. As such the current annual and future volumes available at your facility are identified in the update. To address requirements of the Michigan Department of Environmental Quality, we are requesting confirmation that your facility will continue to accept Wayne County waste at your facility. The County is only requesting acknowledgement that your facility will continue to accept waste at levels consistent with previous years. There is sufficient capacity within Wayne County that exporting is not mandatory however we understand and encourage importation and exportation as it benefits the local communities and businesses.

To comply with MDEQ requirements, Wayne County must confirm that your landfill will continue to accept waste volumes from Wayne County sources. To this end, please acknowledge this commitment by signing the acknowledgement section below and return the original signed copy for the Wayne County files.

Thank you for your continuing assistance and participation in making Wayne County's Solid Waste Management Plan successful. If you have any questions regarding this letter or the Solid Waste Plan Update, please contact me at (734) 326-4494.

Sincerely,


Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

Acknowledged by:


Citizens Disposal, Inc.
Facility Name

Operator/Owner Signature

10/6/00
DateEnvironmental Manager
Title



EAGLE VALLEY RECYCLE AND DISPOSAL FACILITY
A WASTE MANAGEMENT COMPANY

600 West Silver Bell Road
Orion, Michigan 48359
(248) 391-0990
(248) 391-1539 Fax

October 23, 2000

Mr. Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division
3600 Commerce Court
Building E
Wayne, MI 48184

RE: Wayne County Solid Waste

The following is in response to your request for documentation regarding the disposal of Wayne County solid waste at Eagle Valley Recycle and Disposal Facility in Oakland County.

Solid waste that is generated in Wayne County can be accepted for disposal at Eagle Valley Recycle and Disposal Facility. Disposal capacity for Wayne County will be available in accordance with the Oakland County Solid Waste Plan.

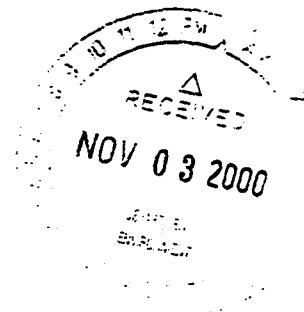
If you have any questions, please call me at 248-391-0990.

Regards,

A handwritten signature in black ink, appearing to read 'John A. Spokaeski'.

John A. Spokaeski
District Manager

JAS-1442L





September 27, 2000

Edward H. McNamara
County Executive

Pine Tree Acres Landfill
36600 29 Mile Road
Lenox, MI 48050

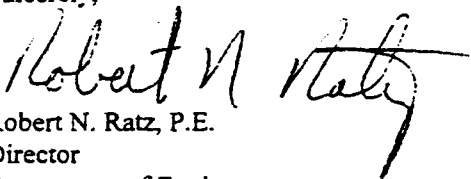
Dear Owner/Operator:

Wayne County is in the process of finalizing the update of its Solid Waste Management Plan. This updated plan is virtually unchanged in relation to the major components of the existing Plan, which utilizes private and public waste enterprises inside and outside of Wayne County to handle Wayne County's waste disposal needs. Your facility has been identified in the proposed update as a facility that accepts waste from Wayne County. As such the current annual and future volumes available at your facility are identified in the update. To address requirements of the Michigan Department of Environmental Quality, we are requesting confirmation that your facility will continue to accept Wayne County waste at your facility. The County is only requesting acknowledgment that your facility will continue to accept waste at levels consistent with previous years. There is sufficient capacity within Wayne County that exporting is not mandatory however we understand and encourage importation and exportation as it benefits the local communities and businesses.

To comply with MDEQ requirements, Wayne County must confirm that your landfill will continue to accept waste volumes from Wayne County sources. To this end, please acknowledge this commitment by signing the acknowledgement section below and return the original signed copy for the Wayne County files.

Thank you for your continuing assistance and participation in making Wayne County's Solid Waste Management Plan successful. If you have any questions regarding this letter or the Solid Waste Plan Update, please contact me at (734) 326-4494.

Sincerely,


Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

Acknowledged by:

Pine Tree Acres Landfill
Facility Name

 10-2-2K
Operator / Owner Signature Date

Division Manager
Title



OAKLAND HTS
OCT 02 2000
DEVELOPMENT

September 27, 2000

Edward H. McNamara
County Executive

Oakland Heights Development
2350 Brown Road
Auburn Hills, MI 48326-1705

Dear Owner/Operator:

Wayne County is in the process of finalizing the update of its Solid Waste Management Plan. This updated plan is virtually unchanged in relation to the major components of the existing Plan, which utilizes private and public waste enterprises inside and outside of Wayne County to handle Wayne County's waste disposal needs. Your facility has been identified in the proposed update as a facility that accepts waste from Wayne County. As such the current annual and future volumes available at your facility are identified in the update. To address requirements of the Michigan Department of Environmental Quality, we are requesting confirmation that your facility will continue to accept Wayne County waste at your facility. The County is only requesting acknowledgment that your facility will continue to accept waste at levels consistent with previous years. There is sufficient capacity within Wayne County that exporting is not mandatory however we understand and encourage importation and exportation as it benefits the local communities and businesses.

To comply with MDEQ requirements, Wayne County must confirm that your landfill will continue to accept waste volumes from Wayne County sources. To this end, please acknowledge this commitment by signing the acknowledgement section below and return the original signed copy for the Wayne County files.

Thank you for your continuing assistance and participation in making Wayne County's Solid Waste Management Plan successful. If you have any questions regarding this letter or the Solid Waste Plan Update, please contact me at (734) 326-4494.

Sincerely,

Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

Acknowledged by:

OAKLAND HEIGHTS DEVELOPMENT INC
Facility Name

Bill Dolan
Operator / Owner Signature

10/2/00
Date

SITS MANAGER
Title



September 27, 2000

Edward H. McNamara
County Executive

Arbor Hills Landfill
10690 West Six Mile Road
Northville, MI 48167

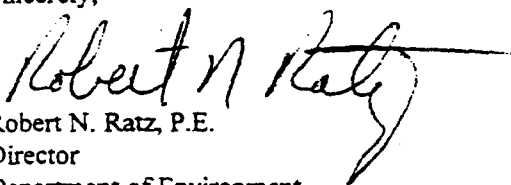
Dear Owner/Operator:

Wayne County is in the process of finalizing the update of its Solid Waste Management Plan. This updated plan is virtually unchanged in relation to the major components of the existing Plan, which utilizes private and public waste enterprises inside and outside of Wayne County to handle Wayne County's waste disposal needs. Your facility has been identified in the proposed update as a facility that accepts waste from Wayne County. As such the current annual and future volumes available at your facility are identified in the update. To address requirements of the Michigan Department of Environmental Quality, we are requesting confirmation that your facility will continue to accept Wayne County waste at your facility. The County is only requesting acknowledgment that your facility will continue to accept waste at levels consistent with previous years. There is sufficient capacity within Wayne County that exporting is not mandatory however we understand and encourage importation and exportation as it benefits the local communities and businesses.

To comply with MDEQ requirements, Wayne County must confirm that your landfill will continue to accept waste volumes from Wayne County sources. To this end, please acknowledge this commitment by signing the acknowledgement section below and return the original signed copy for the Wayne County files.

Thank you for your continuing assistance and participation in making Wayne County's Solid Waste Management Plan successful. If you have any questions regarding this letter or the Solid Waste Plan Update, please contact me at (734) 326-4494.

Sincerely,


Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

Acknowledged by:

Onyx Arbor Hills Landfill, Inc.
Facility Name

Eric H. Hinton 10-3-00
Operator / Owner Signature Date

General Manager
Title



September 27, 2000

Edward H. McNamara
County Executive

Adrian Landfill
1970 North Ogden Highway
Adrian, MI 49221

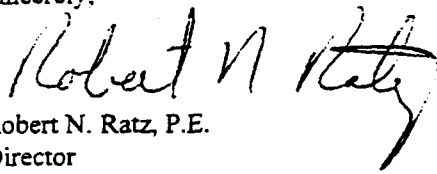
Dear Owner/Operator:

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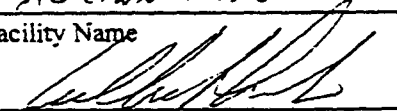
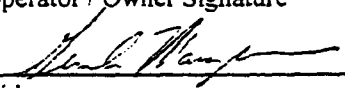
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Sincerely,


Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

Acknowledged by:

ADRIAN LANDFILL
Facility Name

Operator / Owner Signature
10/2/00
Date

Title



September 6, 2000

Edward H. McNamara
County Executive

Mr. Richard W. Spencer
Division Manager
Waste Management of Michigan, Inc.
5900 Hannan Road
Wayne, MI 48184

Re: Woodland Meadows - Van Buren

Dear Mr. Spencer:

Wayne County is in the process of finalizing the update of its Solid Waste Management Plan. This updated plan is virtually unchanged in relation to the major components of the existing Plan, which relies on private and public waste enterprises to handle Wayne County's waste disposal needs. As such, your facility is a vital component of our existing Plan and proposed update. The current annual and future volumes available at your facility are identified in the update.

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Sincerely,

Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

Acknowledged by:

Woodland Meadows
Facility Name

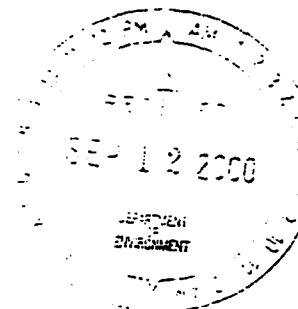
Richard W. Spencer
Operator / Owner Signature

10-20-00
Date

Division Manager
Title



Edward H. McNamara
County Executive



September 6, 2000

Mr. Dennis Leonard
Detroit Edison Company
2000 Second Avenue
Room 1170 WCB
Detroit, MI 48226

Re: Sibley Quarry

Dear Mr. Leonard:

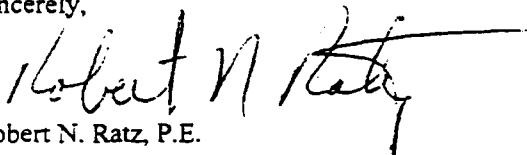
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Thank you for your continuing assistance and participation in making Wayne County's Solid Waste Management Plan successful. If you have any questions regarding this letter or the Solid Waste Plan Update, please contact me at (734) 326-4494.

Sincerely,



Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

Acknowledged by:

Sibley Quarry, Detroit Edison
Facility Name

Dennis Leonard 9-9-00
Operator / Owner Signature Date

Principal Engineer, Detroit Edison
Title



September 6, 2000

Edward H. McNamara
County Executive

Ms. Angela Leonard
Environmental Manager
Sauk Trail Development, Inc.
5011 South Lilley
Canton, MI 48188

Re: Sauk Trail Hills Landfill

Dear Ms. Leonard:

Wayne County is in the process of finalizing the update of its Solid Waste Management Plan. This updated plan is virtually unchanged in relation to the major components of the existing Plan, which relies on private and public waste enterprises to handle Wayne County's waste disposal needs. As such, your facility is a vital component of our existing Plan and proposed update. The current annual and future volumes available at your facility are identified in the update.

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Thank you for your continuing assistance and participation in making Wayne County's Solid Waste Management Plan successful. If you have any questions regarding this letter or the Solid Waste Plan Update, please contact me at (734) 326-4494.

Sincerely,

Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

Acknowledged by:

Sauk Trail Development Inc.
Facility Name

Operator / Owner Signature

9/22/00
Date

ENVIRONMENTAL MANAGER
Title



Edward H. McNamara
County Executive

RECEIVED
SEP - 7 2000
PUBLIC SERVICE

September 6, 2000

Mr. Robert J. Beckley
Director of Public Works
City of Livonia
12973 Farmington Road
Livonia, MI 48150

Re: City of Livonia Landfill

Dear Mr. Beckley:

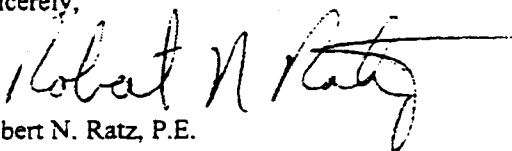
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Sincerely,

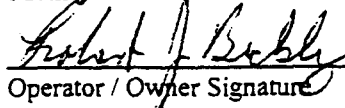


Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

Acknowledged by:

CITY OF LIVONIA LANDFILL

Facility Name



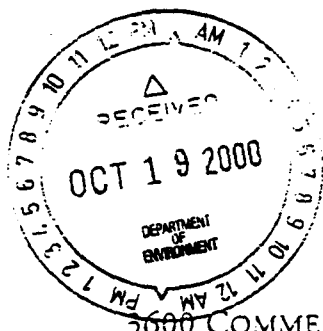
Operator / Owner Signature

10-19-00

Date

Director of Public Works

Title



DEPARTMENT OF ENVIRONMENT

3600 COMMERCE COURT • BUILDING E • WAYNE, MICHIGAN 48184

(734) 326-3936 FAX (734) 326-4421



September 6, 2000

Edward H. McNamara
County Executive

Mr. Thomas Boldrick
Edward C. Levy Co.
8800 Dix Ave.
Detroit, MI 48209

Re: Edward C. Levy Co. Landfill

Dear Mr. Boldrick:

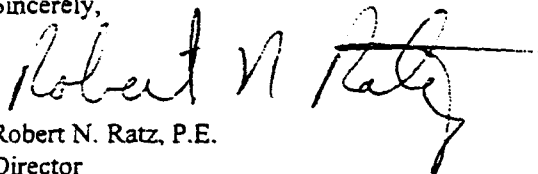
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Sincerely,



Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

Acknowledged by:

EDW. C. LEVY CO. LANDFILL
Facility Name

Thomas J. Boldrick
Operator / Owner Signature

9/17/00
Date

VICE PRESIDENT
Title



September 6, 2000

Edward H. McNamara
County Executive

Mr. Richard Shirley
Executive Director
Central Wayne County Sanitation Authority
4901 South Inkster Road
Dearborn Heights, MI 48125

Re: Huron Monofill

Dear Mr. Shirley:

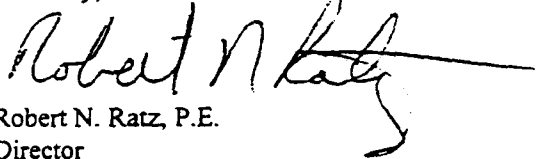
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Sincerely,


Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

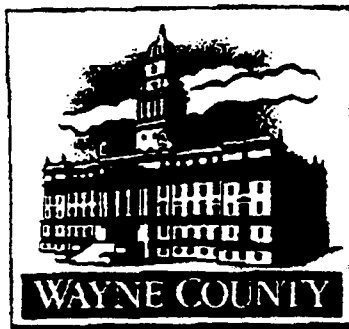
Acknowledged by:

Central Wayne County Sanitation Authority
Facility Name


Operator/Owner Signature

9-7-00
Date

Executive Director
Title



September 6, 2000

Edward H. McNamara
County ExecutiveMr. Matt Wilkinson
1491 W. Jefferson Ave.
Trenton, MI 48183

Re: Countywide Landfill

Dear Mr. Wilkinson:

Wayne County is in the process of finalizing the update of its Solid Waste Management Plan. This updated plan is virtually unchanged in relation to the major components of the existing Plan, which relies on private and public waste enterprises to handle Wayne County's waste disposal needs. As such, your facility is a vital component of our existing Plan and proposed update. The current annual and future volumes available at your facility are identified in the update.

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Sincerely,

Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

Acknowledged by:

Countywide Landfills
Facility NameMatthew
Operator / Owner Signature9/8/00
DatePresident
TitleDEPARTMENT OF ENVIRONMENT
3600 COMMERCE COURT • BUILDING E • WAYNE, MICHIGAN 48184

(734) 326-3936 FAX (734) 326-4421

RECEIVED DATE : 10/14/00 15:20 FROM : 734 246 4020



September 6, 2000

Edward H. McNamara
County Executive

Mr. Brian Ezyk
Carleton Farms
P.O. Box 634
New Boston, MI 48164

Re: Carleton Farms Landfill

Dear Mr. Ezyk:

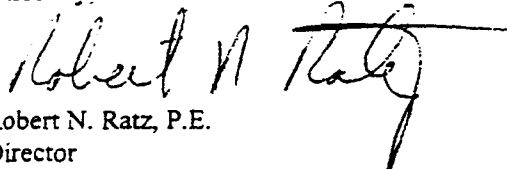
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Sincerely,


Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

Acknowledged by:



Facility Name

CARLETON FARMS LANDFILL 9/13/00
Operator / Owner Signature Date

AREA PRESIDENT

Title



September 27, 2000

Edward H. McNamara
County Executive

Vienna Junction Landfill
6479 Dixie Hwy.
Erie, MI 48133

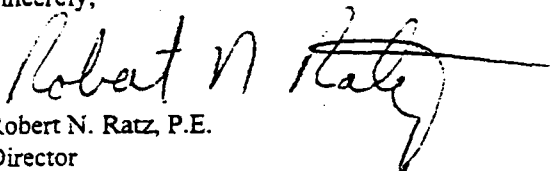
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Sincerely,


Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

Acknowledged by:
BFI Waste Systems of North America, Inc.
Vienna Junction Landfill

Facility Name


Operator / Owner Signature

October 4, 2000
Date

District Manager
Title

DEPARTMENT OF ENVIRONMENT
3600 COMMERCE COURT • BUILDING E • WAYNE, MICHIGAN 48184

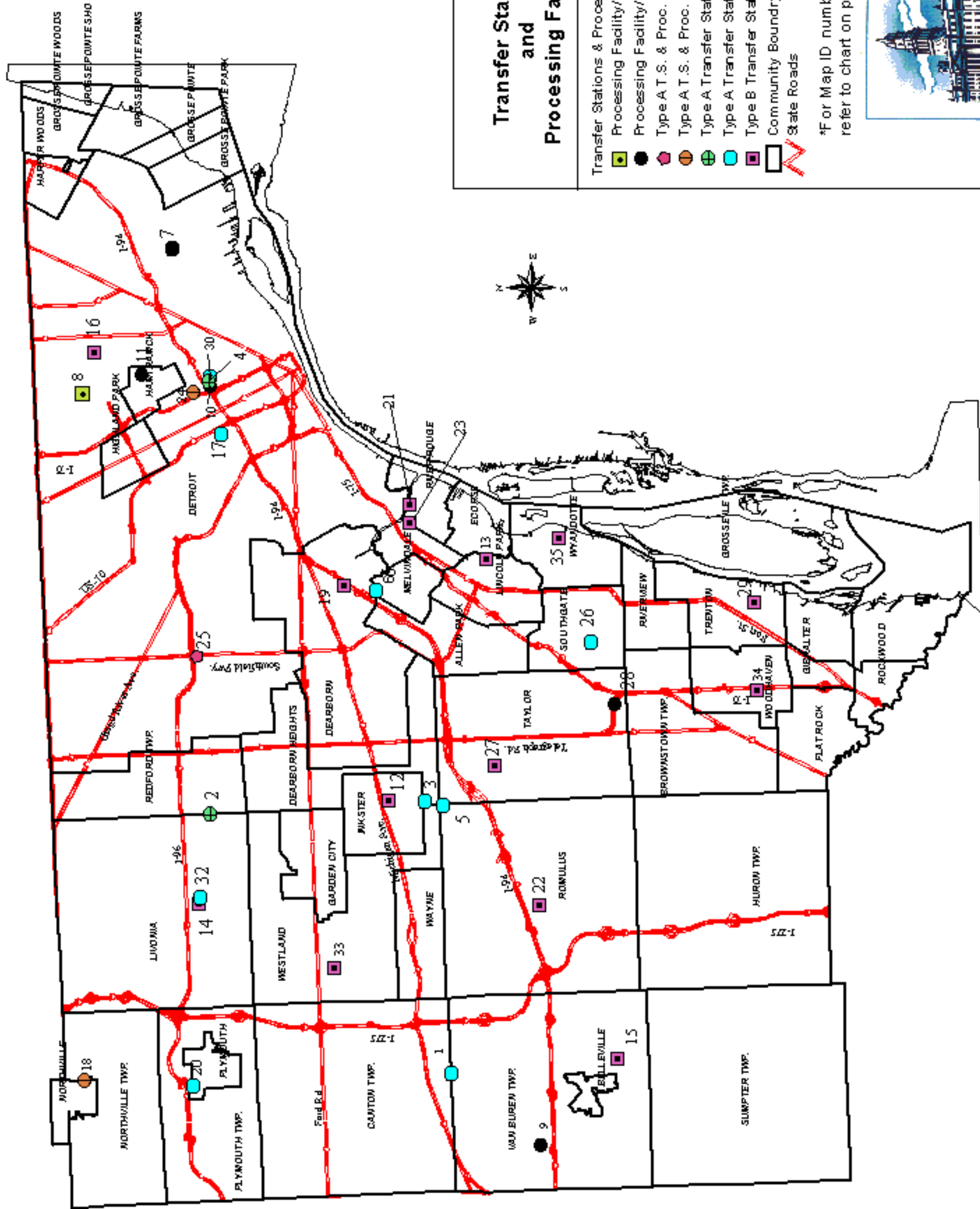
(734) 326-2026 FAX (734) 326-1121

APPENDIX P

MAPS

Maps

The following maps show locations of solid waste disposal facilities used by Wayne County.



Transfer Stations and Processing Facilities

Transfer Stations & Processing Facilities

- Processing Facility/Closed
- Processing Facility/Open
- Type A T.S. & Proc. Fac./ Closed
- Type A T.S. & Proc. Fac./ Open
- Type A Transfer Station/Closed
- Type A Transfer Station/Open
- Type B Transfer Station/Open
- Community Boundary
- State Roads

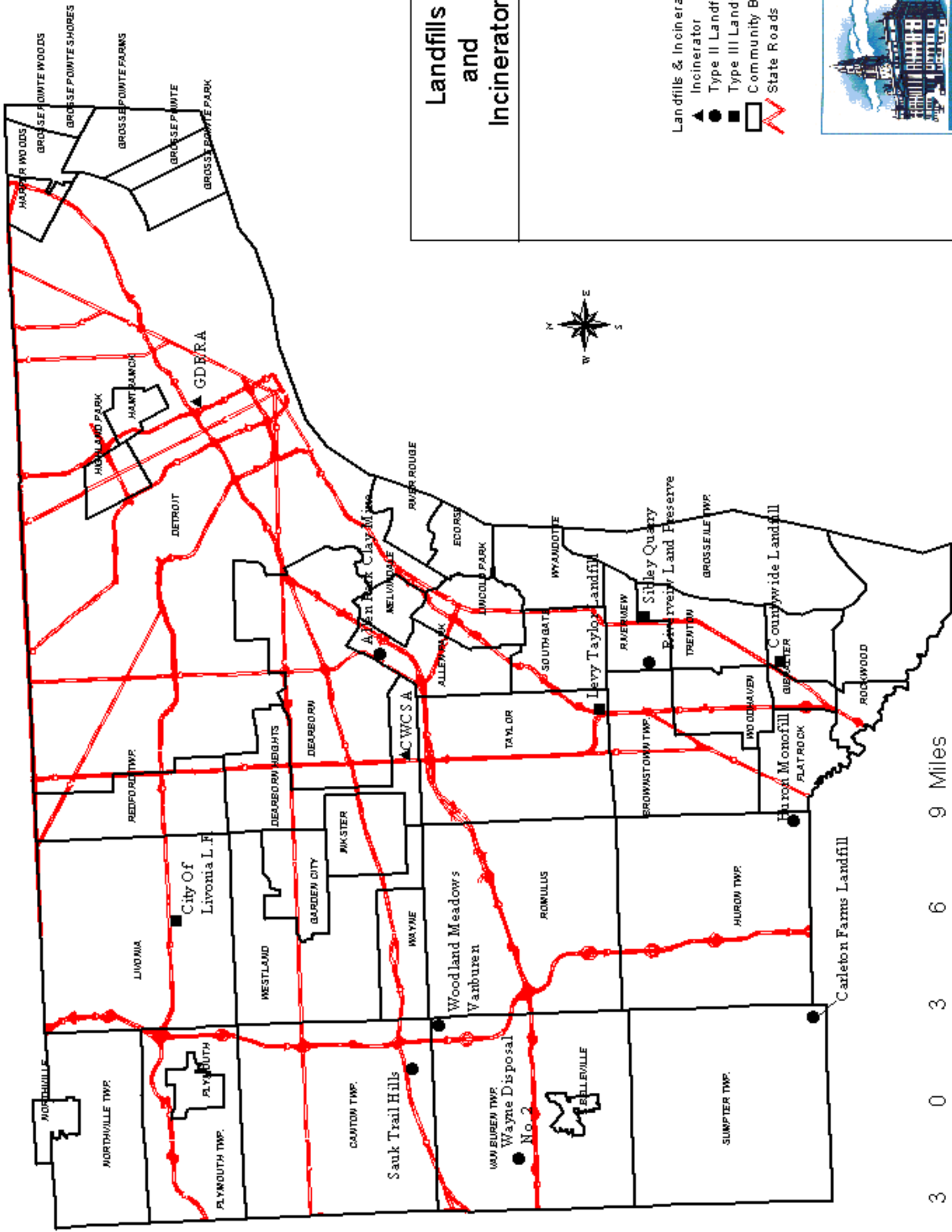
*For Map ID numbers refer to chart on page 27.



10 Miles

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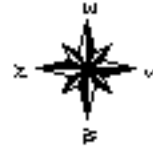


Landfills and Incinerators

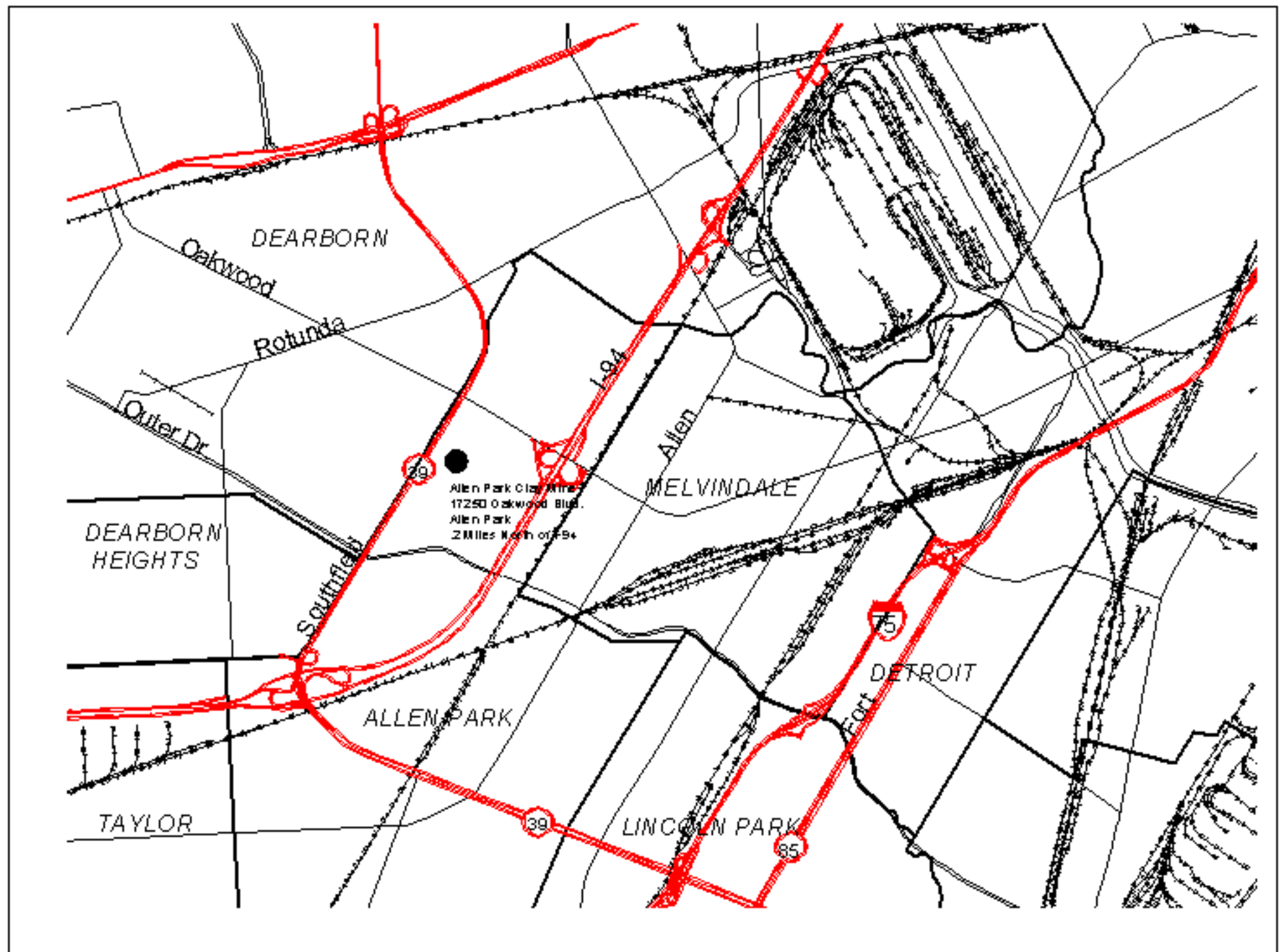
- Landfills & Incinerators
- ▲ Incinerator
 - Type II Landfill
 - Type III Landfill
 - Community Boundary
 - State Roads



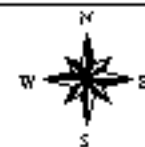
3 0 3 6 9 Miles



Allen Park Clay Mine Site Location Map

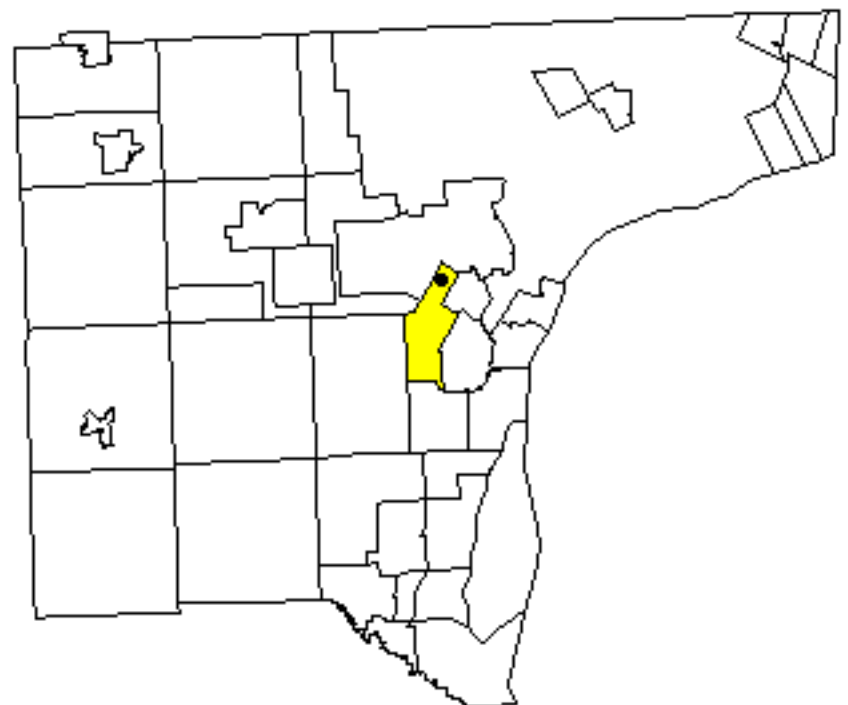


1 0 1 2 Miles

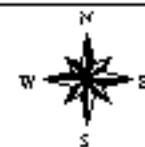
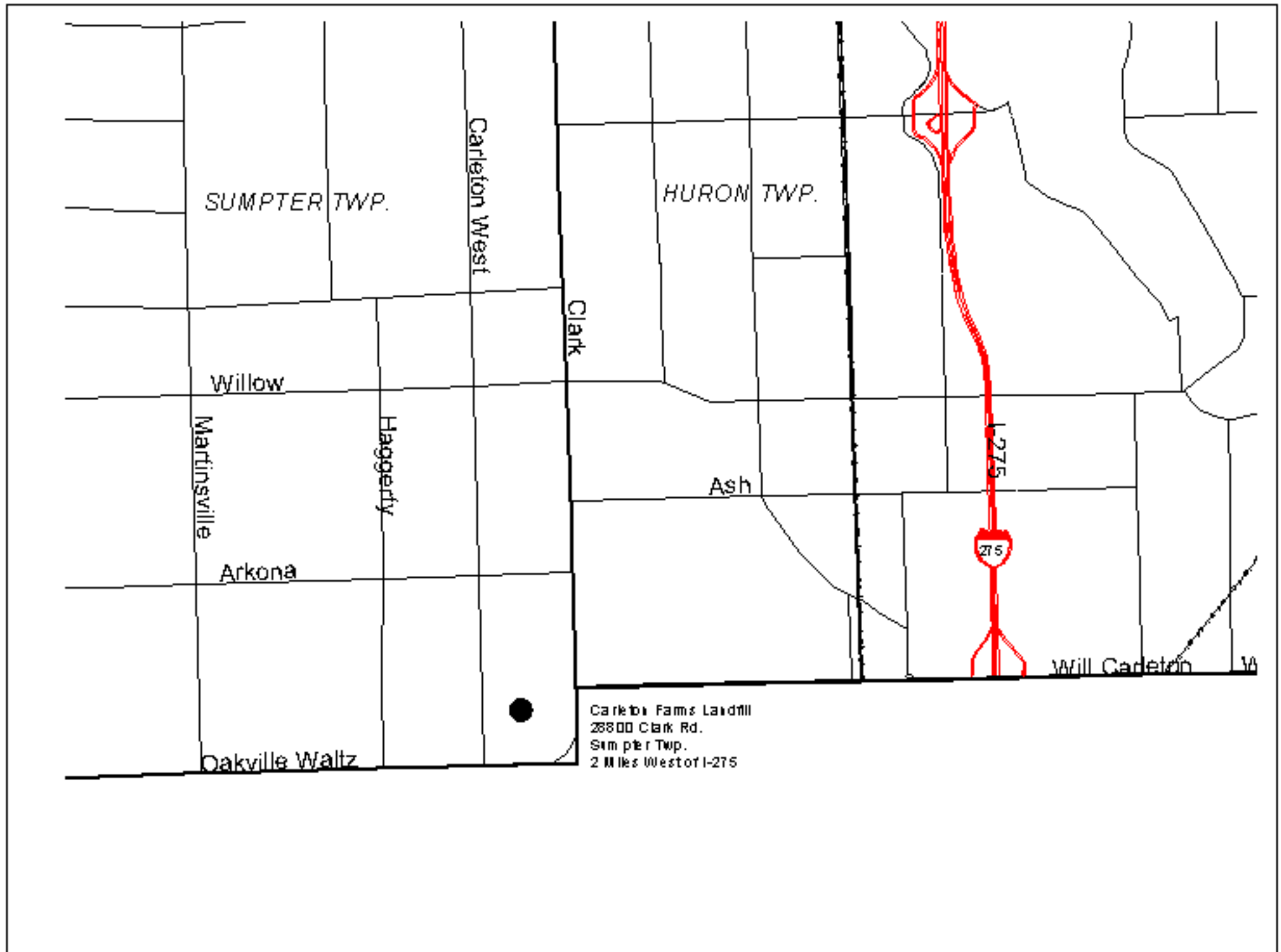


Legend

- Landfill Location
- State Roads
- County Roads
- Railroads
- Community

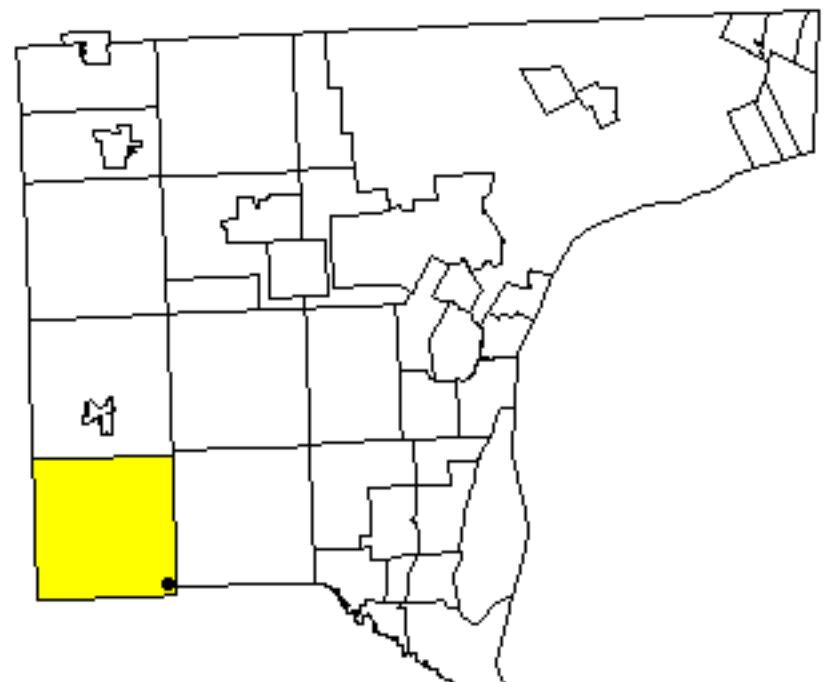


Carleton Farms Site Location Map

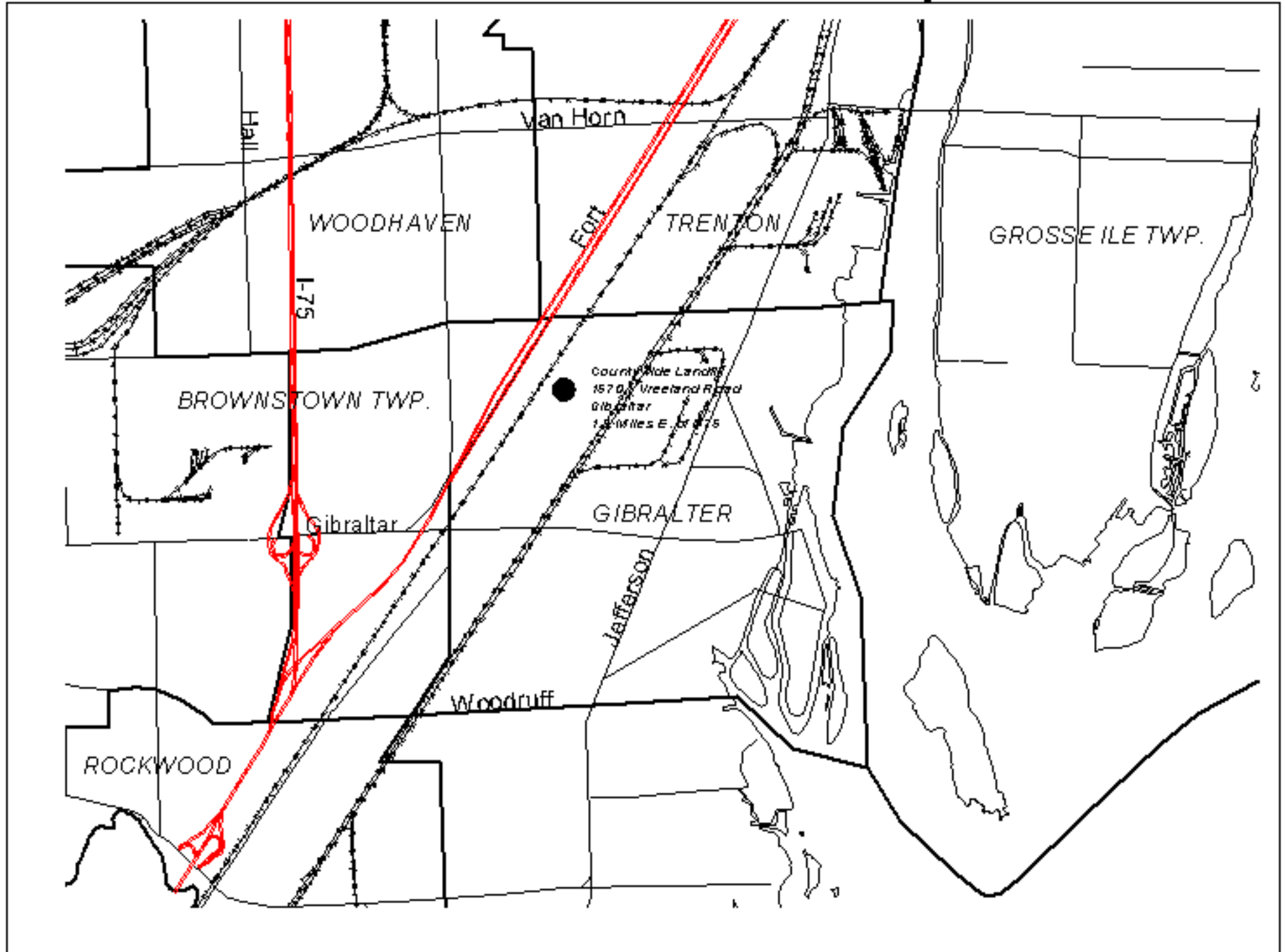


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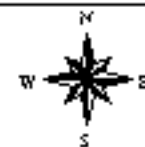
- Landfill Location
- State Roads
- County Roads
- Railroads
- Community



Countywide Landfill Site Location Map

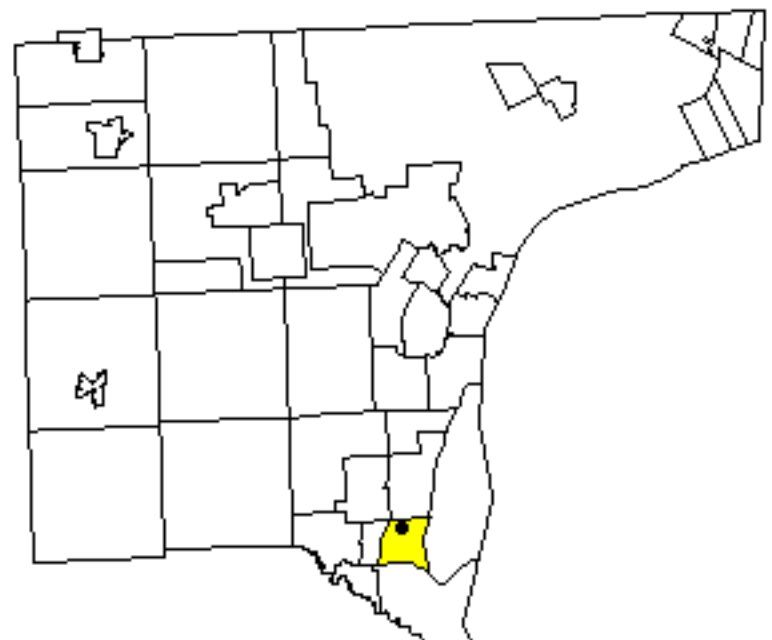


1 0 1 2 Miles

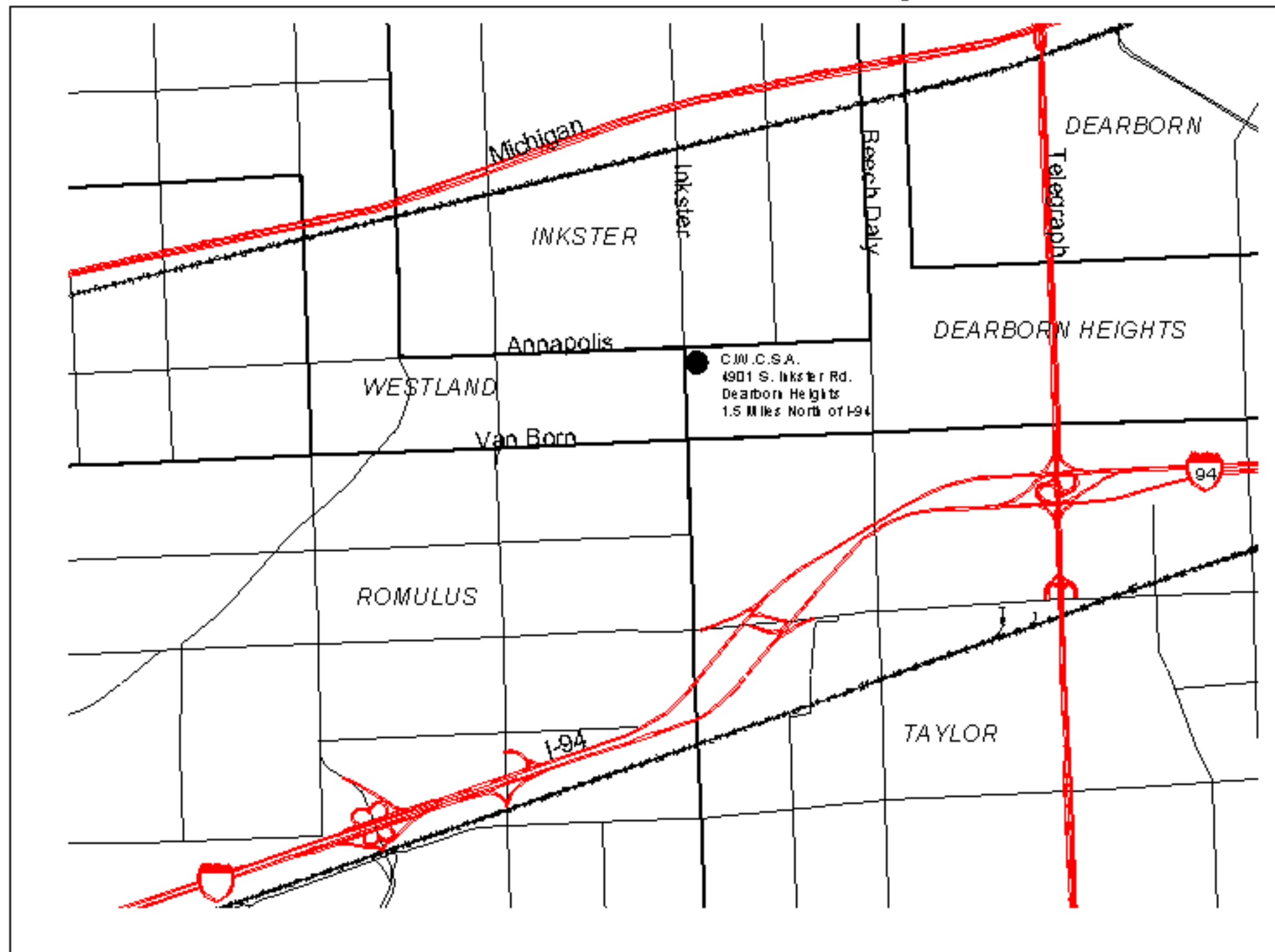


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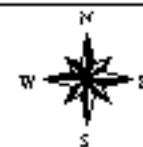
- Landfill Location
- State Roads
- County Roads
- Railroads
- Community



C.W.C.S.A. Incinerator Site Location Map

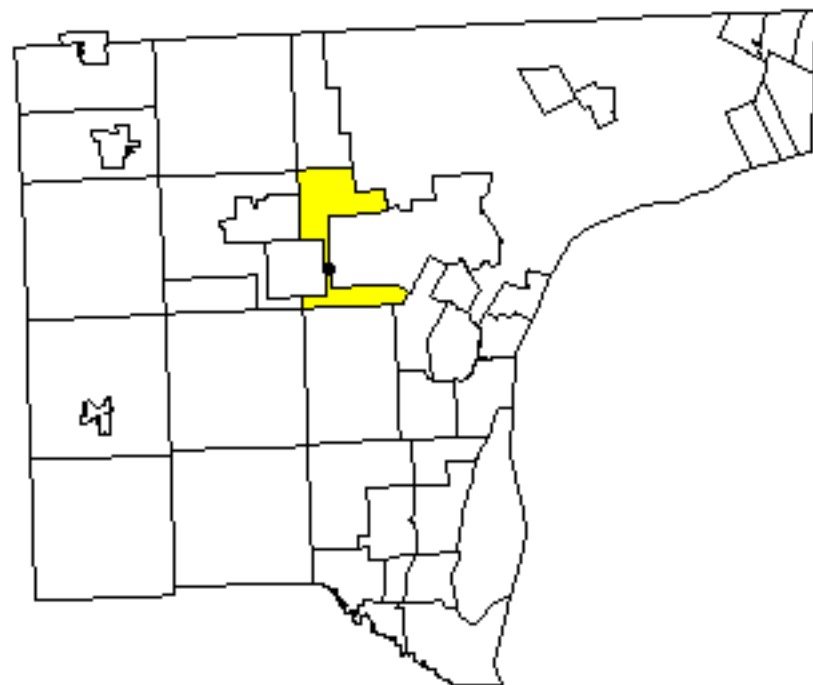


1 0 1 2 Miles



Legend

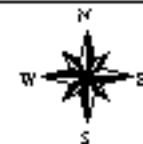
- Incinerator Location
- State Roads
- County Roads
- Railroads
- Community



E. C. Levy Landfill Site Location Map

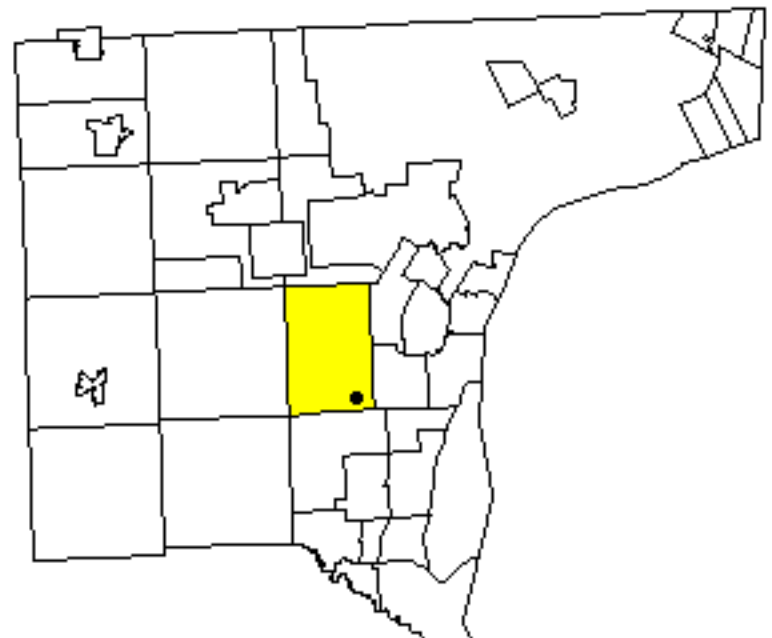


1 0 1 2 Miles

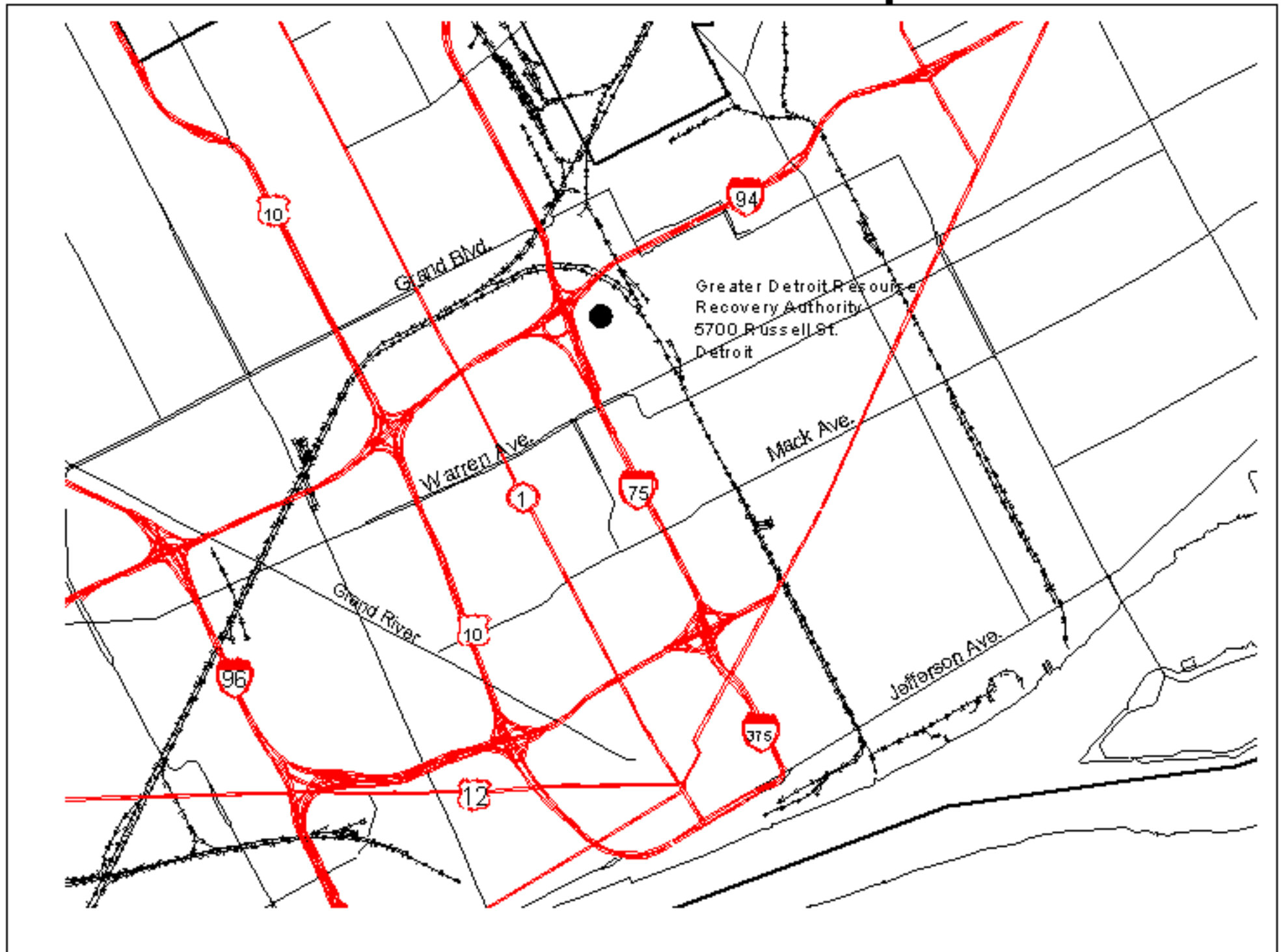


Legend

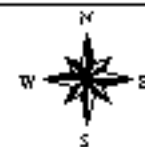
-  Landfill Location
-  State Roads
-  County Roads
-  Railroads
-  Community



G.D.R.R.A. Incinerator Site Location Map

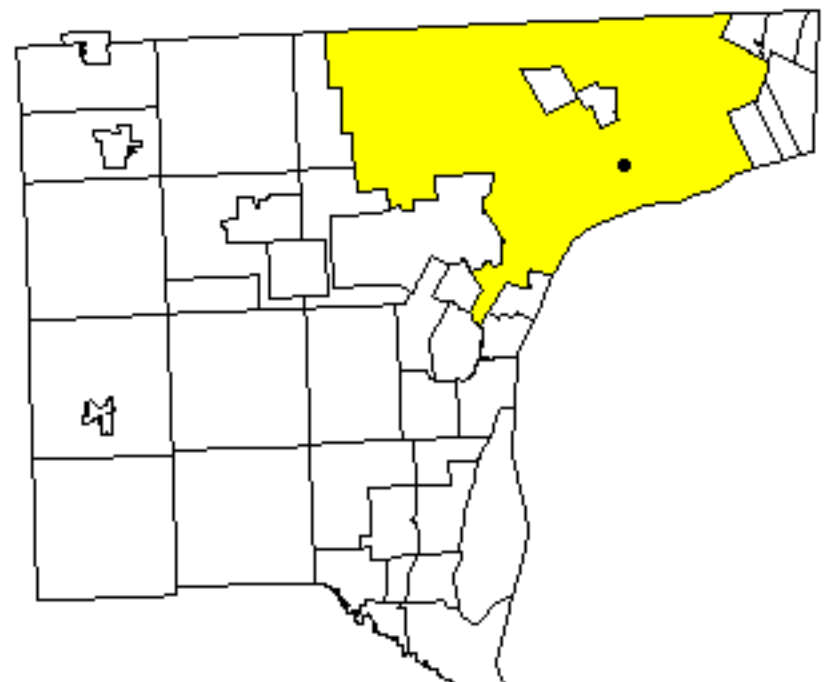


1 0 1 2 Miles

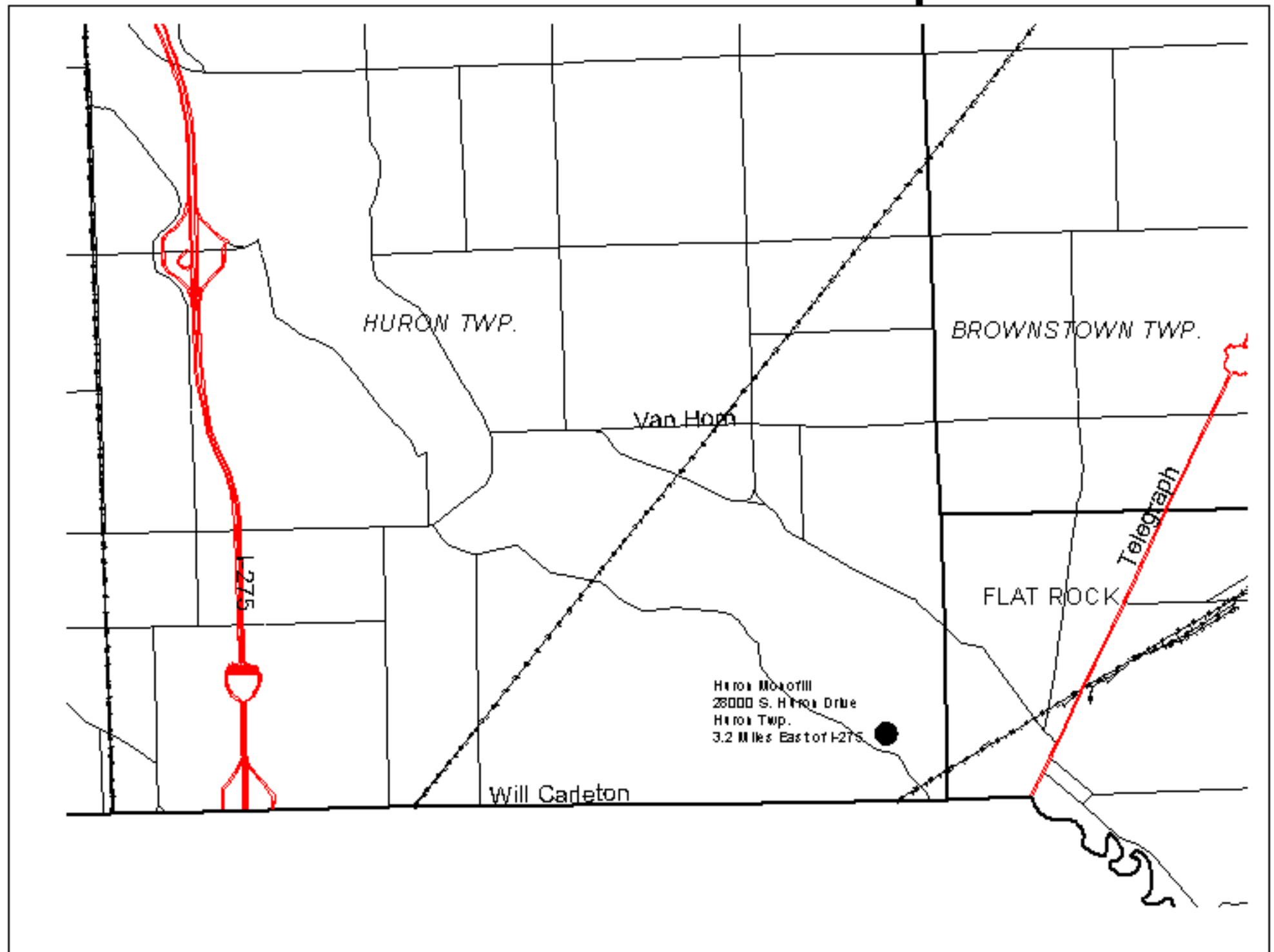


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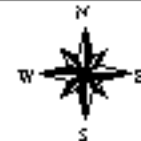
- Incinerator Location
- State Roads
- County Roads
- Railroads
- Community



Huron Monofill Site Location Map

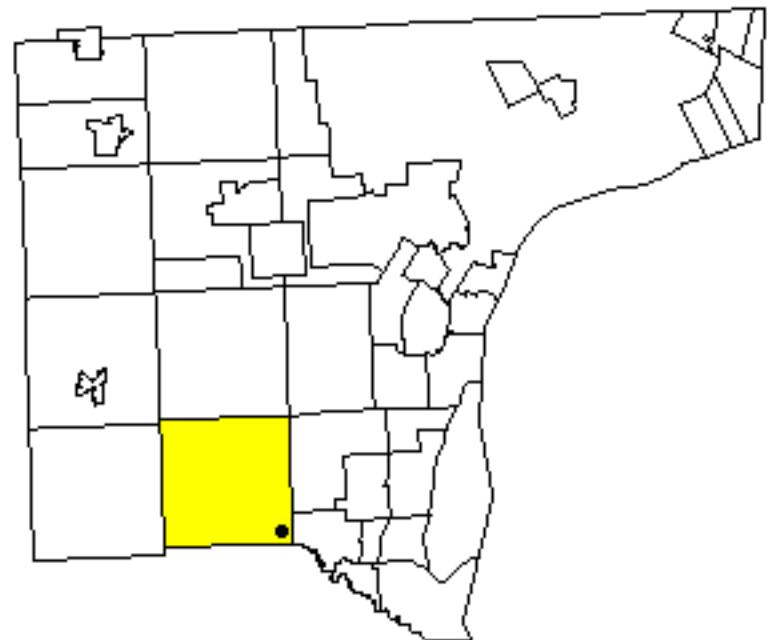


1 0 1 2 Miles

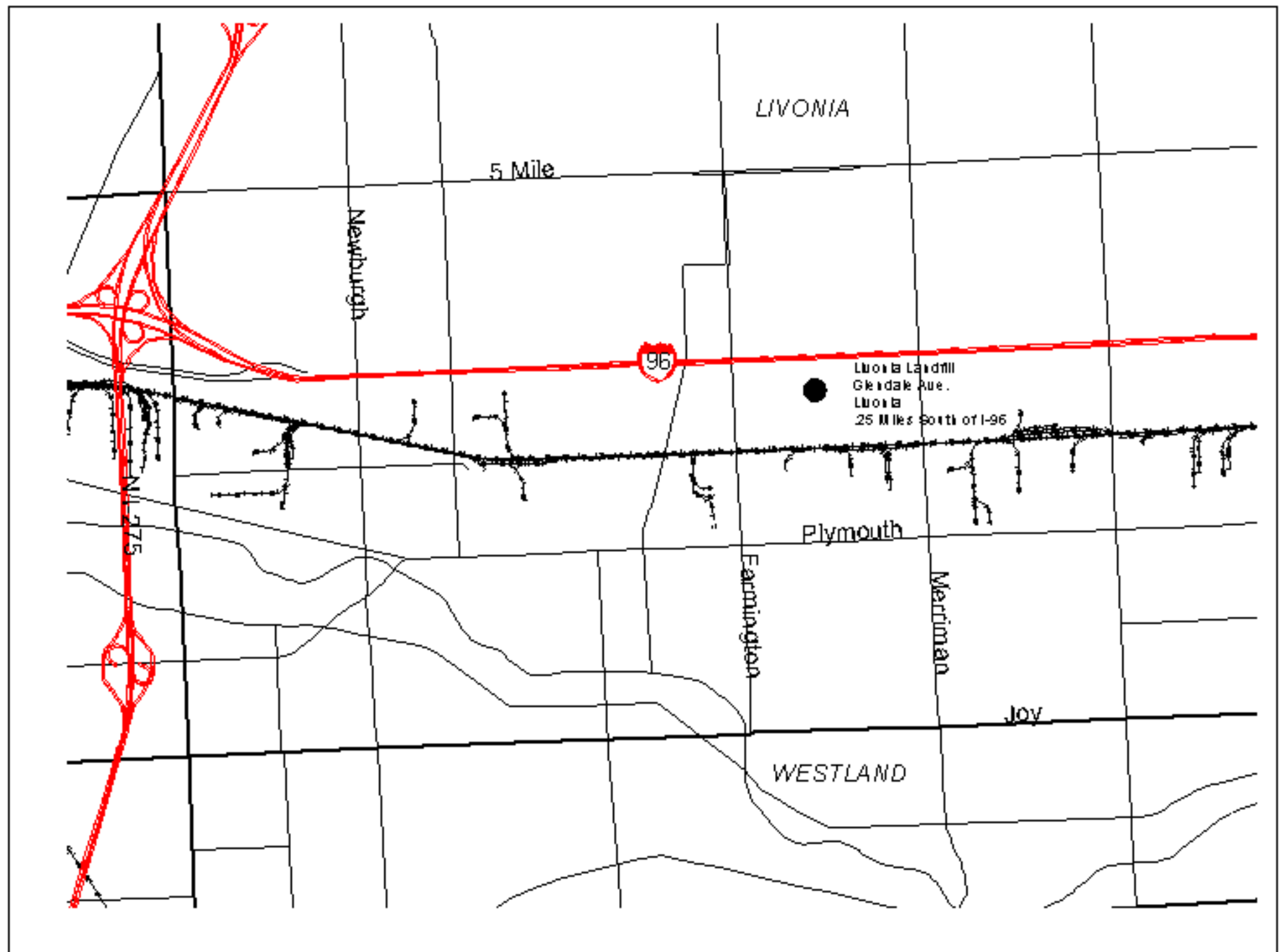


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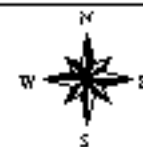
- Landfill Location
- State Roads
- County Roads
- Railroads
- Community



Livonia Landfill Site Location Map

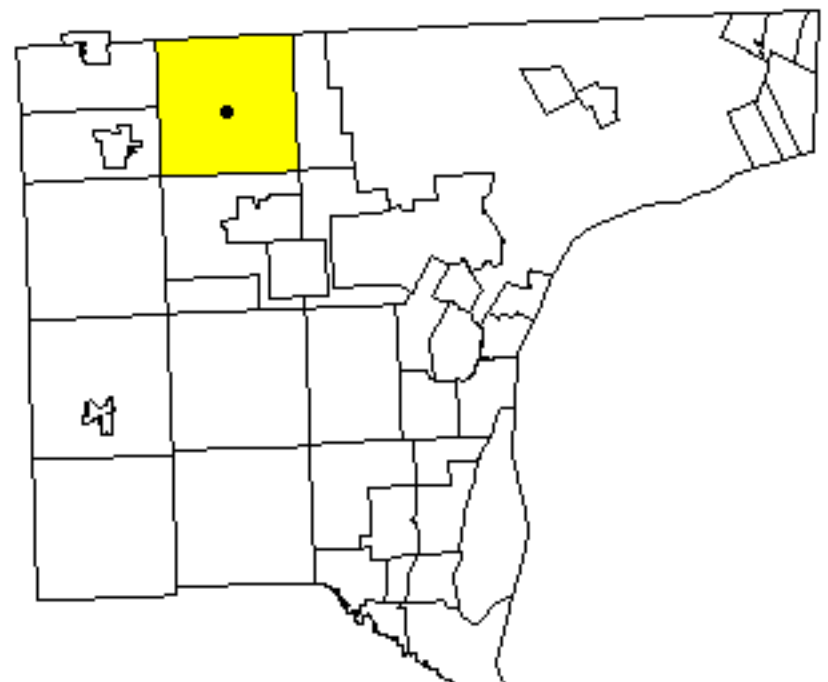


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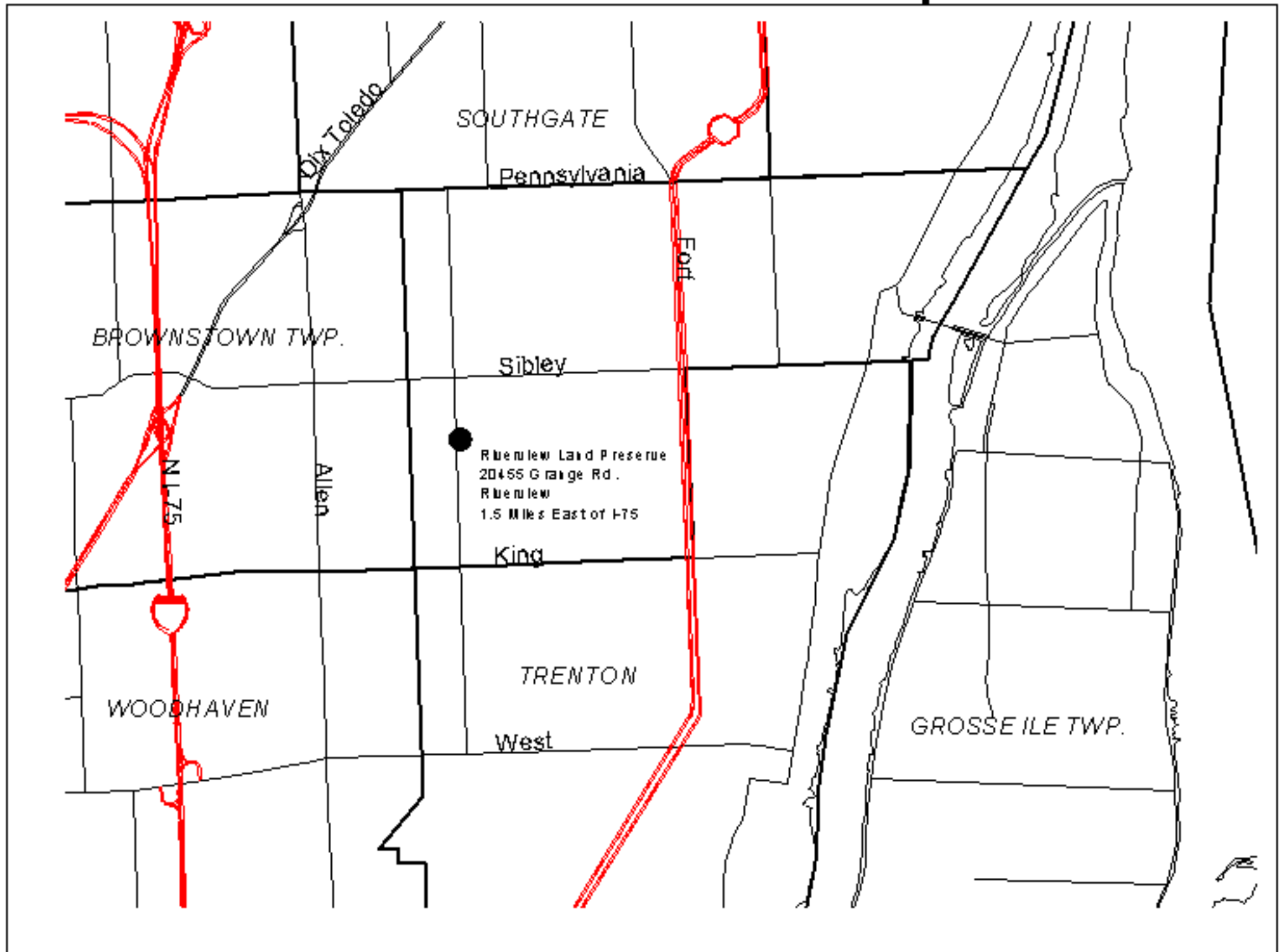


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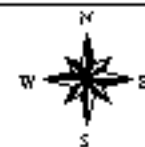
- Landfill Location
- State Roads
- County Roads
- Railroads
- Community



Riverview Land Preserve Site Location Map

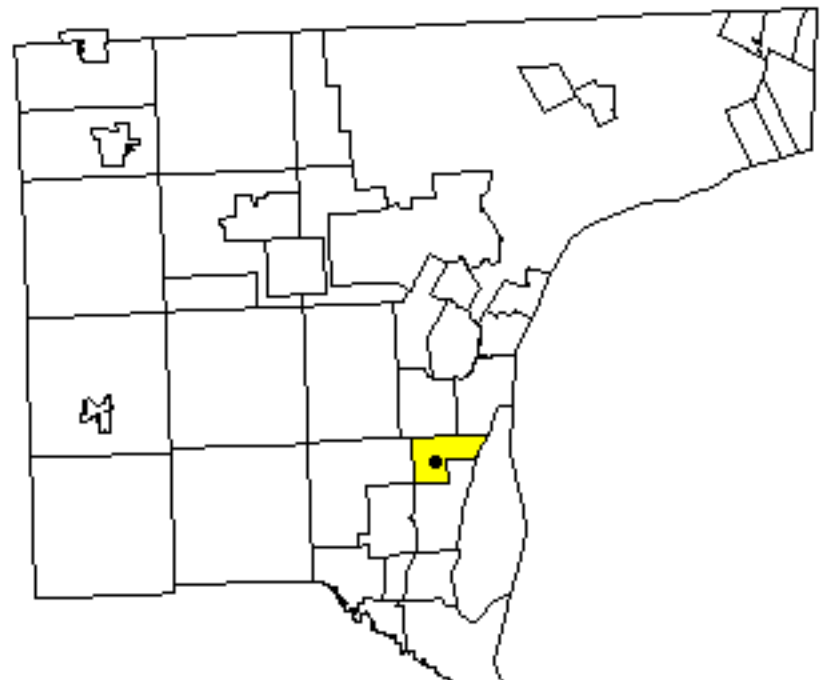


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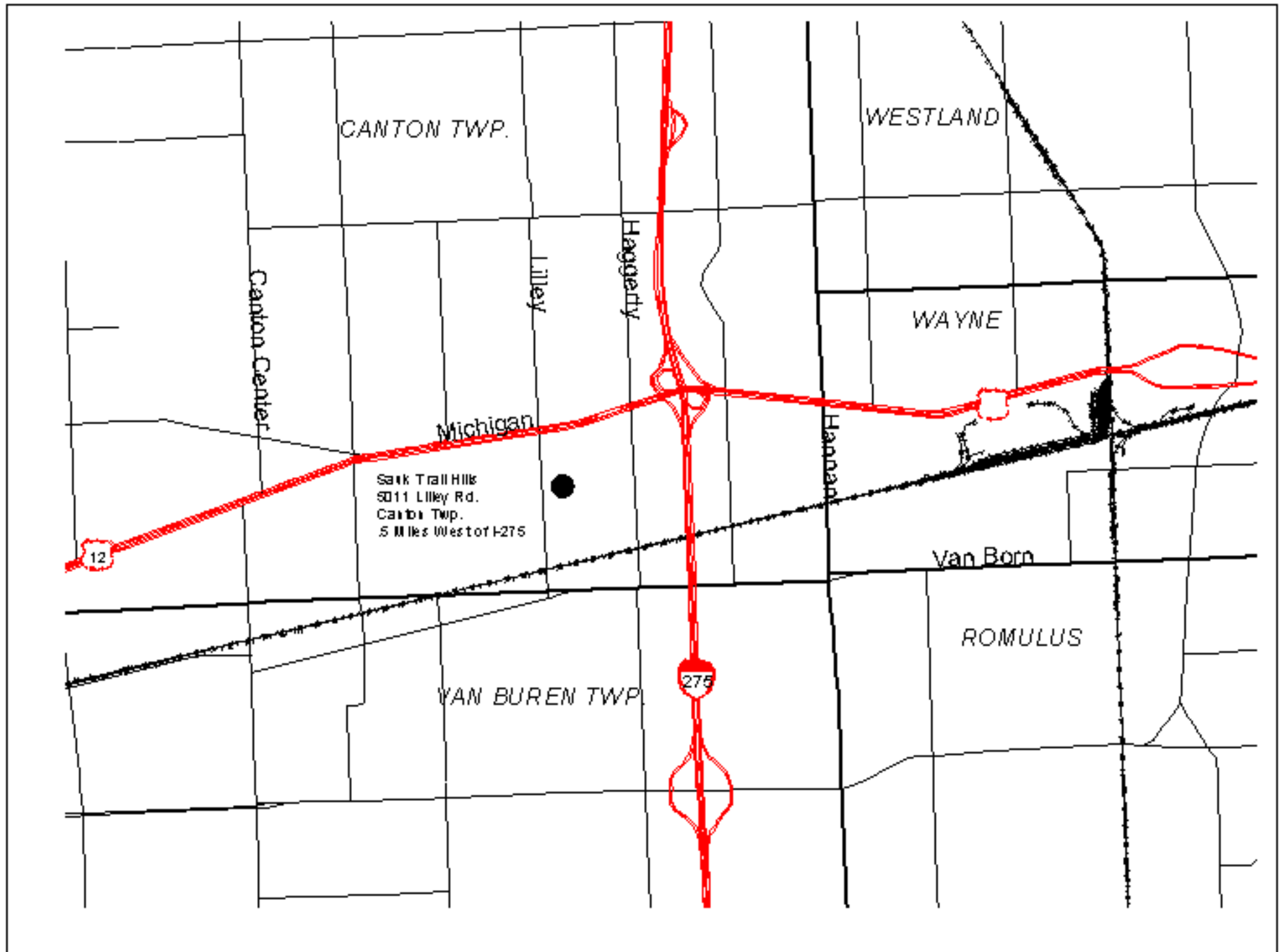


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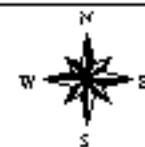
- Landfill Location
- State Roads
- County Roads
- Community



Sauk Trail Hills Landfill Site Location Map

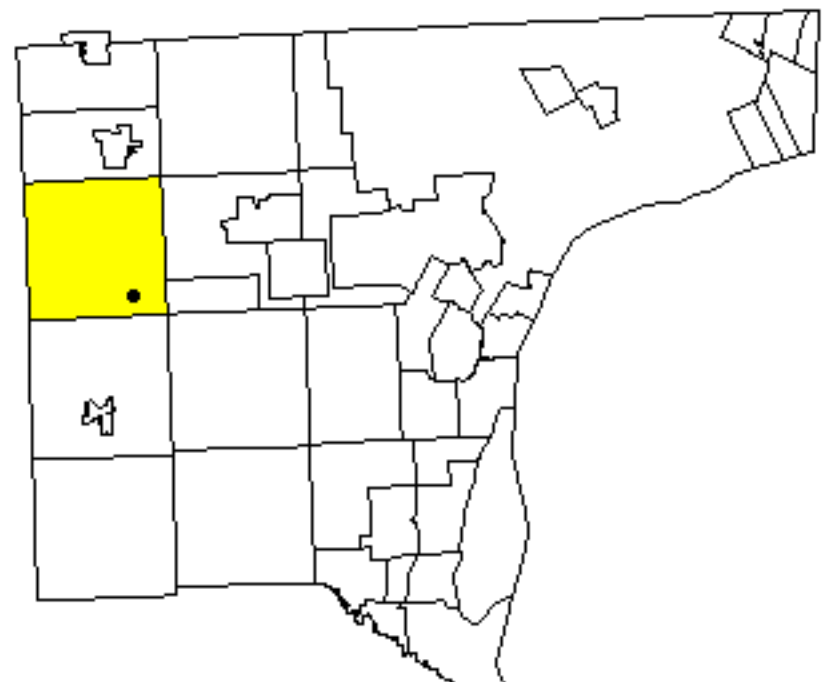


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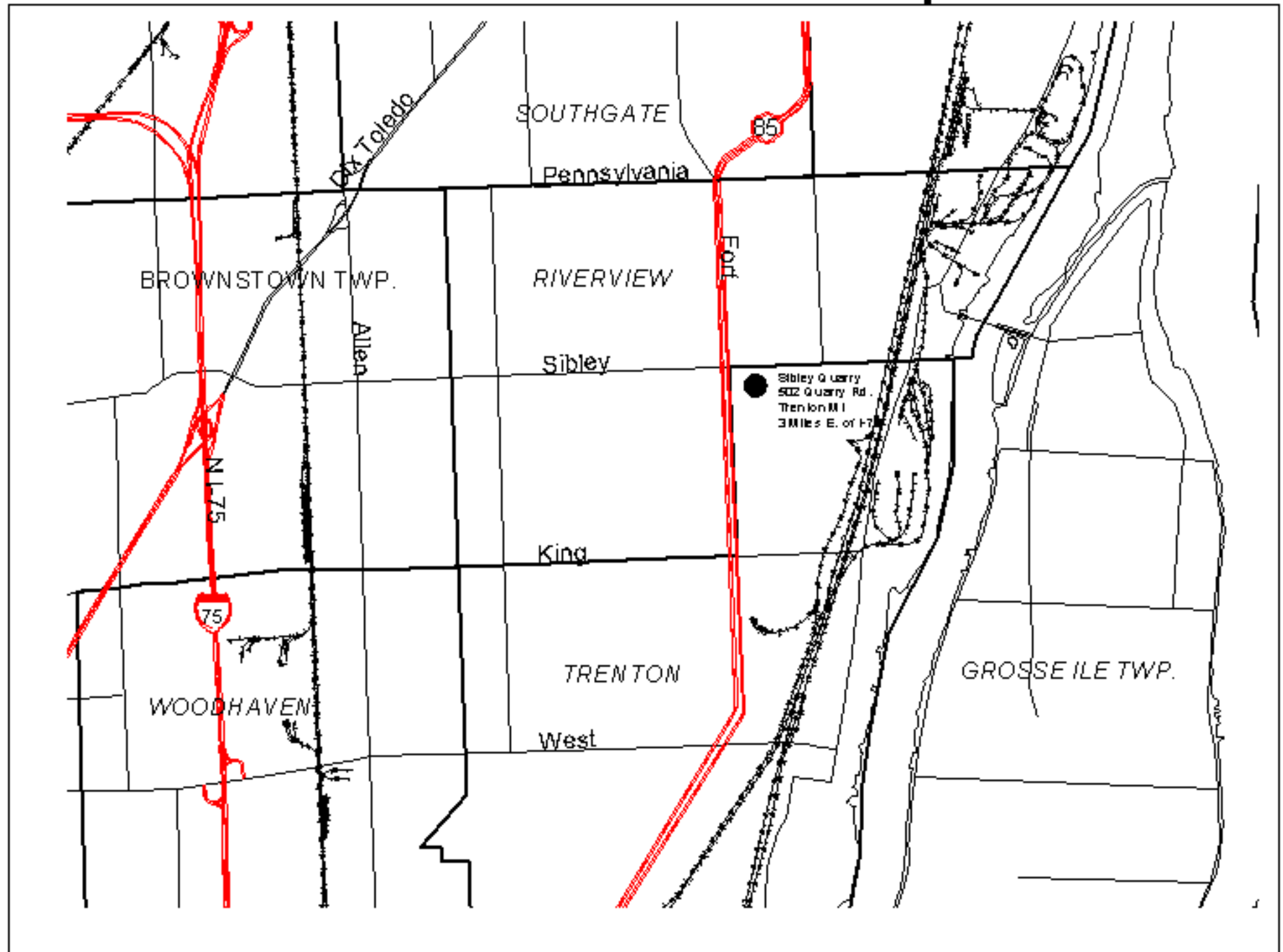


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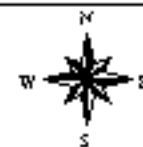
- Landfill Location
- State Roads
- County Roads
- Railroads
- Community



Sibley Quarry Landfill Site Location Map

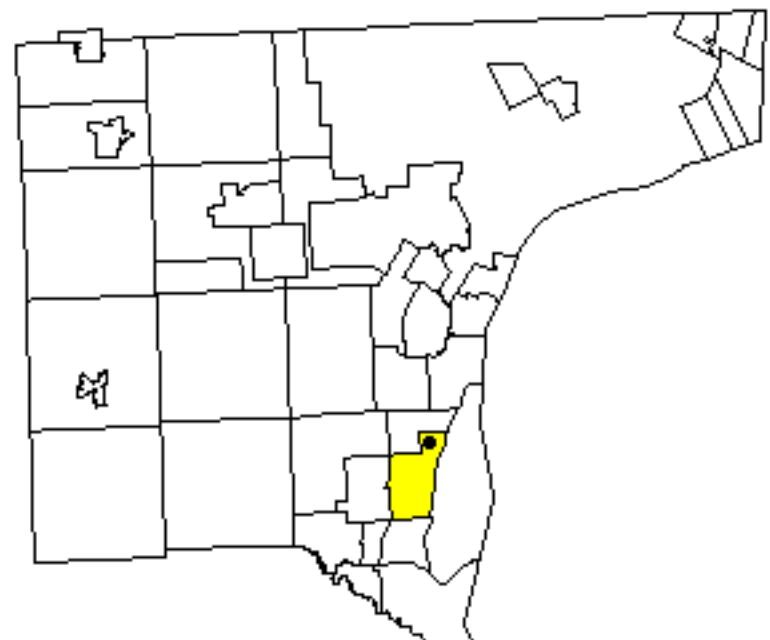


1 0 1 2 Miles

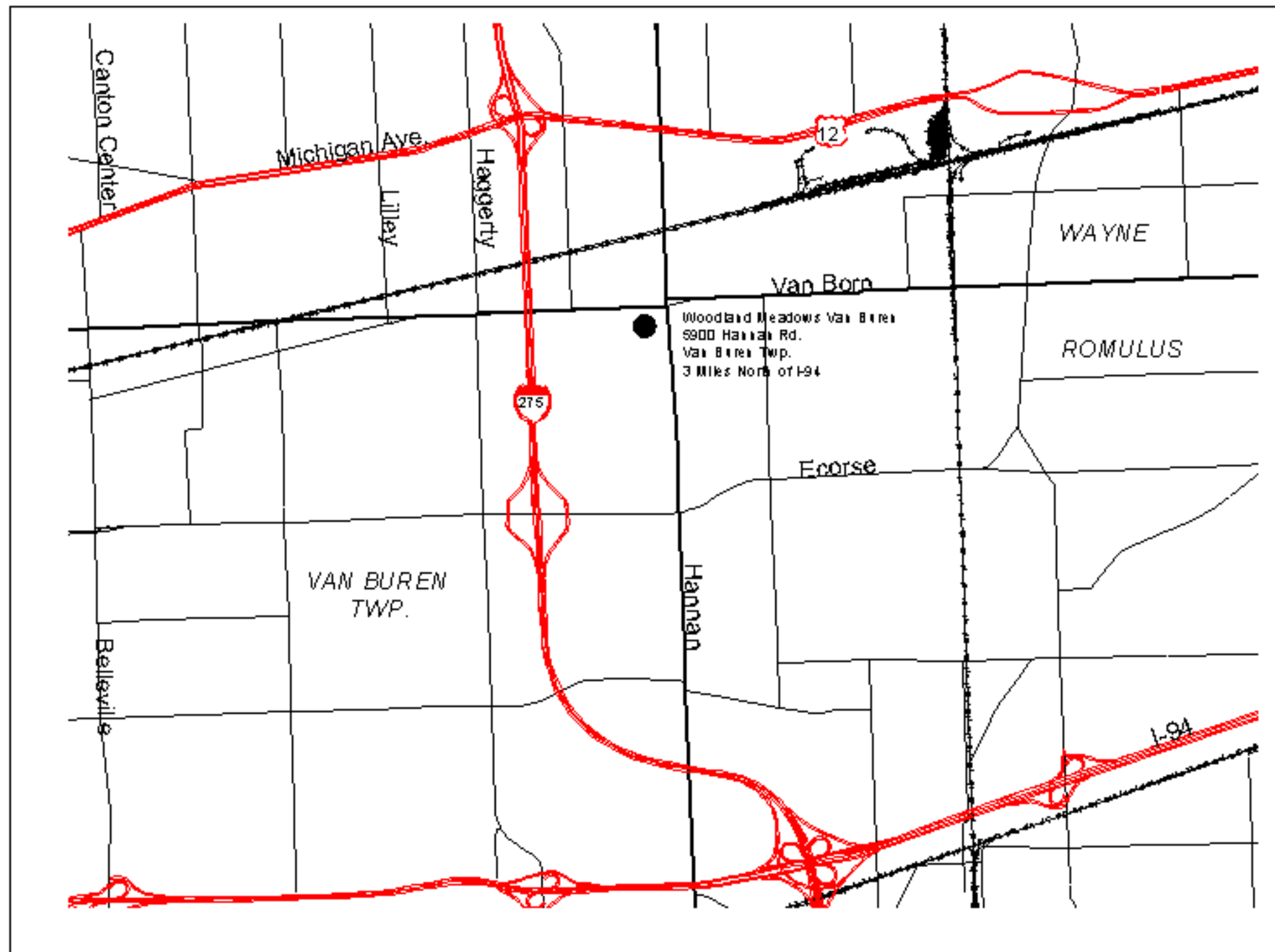


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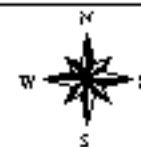
- Landfill Location
- State Roads
- County Roads
- Railroads
- Community



Woodland Meadows Van Buren Landfill Site Location Map

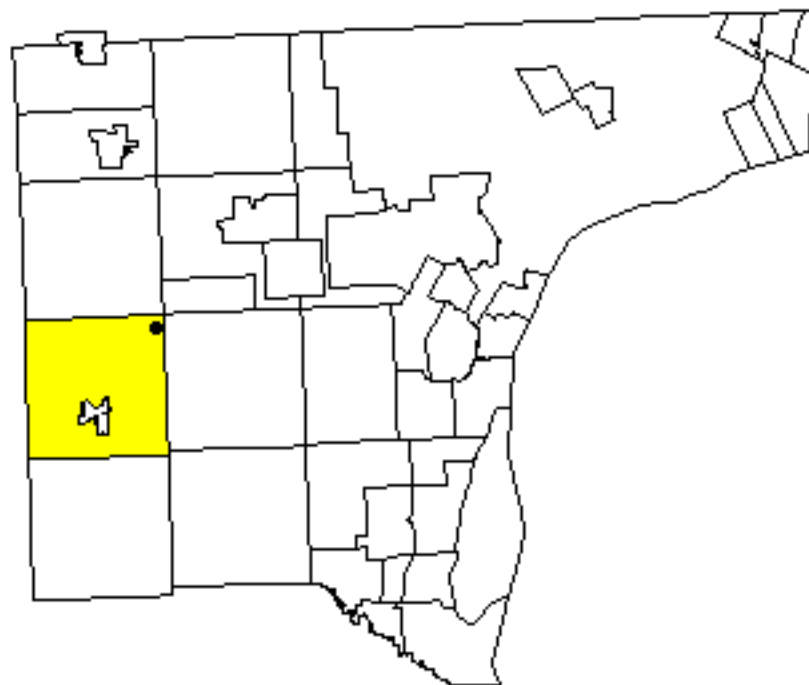


1 0 1 2 Miles



Legend

- Landfill Location
- State Roads
- County Roads
- Railroads
- Community



APPENDIX Q

**Documentation for facilities removed from Plan
(per page A44)**



March 23, 2000

Edward H. McNamara
County Executive

Mr. Thomas A. Fairall
20665 Canal Dr.
Grosse Ile, MI 48138

RE: Removal of Fairall Trucking Transfer Station from Wayne County Solid Waste Management Plan

Dear Mr. Fairall,

The Wayne County Department of Environment is in the process of updating the Wayne County Solid Waste Management Plan. As part of this process we have identified Fairall Trucking located at 18472 Allen Rd., Riverview as being previously approved; however, either it hasn't been constructed or is no longer licensed and operating. With this update, a decision will be made to remove Fairall Trucking from the Plan unless you request and receive approval for continued inclusion from the Wayne County Siting Committee.

If you wish an opportunity to present your case so that Fairall Trucking remains in the Solid Waste Management Plan, you must contact this office in writing identifying why it should not be removed. This information will be provided to the Siting Committee and a meeting will be scheduled to provide the Committee a chance to review your request and allow you an opportunity to present your position. The Committee will then decide to keep or remove Fairall Trucking from the Plan.

If we do not hear from you in writing within 20 days from receipt of this letter, Fairall Trucking will be removed from the Plan. If you have any questions or need additional information please contact me at (734) 326-4494.

Sincerely,

Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

Is your **RETURN ADDRESS** completed on the reverse side?

SENDER:

- ☐ Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
☐ Print your name and address on the reverse of this form so that we can return this card to you.
☐ Attach this form to the front of the mailpiece, or on the back if space does not permit.
☐ Write "Return Receipt Requested" on the mailpiece below the article number.
☐ The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

3. Article Addressed to:

MR. THOMAS A. FAIRALL
20665 CANAL DR.
GROSSE ILE, MI 48138

4a. Article Number

2 451054 468

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

3.27.79

5. Received By: (Print Name)

Thomas A. Fairall

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-99-B-0223

Domestic Return Receipt

Thank you for using Return Receipt Service.



March 23, 2000

Edward H. McNamara
County Executive

Mr. Paul Russo
SteelPro
36253 Michigan Ave.
Wayne, MI 48184

RE: Removal of K&K Rail Transfer Station from Wayne County Solid Waste Management Plan

Dear Mr. Russo,

The Wayne County Department of Environment is in the process of updating the Wayne County Solid Waste Management Plan. As part of this process we have identified K&K Rail located at 4058 Elizabeth, Wayne as being previously approved; however, either it hasn't been constructed or is no longer licensed and operating. With this update, a decision will be made to remove K&K Rail from the Plan unless you request and receive approval for continued inclusion from the Wayne County Siting Committee.

If you wish an opportunity to present your case so that K&K Rail remains in the Solid Waste Management Plan, you must contact this office in writing identifying why it should not be removed. This information will be provided to the Siting Committee and a meeting will be scheduled to provide the Committee a chance to review your request and allow you an opportunity to present your position. The Committee will then decide to keep or remove K&K Rail from the Plan.

If we do not hear from you in writing within 20 days from receipt of this letter, K&K Rail will be removed from the Plan. If you have any questions or need additional information please contact me at (734) 326-4494.

Sincerely,

A handwritten signature in black ink that reads "Robert N. Ratz". The signature is written in a cursive, flowing style.

Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

Is your RETURN ADDRESS completed on the reverse side?

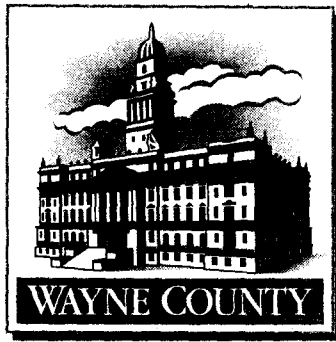
SENDER:		I also wish to receive the following services (for an extra fee):	
<input type="checkbox"/> Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. <input type="checkbox"/> Print your name and address on the reverse of this form so that we can return this card to you. <input type="checkbox"/> Attach this form to the front of the mailpiece, or on the back if space does not permit. <input type="checkbox"/> Write "Return Receipt Requested" on the mailpiece below the article number. <input type="checkbox"/> The Return Receipt will show to whom the article was delivered and the date delivered.		1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery	
3. Article Addressed to:		4a. Article Number	
MR. PAUL RUSSO STEELPRO 36253 MICHIGAN AVE. WARREN, MI 48184		72451054469	
5. Received By: (Print Name) M. J. J. J. J.		4b. Service Type	
6. Signature (Addressee or Agent) M. J. J. J. J.		<input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD	
7. Date of Delivery 3-24-00		8. Addressee's Address (Only if requested and fee is paid)	

PS Form 3811, December 1994

102595-99-8-0223

Domestic Return Receipt

Thank you for using Return Receipt Service.



March 23, 2000

Edward H. McNamara
County Executive

Mr. Jack DerStepanian
18480 Elwell
Belleville, MI 48111

RE: Removal of Landfill, Inc. from Wayne County Solid Waste Management Plan

Dear Mr. DerStepanian,

The Wayne County Department of Environment is in the process of updating the Wayne County Solid Waste Management Plan. As part of this process we have identified Landfill, Inc. located at 39965 Judd Rd., Belleville as being previously approved; however, either it hasn't been constructed or is no longer licensed and operating. With this update, a decision will be made to remove Landfill, Inc. from the Plan unless you request and receive approval for continued inclusion from the Wayne County Siting Committee.

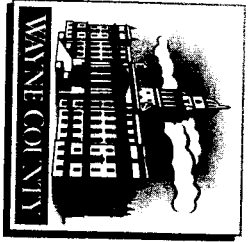
If you wish an opportunity to present your case so that Landfill, Inc. remains in the Solid Waste Management Plan, you must contact this office in writing identifying why it should not be removed. This information will be provided to the Siting Committee and a meeting will be scheduled to provide the Committee a chance to review your request and allow you an opportunity to present your position. The Committee will then decide to keep or remove Landfill, Inc. from the Plan.

If we do not hear from you in writing within 20 days from receipt of this letter, Landfill, Inc. will be removed from the Plan. If you have any questions or need additional information please contact me at (734) 326-4494.

Sincerely,

A handwritten signature in cursive script that reads "Robert N. Ratz".

Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division



Edward H. McNamara
County Executive
Department of
Environment
3600 Commerce Court
Wayne, Michigan 48184

CERTIFIED

Z 451 054 470



- ☐ MOVED, LEFT NO ADDRESS
- ☐ ATTEMPTED - NOT KNOWN
- ☐ UNCLAIMED - REFUSED
- ☐ NO SUCH STREET
- ☐ NO SUCH NUMBER
- ☐ INSUFFICIENT ADDRESS
- ☒ NOT DELIVERABLE AS
ADDRESSED UNABLE TO FORWARD

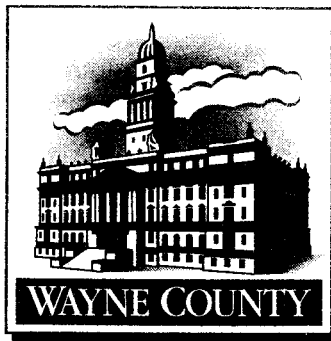


UNITED STATES
POSTAL SERVICE™

Mr. Jack DerStepanian
18480 Elwell
Belleville, MI 48111

1st NOTICE _____
2nd NOTICE _____
RETURNED _____





March 23, 2000

Edward H. McNamara
County Executive

Metro/Detroit Environmental Services
2281 W. Fort St.
Detroit, MI 48226

RE: Removal of Metro/Detroit Environmental Services from Wayne County Solid Waste Management Plan

To Whom it may concern,

The Wayne County Department of Environment is in the process of updating the Wayne County Solid Waste Management Plan. As part of this process we have identified Metro/Detroit Environmental Services located at 7800 Dix, Detroit as being previously approved; however, either it hasn't been constructed or is no longer licensed and operating. With this update, a decision will be made to remove Metro/Detroit Environmental Services from the Plan unless you request and receive approval for continued inclusion from the Wayne County Siting Committee.

If you wish an opportunity to present your case so that Metro/Detroit Environmental Services remains in the Solid Waste Management Plan, you must contact this office in writing identifying why it should not be removed. This information will be provided to the Siting Committee and a meeting will be scheduled to provide the Committee a chance to review your request and allow you an opportunity to present your position. The Committee will then decide to keep or remove Metro/Detroit Environmental Services from the Plan.

If we do not hear from you in writing within 20 days from receipt of this letter, Metro/Detroit Environmental Services will be removed from the Plan. If you have any questions or need additional information please contact me at (734) 326-4494.

Sincerely,

Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

DEPARTMENT OF ENVIRONMENT
3600 COMMERCE COURT • BUILDING E • WAYNE, MICHIGAN 48184
(734) 326-3936 FAX (734) 326-4421



*Edward H. McNamara
County Executive*

**Department of
Environment**

3600 Commerce Court
Wayne, Michigan 48184

CERTIFIED

Z 451 054 458

MAIL

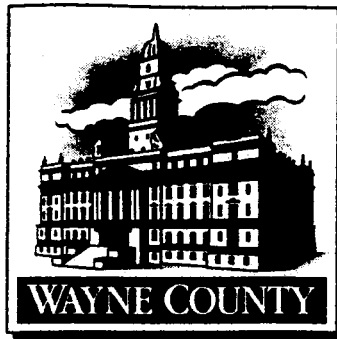
McNamara

Metro/Detroit Environmental Services
2281 W. Fort St.
Detroit, MI 48226

CHRISTIA



11/11/11 11:11 AM 11/11/11 11:11 AM 11/11/11 11:11 AM



Edward H. McNamara
County Executive

March 23, 2000

Mr. William Madias
SRS Environmental
111 Military
Detroit, MI 48209

RE: Removal of Nave Transfer Station from Wayne County Solid Waste Management Plan

Dear Mr. Madias,

The Wayne County Department of Environment is in the process of updating the Wayne County Solid Waste Management Plan. As part of this process we have identified Nave located at 4440 Wyoming, Dearborn as being previously approved; however, either it hasn't been constructed or is no longer licensed and operating. With this update, a decision will be made to remove Nave from the Plan unless you request and receive approval for continued inclusion from the Wayne County Siting Committee.

If you wish an opportunity to present your case so that Nave remains in the Solid Waste Management Plan, you must contact this office in writing identifying why it should not be removed. This information will be provided to the Siting Committee and a meeting will be scheduled to provide the Committee a chance to review your request and allow you an opportunity to present your position. The Committee will then decide to keep or remove Nave from the Plan.

If we do not hear from you in writing within 20 days from receipt of this letter, Nave will be removed from the Plan. If you have any questions or need additional information please contact me at (734) 326-4494.

Sincerely,

Robert M. Katz, P.E.
Director
Department of Environment
Land Resource Management Division

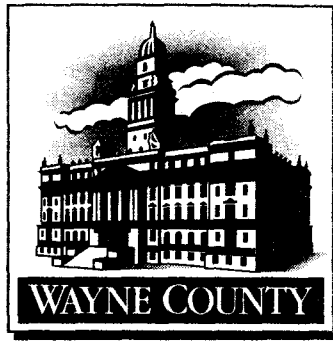
DEPARTMENT OF ENVIRONMENT
300 COMMERCE COURT • BUILDING E • WAYNE, MICHIGAN 48184
(734) 326-3936 FAX (734) 326-4421



Is your RETURN ADDRESS completed on the reverse side?

SENDER: <input type="checkbox"/> Complete items 1 and/or 2 for additional services. <input type="checkbox"/> Complete items 3, 4a, and 4b. <input type="checkbox"/> Print your name and address on the reverse of this form so that we can return this card to you. <input type="checkbox"/> Attach this form to the front of the mailpiece, or on the back if space does not permit. <input type="checkbox"/> Write "Return Receipt Requested" on the mailpiece below the article number. <input type="checkbox"/> The Return Receipt will show to whom the article was delivered and the date delivered.		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery	
3. Article Addressed to: MR. William Madias SRS Environmental 111 Military DETROIT, MI 48209		4a. Article Number 451 054 459	
4b. Service Type <input checked="" type="checkbox"/> Registered <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD		<input checked="" type="checkbox"/> Certified <input type="checkbox"/> Insured <input type="checkbox"/> COD	
5. Received By: (Print Name) [Signature]		7. Date of Delivery 3-26-00	
6. Signature (Addressee or Agent) [Signature]		8. Addressee's Address (Only if requested and fee is paid)	

Thank you for using Return Receipt Service.



Edward H. McNamara
County Executive

March 23, 2000

Mr. Henry C. Mardigian
Recycling Corporation of America
601 Beaufait
Detroit, MI 48207

RE: Removal of Recycling Corporation of America from Wayne County Solid Waste Management Plan

Dear Mr. Mardigian,

The Wayne County Department of Environment is in the process of updating the Wayne County Solid Waste Management Plan. As part of this process we have identified Recycling Corporation of America located in Taylor as being previously approved; however, either it hasn't been constructed or is no longer licensed and operating. With this update, a decision will be made to remove Recycling Corporation of America from the Plan unless you request and receive approval for continued inclusion from the Wayne County Siting Committee.

If you wish an opportunity to present your case so that Recycling Corporation of America remains in the Solid Waste Management Plan, you must contact this office in writing identifying why it should not be removed. This information will be provided to the Siting Committee and a meeting will be scheduled to provide the Committee a chance to review your request and allow you an opportunity to present your position. The Committee will then decide to keep or remove Recycling Corporation of America from the Plan.

If we do not hear from you in writing within 20 days from receipt of this letter, Recycling Corporation of America will be removed from the Plan. If you have any questions or need additional information please contact me at (734) 326-4494.

Sincerely,

Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

DEPARTMENT OF ENVIRONMENT
3600 COMMERCE COURT • BUILDING E • WAYNE, MICHIGAN 48184
(734) 326-3936 FAX (734) 326-4421





Edward H. McNamara
County Executive

**Department of
Environment**

3600 Commerce Court, Bldg. E
Wayne, Michigan 48184

CERTIFIED

Z 451 054 466

MAIL

Mr. Henry C. Mardigian
Recycling Corporation of America
601 Beaufort
Detroit, MI 48207



March 23, 2000

Edward H. McNamara
County Executive

Mr. Frank Watson
18545 Schoolcraft Rd.
Detroit, MI 48223

RE: Removal of Renaissance Recycling from Wayne County Solid Waste Management Plan

Dear Mr. Watson,

The Wayne County Department of Environment is in the process of updating the Wayne County Solid Waste Management Plan. As part of this process we have identified Renaissance Recycling located in Detroit as being previously approved; however, either it hasn't been constructed or is no longer licensed and operating. With this update, a decision will be made to remove Renaissance Recycling from the Plan unless you request and receive approval for continued inclusion from the Wayne County Siting Committee.

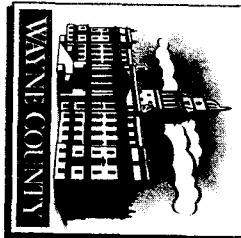
If you wish an opportunity to present your case so that Renaissance Recycling remains in the Solid Waste Management Plan, you must contact this office in writing identifying why it should not be removed. This information will be provided to the Siting Committee and a meeting will be scheduled to provide the Committee a chance to review your request and allow you an opportunity to present your position. The Committee will then decide to keep or remove Renaissance Recycling from the Plan.

If we do not hear from you in writing within 20 days from receipt of this letter, Renaissance Recycling will be removed from the Plan. If you have any questions or need additional information please contact me at (734) 326-4494.

Sincerely,

Robert N. Ratz, P.E.
Director
Department of Environment
Land Resource Management Division

DEPARTMENT OF ENVIRONMENT
3600 COMMERCE COURT • BUILDING E • WAYNE, MICHIGAN 48184
(734) 326-3936 FAX (734) 326-4421



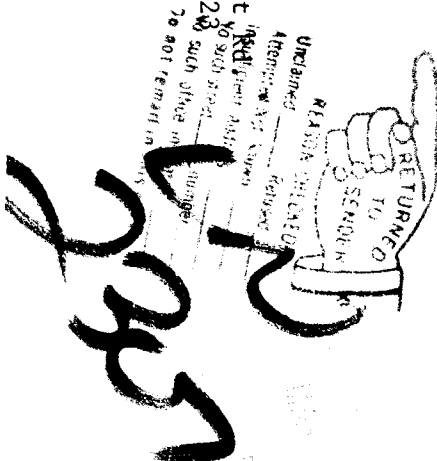
Edward H. McNamara
County Executive
Department of
Environment
3600 Commerce Court
Wayne, Michigan 48184

CERTIFIED

Z 451 054 494

MAIL

Mr. Frank Watson
18545 Schoolcraft
Detroit, MI 48228



44223-0000-0000

GLOSSARY OF TERMS

Glossary of Terms

“Alternate Daily Cover” is material used in place of the required 6” of suitable soil material required by law for daily cover on a landfill. These materials may include tarps, foams, wood chips, or other materials that provide a barrier better than or equal to suitable soil materials. Use of an alternate daily cover by a facility is contingent upon approval of the MDEQ.

“Bank Cubic Yards (bcy)” is the unit of measure used to define the available airspace in a sanitary landfill. This is the actual volume available for waste placement.

“Commercial Waste” means all types of solid waste generated by stores, offices, restaurants, warehouses, and other non-manufacturing activities, but does not include household waste, hazardous waste, and industrial waste.

“Compaction Ratio” is the ratio between gate cubic yards and bank cubic yards designated as 2:1 or 3:1 etc. This ratio is used as a way to estimate the amount of waste, as delivered to a landfill, which will consume one cubic yard of airspace (bcy) in the landfill.

“Current Capacity” means the remaining permitted airspace in a landfill at a specific point in time. It can be based on cubic yards or tons. If expressed in cubic yards, it should be in bank cubic yards (bcy).

“Gate Cubic Yards (gcy)” is the unit of measure used to define the volume of waste that is delivered to the disposal facility. This is generally in a less dense state than when it is in place at a landfill. As a rule of thumb two gate cubic yards equals one bank cubic yard for municipal solid waste.

“Household Hazardous Waste” includes pesticides, motor oil and automobile batteries, common cleaners, solvents, paint products, and any other household material that may be corrosive, reactive, ignitable, toxic or otherwise harmful to human health and the environment. Household materials such as these may exhibit characteristics, which would result in classification as hazardous wastes, but are not regulated due to the household quantity exemption per Part 111 of P.A. 451 (NREPA).

“Industrial Waste” means solid waste that is generated by manufacturing or industrial processes, or originates from an industrial site and which is not a hazardous waste regulated pursuant to the provisions of Part 111 of P.A. 451 (NREPA).

“MSW” means municipal solid waste that generally includes household trash.

“Processing Facility” is a facility that changes the physical or chemical character of solid waste, by separation, treatment, or other methods, so as to make the waste or a constituent of the waste disposable or usable as a resource.

"Resource Recovery" is the practice of recovering material (i.e. glass, plastic, metal, wood) or energy (i.e. gas, electricity) from a waste stream.

"Sanitary Landfill" means a type of disposal area consisting of one or more landfill units and the active work areas associated with these units. Sanitary Landfill shall be classified as one of the following types of landfills:

- (i) A Type II Landfill, which is a municipal solid waste landfill, and includes a municipal solid waste incinerator ash landfill.
- (ii) A Type III Landfill, which is any landfill that is not a municipal solid waste landfill or a hazardous waste landfill and includes both of the following:
 - (a) construction and demolition waste landfills.
 - (b) industrial waste landfills.
- (iii) A monofill, which is a landfill that is used solely for the disposal of ash from the combustion of municipal solid waste.

"Solid Waste Construction Permit" is issued to a developer of a solid waste disposal area prior to its construction. The permit describes the construction, operation, closure, maintenance and post-closure monitoring of a solid waste disposal area. The permit is issued by the Michigan Department of Environmental Quality.

"Solid Waste Facility" or "Solid Waste Disposal Area" means a solid waste transfer facility, incinerator, sanitary landfill, processing plant, and resource recovery facility or other solid waste handling and disposal facility utilized in the disposal of solid waste. All such facilities, including license-exempt transfer stations, are required to be included in the Plan prior to operation.

"Solid Waste License" is issued by the Michigan Department of Environmental Quality to disposal areas who have been issued a construction permit and have completed the construction of a solid waste disposal facility under the terms of that permit. The license includes the names of the licensed owner and operator of the site. The license is issued for a two-year period and must be renewed for a facility to continue operating. The license may contain special conditions that may be amended during the license review period due to changes in operations or to resolve operational problems at the facility.

"Total Area Sited for Use" is the total area in acres that has been identified in the Solid Waste Management Plan for use as a solid waste disposal facility.

"Total Area of Facility Property" is the total area in acres of property that is identified in the construction permit and could be the same or larger than the Total Area Sited for Use.

“Total Area Permitted” is the area in acres that is identified in the solid waste construction permit for the actual placement of waste at a landfill, or for the handling of waste at a processing or transfer station.

“Type A Transfer Station” is a facility that is designed and operated to receive solid waste from mechanically unloaded vehicles and typically receives greater than 200 cubic yards per day.

“Type B Transfer Station” is a facility that is designed and operated to receive domestic and commercial solid waste from vehicles unloaded by hand and typically receives less than 200 cubic yards per day.

“Waste-to-Energy Incineration” is a process where solid waste is burned for the purpose of producing steam for heat and/or the generation of electrical power. This process reduces the fossil fuel consumption for power generation and reduces volume of waste requiring landfill space.

“Yard Clippings” means leaves, grass clippings, vegetable or other garden debris, shrubbery, or brush or tree trimmings, less than 4 feet in length and 2 inches in diameter, that can be converted to compost humus. Yard clippings do not include stumps, agricultural wastes, animal waste, roots, sewage sludge, or garbage.