

Amendments to the

1990

SOLID WASTE MANAGEMENT

PLAN UPDATE

Oakland County, Michigan

Act 641 Facility Designations
Changes, Additions and Deletions

Adopted by the Board of Commissioners
on June 9, 1994

L. Brooks Patterson, County Executive

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Amendments to the

OAKLAND COUNTY

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**1990
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PLAN UPDATE**

Oakland County, Michigan

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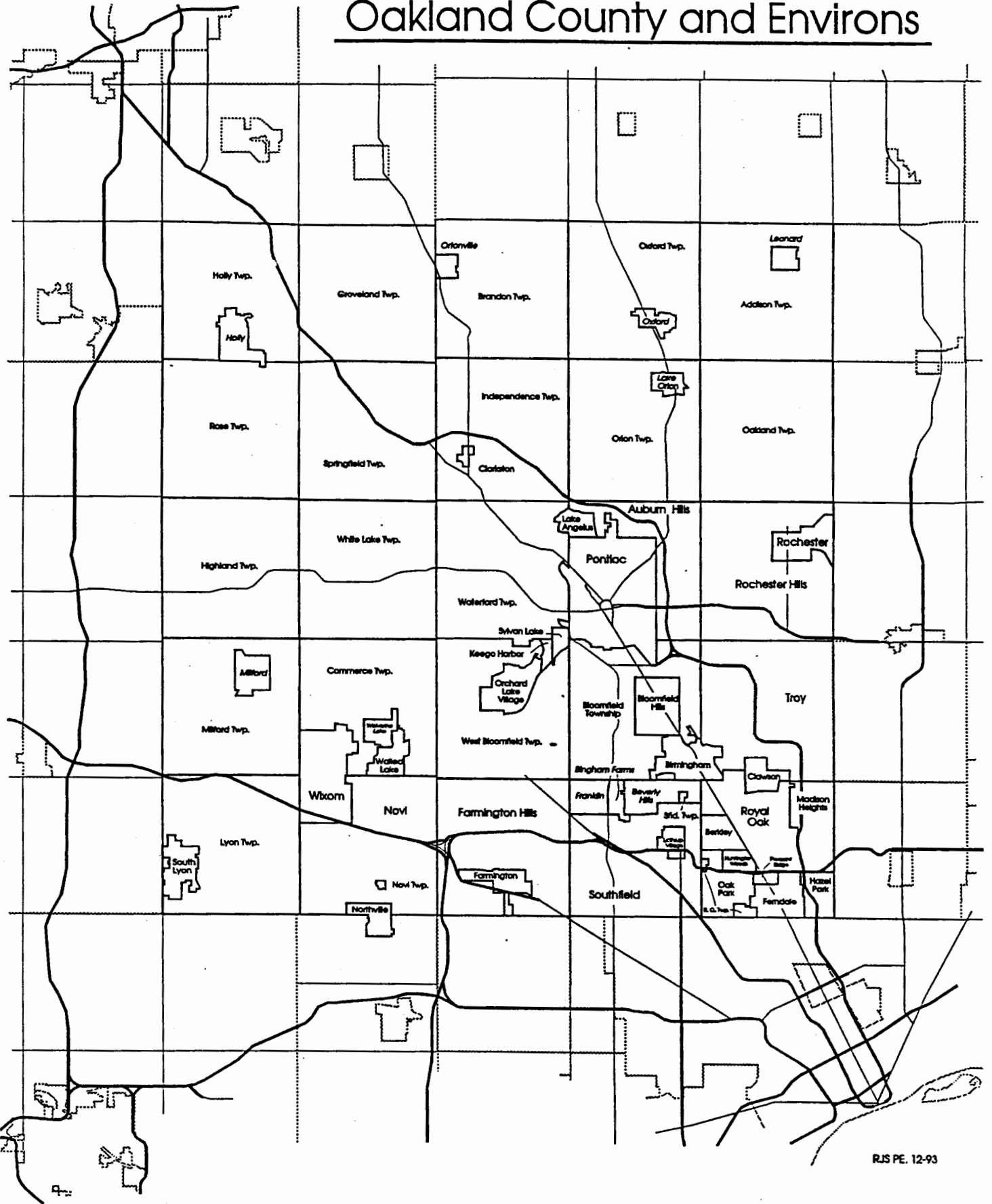
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EXECUTIVE SUMMARY

**ACT 641 DESIGNATIONS
CHANGES, ADDITIONS AND DELETIONS**

Michigan's Act 641 of 1978 as amended, requires that a certain class of solid waste handling, processing and/or disposal facilities be designated in an approved County Solid Waste Management Plan prior to the issuance of an original construction permit and the subsequent operation thereof. Oakland County's 1990 Solid Waste Management Plan Update (as approved by the Board of Commissioners in June of 1990, by 74% of the County's 61 municipalities through March of 1991, and by the MDNR Director in November of 1991) designated 16 such facilities. These included 5 Type II landfills, 1 Type III landfill, 3 waste-to-energy plants, 5 recyclable materials recovery facilities (MRFs), and 2 transfer stations.

Nine of these 16 facilities were pre-existing or proposed governmentally sponsored projects and 7 were pre-existing or proposed private sector projects. As of early 1994, two of the six landfill facilities have been closed, one as a normal course of events and the other because of environmental violations. It is not traditional to eliminate the Act 641 designations for closed landfills since the lengthy post closure monitoring process occurs under the umbrella of the original Act. At the same time, five projects have not moved ahead as originally envisioned - sponsorship has been withdrawn on two projects, never materialized or was inappropriate on two other projects and a final project was relocated by its governmental sponsor to another site. This left 9 projects operating either as formally designated (7 locations) or operating in a lesser interim role (2 locations) while the sponsors continue to pursue solid waste management alternatives.

It is recommended that Act 641 facility designations be deleted for five projects; that three new MRFs or MRF / Transfer Station sites receive designation; that one existing landfill be approved for a lateral expansion; and that the designation of two existing facilities be changed.

The three new MRF projects will significantly increase in-county capacity for handling and processing recyclable materials giving Oakland County dramatic opportunity to maximize its volume reduction efforts in a cost effective manner. The two new MRF facilities with transfer station capabilities will additionally offer Oakland county waste generators direct access to the disposal facilities of two major corporations in several contiguous and willing host counties. The proposed landfill lateral expansion will enhance Oakland County's access to a proper amount of disposal capacity into the 21st century, without adding a new landfill site and competitor to the regional scene thereby exposing all landfill operators to additional import pressures from out-of-state and/or out-of-country waste generators, who seek access to any excess landfill operating capacity in the region. Finally, the designation of the SOCRRA landfill in Rochester Hills should be changed to eliminate a previously approved lateral expansion for an ash monofill and the designation of the proposed SOCRRA waste-to-energy facility in Madison Heights should be changed to that of an Act 641 Disposal Area except that the site may not be used as a sanitary landfill, an incinerator or as a waste-to-energy plant.

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Chapter 1

**ACT 641 DESIGNATIONS
CHANGES, ADDITIONS AND DELETIONS**

Act 641 requires that counties will have "...access to a sufficient amount of available and suitable land, accessible to transportation media, to accommodate the development and operation of solid waste disposal areas, or resource recovery facilities..." Additionally, these areas or facilities must be "...capable of being developed and operated in compliance with..." the law and rules of the State and that the proposed facilities are technically and economically feasible. Oakland County's 1990 Solid Waste Management Plan Update designated a number of disposal areas and resource recovery facilities, but placed some restrictions upon the designated sites in terms of what could be developed thereon. Following are the Act 641 definition of disposal areas and resource recovery facilities..

299.404 Sec. 4. (3) "Disposal area" means a solid waste transfer facility, incinerator, sanitary landfill, processing plant, or other solid waste handling or disposal facility utilized in the disposal of solid waste.

299.406 Sec. 6. (3) "Resource recovery facility" means machinery, equipment, structures, 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.

List of Chapter 1 Exhibits:

- 1.8 Designated Facility Map
- 1.9 Designated Facility Listing

Acronyms:

Oakland County is well served by two solid waste Authorities which represent 22 municipalities in the southern portion of the County. Their acronyms will be seen frequently throughout this document and are briefly described below.

RRRASOC: The Resource Recovery and Recycling Authority of Southwestern Oakland County serves the needs of eight southwestern Oakland County municipalities including the Cities of Farmington, Farmington Hills, Novi, South Lyon, Southfield, Walled Lake and Wixom as well as Lyon Township.

SOCRRA: The Southeastern Oakland County Resource Recovery Authority serves the needs of fourteen southeastern Oakland County municipalities including the Cities of Berkley, Birmingham, Clawson, Ferndale, Hazel Park, Huntington Woods, Lathrup Village, Madison Heights, Oak Park, Pleasant Ridge, Royal Oak and Troy as well as the Village of Beverly Hills and Royal Oak Township.

Existing and Designated Act 641 Facilities:

The 1990 Solid Waste Management Plan Update for Oakland County continued the designation of Act 641 sites from the Original Plan (as amended) and included the designation of several new sites. These designations included the following locations and facilities and all are shown on the accompanying map.

Type II Landfills: This disposal area designation is for a sanitary landfill which will handle municipal solid waste and/or municipal solid waste incinerator ash. Municipal solid wastes are generally defined as household waste from single and multiple dwellings, hotels, motels, and other residential sources, or this household waste together with solid waste from commercial, institutional, municipal, county, or industrial sources that, if disposed of would not be required to be placed in a hazardous wastes disposal facility. These facilities may also receive other types of solid waste, such as nonhazardous sludges, conditionally exempt small quantity generator waste, industrial wastes, and all wastes which may be legally disposed of in a Type III landfill.

1. Collier Road Landfill, 575 Collier Road, City of Pontiac, including a proposed future lateral expansion, containing 220 acres, more or less.
2. Eagle Valley Landfill, 600 West Silverbell Road, Orion Township, including a proposed lateral expansion. The expansion commenced operations in early 1992. The total site contains 330 acres, more or less. Future expansions on this site may not be requested by the operator nor recommended by the County, without the approval of the Township, in concert with a consent judgement filed in 1991 in the Oakland County Circuit Court.
3. Lyon Land Development Company Landfill, 5380 Milford Road, Lyon Township. This facility received its final loads of waste during late September, 1993. It is currently being capped, closed and converted into recreational facilities for Lyon Township. This location is the site of the first plant in Oakland County which converts recovered landfill gases into electrical energy. The plant became operational in June, 1993.
4. Wayne Disposal - Oakland Landfill, 2350 Brown Road, City of Auburn Hills, containing 93 acres, more or less, with a sanitary landfill footprint of approximately 44 acres.
5. SOCRRA Landfill, 741 Avon Road, City of Rochester Hills, containing 183 acres more or less and including a proposed future 57 acre expansion located on properties adjacent to, and north of the original landfill which is intended to be developed as a covered ash monofill for waste-to-energy residuals. The original facility is presently operated as a composting site.

Type III Landfills: This disposal area designation is for a sanitary landfill which will not handle municipal solid wastes or hazardous wastes but will accept construction and demolition debris and/or industrial wastes.

6. Waterford Hills Landfill, 7900 Gale Road, Waterford Township, containing 50 acres more or less. Although designated in the original Plan as a Type III landfill, this facility operated from the beginning as a licensed Type II facility since Type II permits were issued by MDNR prior to approval of the original Plan. This landfill was closed by MDNR in October of 1990, because of environmental violations. At the time of preparation of this Plan Amendment, litigation is ongoing with regard to permanent closure and remediation of the observed groundwater problems. Bids are being received by MDNR for final closure and cover of the facility and funds have been set aside for this purpose by the State. MDNR has maintained that once an Act 641 facility receives construction permits, it cannot be "planned" out of operation by an alteration in its Act 641 designation.

Waste-to-Energy Plants: This disposal area designation is for municipal solid waste incinerators which will incorporate recovery of energy from the waste stream.

7. General Motors Truck and Bus Division, South Boulevard, City of Pontiac. Approximate Design Capacity = 115 tons per day.
8. Oakland County, Brown Road near Giddings Road, City of Auburn Hills. Approximate Design Capacity = 2,000 tons per day. This project, the cornerstone of a proposed county-wide Solid Waste Management System, was formally abandoned by the Oakland County Board of Commissioners in November, 1993, although the county did acquire the property.
9. SOCRRA, 29470 John R Road, City of Madison Heights. Approximate Design Capacity = 600 tons per day. A 600 ton per day incinerator was constructed on this site in the 1950s. It processed a majority of the residential waste stream from the 14 SOCRRA municipalities until closure in mid-1988. The Authority has continued to pursue tentative plans to reconstruct this facility as a modern waste-to-energy plant and has been examining alternative waste reduction processes for a potential replacement project. The closed incinerator has been operated as a major transfer station for the Authority's waste stream.

Materials Recovery Facilities (MRF): This disposal area designation is for municipal solid waste processing plants which are designed principally for the purpose of recovering materials from the municipal solid waste stream. It should be noted here that recycling or composting facilities that process only source separated materials do not require Act 641 designation. Several of the facilities designated as MRFs in the 1990 Plan Update, because of the intent of the proposers to process only source separated wastes, did not strictly require such a designation. However, since these facilities are essentially prototypes in this region, and the learning curve was anticipated to be steep for such facilities, maximum flexibility was sought for the projects in case ultimately, some recyclables might best be processed from mixed-wastes. Should that eventuality occur, the owners or operators of the MRF involved may choose to apply for construction and/or operating permits from the MDNR. Otherwise, the facilities would be operated as source separated MRFs. Other processing facilities receiving a MRF designation, such as the Pontiac proposal, were intended from the beginning to process recyclables from the mixed-waste stream.

10. Two alternate sites were identified in the 1990 Plan Update for a source separated MRF / Transfer Station / Household Hazardous Waste Drop-off facility to be owned by RRRASOC, both sites being located in the City of Novi. RRRASOC was, at the time of Plan Update adoption, in the process of selecting the final site. The site selected would have automatically received designation and the other site was to be automatically deleted. Neither site was ultimately selected in favor of a MRF site in Southfield.
 - A. About 25 acres on west side of Wixom Road, about one-quarter mile south of Grand River, City of Novi.
 - B. About 30 acres on west side of Haggerty Road, about one-quarter mile north of Grand River, City of Novi.
11. SOCRRA MRF site, 991 Coolidge Highway, City of Troy. This facility, adjacent to the SOCRRA transfer station, has been in operation since October, 1992.

12. Mixed-waste MRF site, Highwood Industrial Park, bounded on the north by Collier Road and on the west by the Highwood Extension, City of Pontiac. No specific proposal has been advanced for this site. In 1993, the City requested that two, non-site specific, mixed-waste MRF / Transfer Station designations be substituted for the original while the City concluded negotiations with interested private sector providers.
13. MRF consisting of a 20,000 square foot building to be located on the former Fisher properties on Rose Center Road, Rose Township. This proposal originally was an integral part of a major landfill proposal on properties adjoining to the west. The landfill proposal did not receive designation during the 1990 Plan Update process and the MRF designation was inadvertently left in the final Plan documents.
14. Oakland County source separated MRF, Lake Angelus Road near Giddings Road, City of Auburn Hills containing 10 acres, more or less. This facility, part of the county-wide Solid Waste Management System proposal, is not actively being pursued, although the County did acquire the property.

Transfer Stations: This disposal area designation is for a tract of land, a building and any appurtenances, or a container, or any combination of land, buildings, or containers that is used or intended for use in the rehandling or storage of solid waste incidental to the transportation of the solid waste, but is not located at the site of generation or the site of disposal of the solid waste. It should be noted that transfer stations not designed to accept wastes from vehicles with mechanical compaction devices or those that accept less than 200 uncompacted cubic yards of solid wastes per day, are exempt from required Act 641 Plan designation.

15. Laidlaw Waste Systems Transfer Station, 21430 West 8 Mile Road, City of Southfield.
16. SOCRRA Transfer Station, 991 Coolidge Highway, City of Troy.

Other Facilities: The 1990 Plan Update implied that several other facilities were in the planning stages but had not yet been sited at the time the Plan Update received approval from the Board of Commissioners and subsequently the 61 municipalities. The sponsors of each facility contemplated have either abandoned the projects or have chosen to construct the facilities without benefit of Act 641 designation, as is permissible under the law. None were formally brought back to the table to receive Designation. The Plan Update further stated that any facilities that require Act 641 construction permits that were not explicitly listed were specifically excluded from the Plan.

The 1990 Plan Update purposely did not designate a variety of other solid waste facilities, including the following, inasmuch as these are permissible under Act 641 (or other laws and regulations) without specific designation.

- A. Recycling drop-off centers
- B. Source separated compost sites
- C. Source separated recyclable materials processing plants
- D. Household Hazardous Waste drop-off centers or sites
- E. Act 641 exempt transfer stations
- F. Medical waste incinerators (regulated under Act 23, P.A. of 1990 and the Michigan Public Health Codes.)

Act 641 Designations - Deletions:

RRRASOC Alternate MRF Sites (2) Although there is not an active implementation effort underway by RRRASOC and that Authority has commenced construction of its MRF at a site in Southfield, the existence of the unresolved potential site designations is a source of lingering irritation to neighboring property owners and the City of Novi as well. It is recommended that these sites be formally dropped from the Plan documents.

1. About 25 acres on west side of Wixom Road, about one-quarter mile south of Grand River, City of Novi.
2. About 30 acres on west side of Haggerty Road, about one-quarter mile north of Grand River, City of Novi.

Rose Township MRF Site The designation is considered inappropriate by Rose Township inasmuch as the original intent was that this facility would simply be an ancillary development to a large, adjacent, Type II landfill. The landfill was not designated. It is recommended that this site be formally dropped from the Plan documents.

Pontiac MRF Site - Highwood Industrial Park No specific proposal has been advanced for this site. In 1993, the City requested that two, non-site specific, mixed-waste MRF / Transfer Station designations be substituted for the original while the City concluded negotiations with interested private sector providers. It is recommended that this site be formally dropped from the Plan documents.

Oakland County Waste-to-Energy Plant - Auburn Hills This project, located on Brown Road near Giddings Road was formally abandoned by the Board of Commissioners in November, 1993. The Air Quality Permit application filed with MDNR has been withdrawn, the Power Purchase Agreement with Detroit Edison Company has been canceled, and the Host Community Agreement with the City of Auburn Hills has been terminated. It is recommended that this site be formally dropped from the Plan documents.

Oakland County MRF Site - Auburn Hills This project, located on Lake Angelus Road west of Giddings Road was formally abandoned by the Board of Commissioners in November, 1993. The Host Community Agreement with the City of Auburn Hills has been terminated. It is recommended that this site be formally dropped from the Plan documents.

Act 641 Designations - Additions:

RRRASOC MRF Site - 20000 West 8 Mile Road in Southfield The Authority has acquired this site and has awarded contracts for the construction of a source separated MRF which is intended to handle the recyclables from the eight RRRASOC municipalities as well as operating as a "merchant" MRF receiving recyclables from other municipalities throughout the region. It should be noted, that although the MRF is to be constructed and operated by the private sector, that its operation is contractually controlled by the Authority and its agreements with the City of Southfield. It is recommended that this site be formally designated as a MRF site to provide the Authority maximum flexibility in handling and processing its future recyclables.

Browning Ferris Industries - 1591 Highwood in the City of Pontiac BFI has proposed a mixed-waste MRF / transfer station at 1591 Highwood in the City of Pontiac (located on the west side of Highwood approximately 1/2 mile south of Collier Road). This site, some 40 acres in size, would be used to service the recycling needs of BFI's customers in mid-Oakland County and serve as a

transfer station for wastes destined to the BFI Type II landfill in Washtenaw County. The Washtenaw County Solid Waste Management Plan Update provides that Act 641 wastes from Oakland County may be imported to that disposal facility in an amount up to 1.5 million gateyards per year and beyond. The Oakland County Plan Update is in the process of being amended to provide for such inter-county flows. Such a private sector MRF would increase the in-county capacity for handling and processing recyclable materials, would increase the competitive nature of bidding for recyclable materials collections within the County, and the project would enhance Oakland County's access to the major disposal area in Washtenaw County. It is recommended that this site be formally designated as a mixed-waste MRF / transfer station.

City Management Corporation - 1525 West Highwood in the City of Pontiac City Management has proposed a mixed-waste MRF / transfer station at 1525 West Highwood in the City of Pontiac (located on the west side of Highwood north of Walton Boulevard). This site, some 15 acres in size, would be used to service the recycling needs of their customers in mid-Oakland County and serve as a transfer station for wastes destined to the City Management's Type II landfills located in several contiguous counties. The Plan Updates of the host counties have been issued with approved inter-county flow arrangements or are in the process of being mandated with similar provisions. In total, more than 1.5 million gateyards per year of export opportunities are to be made available for Oakland County wastes through such arrangements. The Oakland County Plan Update is in the process of being amended to likewise provide for such inter-county flows. Such a private sector MRF would increase the in-county capacity for handling and processing recyclable materials, would increase the competitive nature of bidding for recyclable collections within the County, and the project would enhance Oakland County's access to the several major disposal areas owned by this Corporation. It is recommended that this site be formally designated as a mixed-waste MRF / transfer station.

Wayne Disposal - Oakland Landfill Expansion, Brown Rd. in Auburn Hills A lateral expansion of the existing Wayne Disposal - Oakland Landfill in the City of Auburn Hills is proposed on those properties lying east of the present operation. The new properties involved include two parcels of land totalling approximately 82 acres in size and are bounded by Brown Road, M-24 (Lapeer Road), Harmon Road, and the present landfill. The sanitary landfill footprint of the expansion is anticipated to occupy an area no larger than 50 +/- acres and should yield approximately 7 million bankyards of usable disposal capacity. If the County operated in a closed environment (without imports or exports) the addition of this facility to the Act 641 Plan would add approximately 3.5 years of disposal capacity to that currently designated.

It is recognized that the County does not currently operate in a closed border mode with regard to inter-county flows. In fact, the total disposal capacity available to Oakland County Act 641 wastes (at in-county sites and through inter-county flow provisions contained in the approved Plan Updates of several contiguous counties) exceeds the needs of Oakland County by approximately 50% - for the Year 1994. However, this situation will not long hold. Without the provision of additional capacity within the County, the opportunities for disposal availability will diminish to less than the size of the Oakland County waste stream by early 1999 and the economics of waste disposal will dramatically change as the supply and demand curves merge. With the proposed lateral expansion, it is anticipated that sufficient landfill capacity will exist for Oakland County wastes to about 2005-2008. Considerable additional discussion of the impact of this proposal is contained in a separate Plan Amendment document which deals specifically with inter-county flows and a demonstration of available disposal capacity.

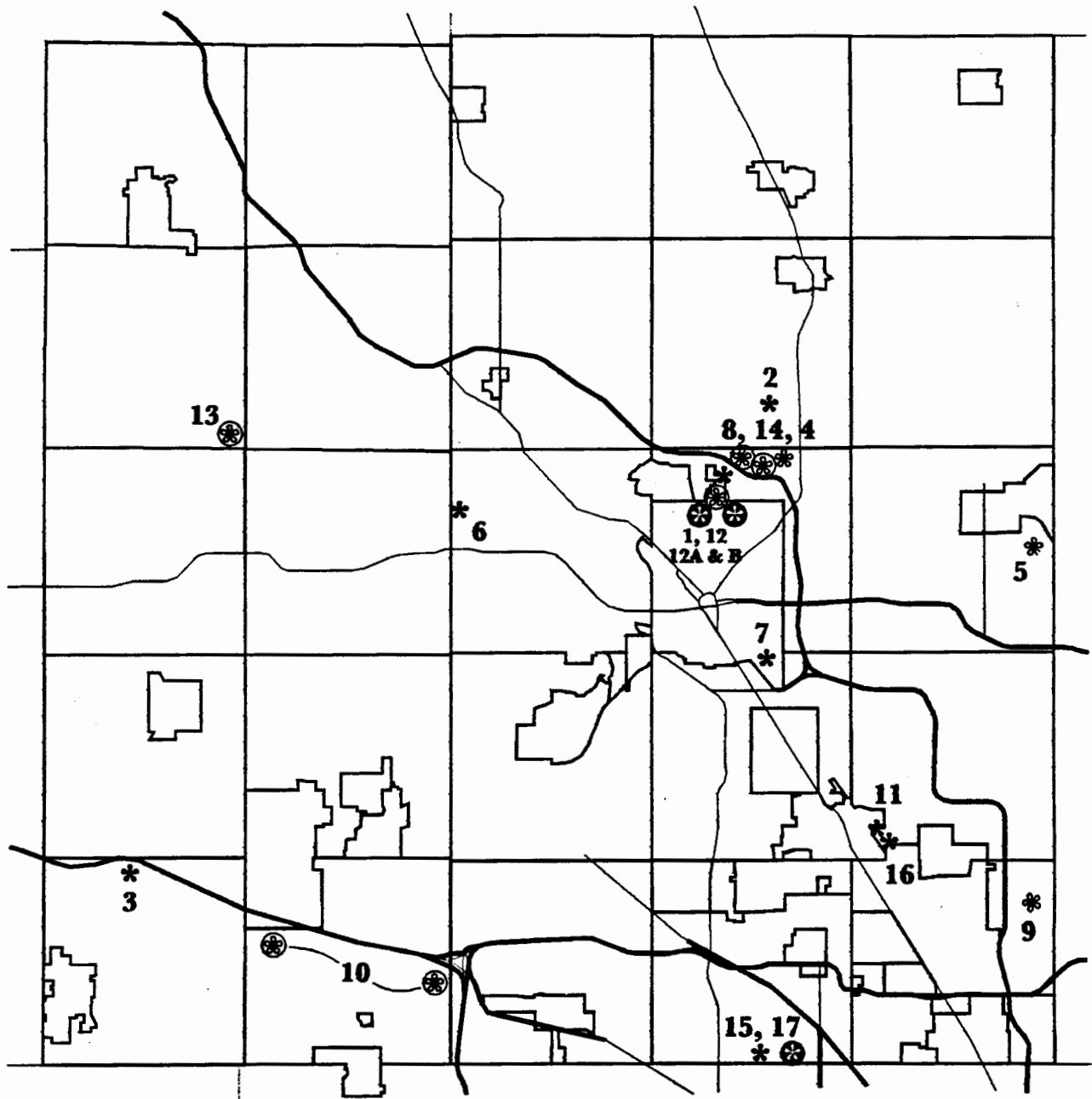
It is recommended that this proposed lateral expansion be formally designated as a Type II landfill.

Act 641 Designations - Changes:

SOCRRA, 29470 John R Road, City of Madison Heights. The site has previously been designated for a Waste to Energy Plant. This amendment changes that designation to a "Disposal Area" as defined by Act 641 except that the site may not be used for a sanitary landfill, an incinerator or as a waste-to-energy plant as previously proposed.

SOCRRA Landfill lateral expansion, 741 Avon Road, City of Rochester Hills. The previously proposed future 57 acre expansion located on properties adjacent to, and north of the original landfill which was intended to be developed as a covered ash monofill for waste-to-energy residuals, is herewith deleted from the Plan documents. Only the original designation of the SOCRRA landfill will remain.

Oakland County's Act 641 Solid Waste Facilities



Legend

- * Existing
- ⊗ Delete
- ⊕ Add
- * Change

Recommended Plan Amendments
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RJS FE, 4-94

Oakland County's Act 641 Solid Waste Facilities

Existing and Designated Act 641 Facilities:

Type II Landfills:

1. Collier Road Landfill, 575 Collier Road, City of Pontiac
(Including a future lateral expansion)
2. Eagle Valley Landfill, 600 West Silverbell Road, Orion Township
3. Lyon Land Development Company Landfill, 5380 Milford Road, Lyon Township
(This site is in the process of final closure)
4. Wayne Disposal - Oakland Landfill, 2350 Brown Road, City of Auburn Hills
5. SOCRRA Landfill, 741 Avon Road, City of Rochester Hills
(Including a future lateral expansion for an ash monofill)

Type III Landfills:

6. Waterford Hills Landfill, 7900 Gale Road, Waterford Township
(This site has always been licensed as a Type II facility and is currently closed for environmental violations - litigation ongoing)

Waste-to-Energy Plants:

7. General Motors Truck and Bus Division, South Boulevard, City of Pontiac.
8. Oakland County, Brown Road near Giddings Road, City of Auburn Hills
9. SOCRRA, 29470 John R Road, City of Madison Heights

Materials Recovery Facilities (MRF):

10. RRRASOC Alternate MRF Sites (One site was to be chosen by RRRASOC and be automatically designated. The other site would be dropped from continuing reference.)
 - A. About 25 acres on west side of Wixom Road, about one-quarter mile south of Grand River, City of Novi.
 - B. About 30 acres on west side of Haggerty Road, about one-quarter mile north of Grand River, City of Novi.
11. SOCRRA MRF site, 991 Coolidge Highway, City of Troy
12. Mixed-waste MRF, Highwood Industrial Park, City of Pontiac
13. Former Fisher properties on Rose Center Road, Rose Township
14. County MRF, Lake Angelus Road near Giddings Road, City of Auburn Hills

Transfer Stations:

15. Laidlaw Transfer Station, 21430 West 8 Mile Road, City of Southfield.
16. SOCRRA Transfer Station, 991 Coolidge Highway, City of Troy.

Act 641 Designations - Proposed Deletions:

8. Oakland County Waste-to-Energy Plant - Brown Road, Auburn Hills
10. RRRASOC Alternate MRF Sites (2)
12. Pontiac MRF Site - Highwood Industrial Park
13. Former Fisher properties MRF on Rose Center Road, Rose Township
14. Oakland County MRF Site - Lake Angelus Road, Auburn Hills

Act 641 Designations - Proposed Additions:

4. Wayne Disposal - Oakland, Type II Landfill Expansion, Brown Rd. in Auburn Hills
- 12A. Browning Ferris Industries MRF / transfer station at 1591 Highwood, City of Pontiac
- 12B. City Management Corporation MRF / transfer station at 1525 West Highwood, City of Pontiac
17. RRRASOC MRF Site - 20000 West 8 Mile Road in Southfield

Act 641 Designations - Proposed Changes:

5. SOCRRA Landfill, 741 Avon Road, City of Rochester Hills
(Delete the previously approved lateral expansion for an ash monofill at this Type II landfill site.)
9. SOCRRA Disposal Area Site, 29470 John R Road, City of Madison Heights
(Change the designation from a waste-to-energy plant to an Act 641 Disposal Area except for a sanitary landfill, an incinerator, or a waste-to-energy plant.)

The 1990 Plan Update purposely did not designate a variety of other solid waste facilities, including the following, inasmuch as these are permissible under Act 641 (or other laws and regulations) without specific designation.

- A. Recycling drop-off centers
- B. Source separated compost sites
- C. Source separated recyclable materials processing plants
- D. Household Hazardous Waste drop-off centers or sites
- E. Act 641 exempt transfer stations
- F. Medical waste incinerators (regulated under Act 23, P.A. of 1990 and the Michigan Public Health Codes.)

Chapter 2

SERVERABILITY CLAUSE

SEVERABILITY CLAUSE:

If any portion of this Plan Amendment to the 1990 Solid Waste Management Plan Update, or the application thereof to any person or circumstance shall be disallowed by the Michigan Department of Natural Resources or found invalid by a court of competent jurisdiction, such disallowance or invalidity shall not affect the remaining portions or applications of the Plan Amendment which shall be given effect without the disallowed or invalid portion or application (unless the MDNR disallowed portion or application is otherwise allowed by a court of competent jurisdiction) and to this end all provisions of said Plan Amendment are declared to be severable.

APPENDIX

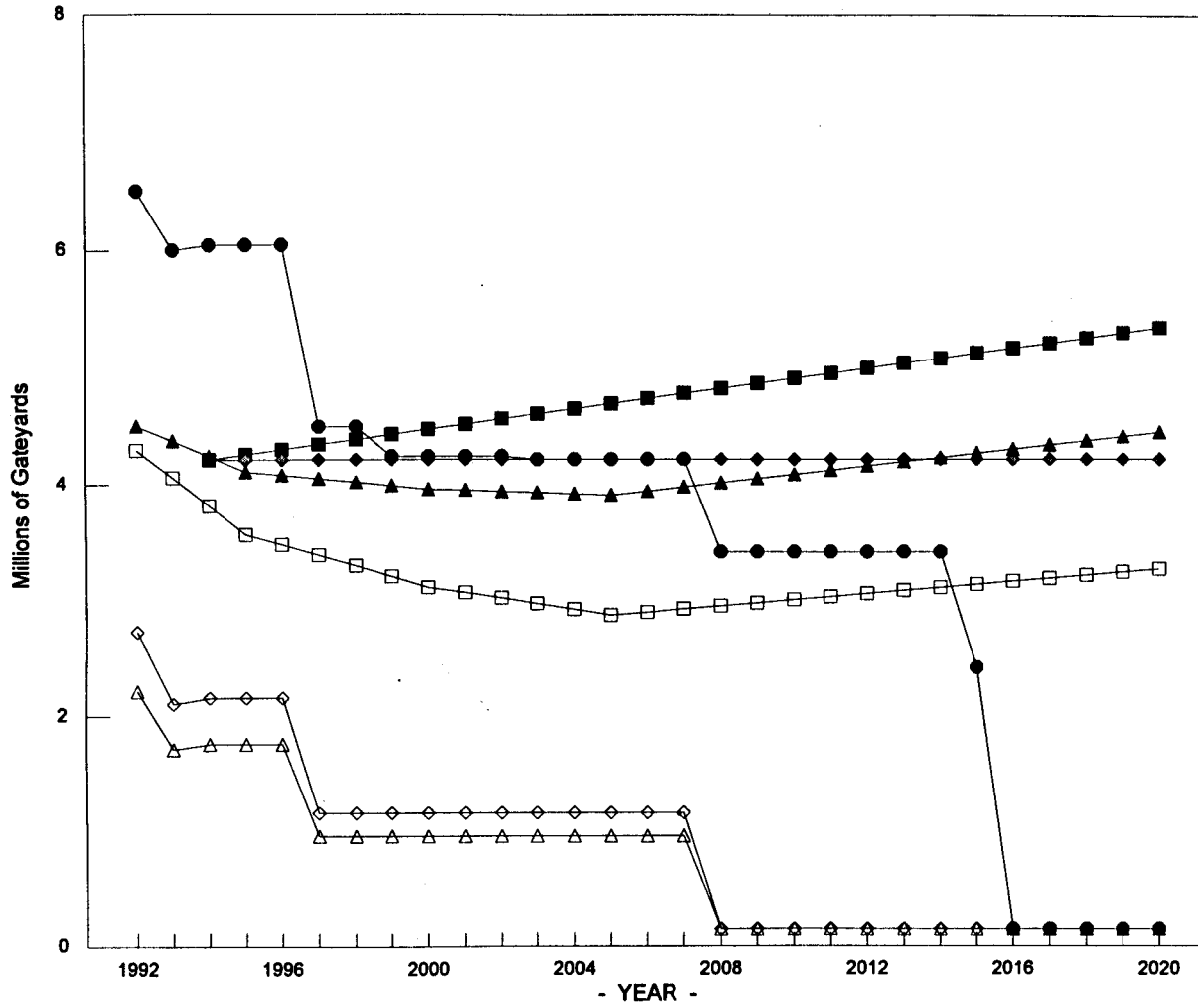
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 Record of Public Comments
 March 31, 1994 Public Hearing Transcript
 Designated Planning Agency Responses

Solid Waste Planning Committee and the Designated Planning Agency
 Membership Listing
 Mission Statement
 Rules and Procedures
 Meeting Schedule and Attendance Record



Existing Oakland Landfills Only

**Oakland County
Disposal Capacity
Availability**

- Demonstrated VR - Constant % Projection
- ◆ Demo'd Waste Stream - Flat Projection
- ▲ Year 2005 - 30% VR Achievement Level
- Year 2005 50% Volume Reduction Goals
- ◇ Total Capacity at In-County Landfills
- △ Net In-County Capacity after Imports
- Net Total Available Capacity

Landfill Operating Factors
 1.0 = 2,500 Gtyds / Working Day
 1.4 = 3,500 Gtyds / Working Day
 1.7 = 4,250 Gtyds / Working Day
 2.0 = 5,000 Gtyds / Working Day
 (2,500 x 286 = 715,000 Gtyds / Year)
 (3,500 x 286 = 1,001,000 Gtyds / Year)

Principal Variables

Wayne-Oakland Expansion?	Wayne-Oakland Factor	Eagle Valley Factor	Genesee Co Exports @ 0.5?	Arbor Hills Secondary?	Demonstrated Vol. Reduction	Export Scenario	Gateway Shortage - 1995 thru the end of 2014				New Capacity? Bankyard Size	No
No	1.40	1.40	No	Yes	15%	A	Demo'd VR (14.155)	Flat Stream (5.606)	30% VR Curve (4.942)	50% VR Goals (0.000)	Factor	0.00
Imports as a % of available in-county capacity -->			20%	Year in which shortage first occurs -->			1999	2008	2008	2015	Year Open	---
				Year in which theoretical coverage ends -->			2005	2007	2008	2015		
				Additional Shortage over next 4 Years -->			(17.875)	(13.983)	(14.399)	(9.826)		13:26
				Total Shortage thru the end of 2018 -->			(32.030)	(19.589)	(19.341)	(9.826)		06/13/94

Facilities Requiring Act 641 Designation

Act 641 and the rules promulgated to implement the act, require that solid waste disposal facilities and processing plants be designated, by site, in the county solid waste management plan. However, they exempt facilities that process source-separated materials from those requirements. Therefore, MRF's processing source-separated recyclables and compost facilities processing yard wastes are not required to be included in the county solid waste management plan, nor do they require a 641 construction permit or operating license.

Facilities that require specific inclusion in Act 641 solid waste management plans are transfer stations, recycling facilities that separate and process recyclables from mixed waste, mixed solid waste composting facilities, incinerators, waste-to-energy facilities, Type II & III sanitary landfills and such other facilities that process, reduce, store, or dispose of solid waste.

Excerpts from Act 641 and its rules pertaining to this matter follow.

Excerpts from Act 641

Sec. 4. (4) "Disposal area" means a solid waste transfer facility, incinerator, sanitary landfill, processing plant, or other solid waste handling or disposal facility utilized in the disposal of solid waste.

Sec. 4. (6) "Garbage" means rejected food wastes, including waste accumulation of animal, fruit, or vegetable matter used or intended for food or that attends the preparation, use, cooking, dealing in, or storing of meat, fish, fowl, fruit, or vegetable.

Sec. 6. (1) "Recyclable materials" means source separated materials, site separated materials, high grade paper, glass, metal, plastic, aluminum, newspaper, corrugated paper, year clippings, and other materials that may be recycled or composted.

Sec. 6. (3) "Resource recovery facility" means machinery, equipment, structures, 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.

Sec. 6. (5) "Rubbish" means nonputrescible solid waste, excluding ashes, consisting of both combustible and noncombustible waste, including paper, cardboard, metal containers, year clippings, wood, glass, bedding, crockery, demolished building materials, or litter of any kind that may be a detriment to the public health and safety.

Sec. 6. (8) "Site separated material" means glass, metal, wood, paper products, plastics, rubber, textiles, garbage, yard clippings, or any other material approved by the director that is separated from solid waste for the purpose of conversion into raw materials or new products. Site separated material does not include the residue remaining after glass, metal, wood, paper products, plastics, rubber, textiles, or any other material approved by the director is separated from solid wastes.

Sec. 7. (1) "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. Solid waste does not include the following:

- (a) Human body waste.
- (b) Medical waste as it is defined in part 138 of the public health code, Act No. 368 of the Public Acts of 1978, being sections 333.13801 to 333.13831 of the Michigan Compiled Laws, and regulated under part 138 of Act No. 368 of the Public Acts of 1978 and section 5a of the air pollution act, Act No. 348 of the Public Acts of 1965, being section 336.15a of the Michigan Compiled Laws.
- (c) Organic waste generated in the production of livestock and poultry.
- (d) Liquid waste.
- (e) Ferrous or nonferrous scrap directed to a scrap metal processor or to a reuser of ferrous or nonferrous products.
- (f) Slag or slag products directed to a slag processor or to a reuser of slag or slag products.
- (g) Sludges and ashes managed as recycled or nondetrimental materials appropriate for agricultural or silvicultural use pursuant to a plan approved by the director. Agricultural uses that involve the land application of by-products from fruit, vegetable, or sugar beet processing do not require a plan described in this subdivision or a permit or license under this act, if applied at an agronomic rate consistent with best management practices under the right to farm act, Act No. 93 of the Public Acts of 1981, being sections 286.471 to 286.474 of the Michigan Compiled Laws.
- (h) Materials approved for emergency disposal by the director.
- (i) Source separated materials.
- (j) Site separated material.
- (k) Fly ash or any other ash produced from the combustion of coal, when used in the following instances:
 - (i) With a maximum of 6% of unburned carbon as a component of concrete, grout, mortar, or casting molds.
 - (ii) With a maximum of 12% unburned carbon passing M.D.O.T. test method MTM 101 when used as a raw material in asphalt for road construction.
 - (iii) As aggregate, road, or building material which in ultimate use will be stabilized or bonded by cement, limes, or asphalt.
 - (iv) As a road base or construction fill which is covered with asphalt, concrete, or other material approved by the director and which is placed at least 4 feet above the seasonal groundwater table.
 - (v) As the sole material in a depository designed to reclaim, develop, or otherwise enhance land, subject to the approval of the director. In evaluating the site, the director shall consider the physical and chemical properties of the ash including leachability, and the engineering of the depository, including, but not limited to, the compaction, control of surface water and groundwater that may threaten to infiltrate the site, and evidence

that the depository is designed to prevent water percolation through the material.

(i) Other wastes regulated by statute.

Sec. 7. (3) "Solid waste processing plant" means a tract of land, building, unit, or appurtenance of a building or unit or a combination of land, buildings, and units that is used or intended for use for the processing of solid waste or the separation of material for salvage or disposal, or both, but does not include a plant engaged primarily in the acquisition, processing, and shipment of ferrous or nonferrous metal scrap, or a plant engaged primarily in the acquisition, processing, and shipment of slag or slag products.

Sec. 7. (6) "Source separated material" means glass, metal, wood, paper products, plastics, rubber, textiles, garbage, yard clippings, or any other material approved by the director that is separated at the source of generation for the purpose of conversion into raw materials or new products.

Sec. 7. (7) "Yard clippings" means leaves, grass clippings, vegetable or other garden debris, shrubbery, of brush or tree trimmings less than 4 feet in length and 2 inches in diameter, that can be converted to compost humus. This term does not include stumps, agricultural wastes, animal waste, roots, sewage sludge, or garbage.

Sec. 10. (1) Except as otherwise provided in section 22a, a person otherwise allowed under this act to own or operate a solid waste disposal area shall not establish a disposal area without a construction permit from the director, contrary to an approved solid waste management plan, or contrary to a permit, license, or final order issued pursuant to this act. A person proposing the establishment of a disposal area shall make application for a construction permit to the director through the health officer on a form provided by the director.. If the disposal area is located in a county or city that does not have a certified health department, the application shall be made directly to the director.

Sec. 12. (3) Beginning on the effective date of the amendatory act which adds this subsection and except as otherwise provided in this subsection, the director shall not issue a construction permit for a disposal area within a planning area unless a solid waste management plan for that planning area has been approved pursuant to sections 28 and 29 and unless the disposal area complies with and is consistent with the approved solid waste management plan. The director may issue a construction permit for a disposal area designed to receive ashes produced in connection with the combustion of fossil fuels for electrical power generation in the absence of an approved county solid waste management plan, upon receipt of a letter of approval from whichever county or counties, group of municipalities, or regional planning agency has prepared or is preparing the county solid waste management plan for that planning area under section 25 and from the municipality in which the disposal area is to be located.

Sec. 30. (1) Not later than September 11, 1979, the director shall promulgate rules for the development, form, and submission of initial solid waste management plans. The rules shall require all of the following:

(a) The establishment of goals and objectives for prevention of adverse effects on the public health and on the environment resulting from improper solid waste collection, processing, or disposal including protection of surface and groundwater quality, air quality, and the land.

(b) An evaluation of waste problems by type and volume, including residential and commercial solid waste, hazardous waste, industrial sludges, pretreatment residues, municipal sewage sludge, air pollution control residue, and other wastes from industrial or municipal sources.

(c) An evaluation and selection of technically and economically feasible solid waste management options, which may include sanitary landfill, resource recovery systems, resource conservation, or a combination of options.

(d) An inventory and description of all existing facilities where solid waste is being treated, processed, or disposed of, including a summary of the deficiencies, if any, of the facilities in meeting current solid waste management needs.

(e) The encouragement and documentation as part of the plan, of all opportunities for participation and involvement of the public, all affected agencies and parties, and the private sector.

(f) That the plan contain enforceable mechanisms for implementing the plan, including identification of the municipalities within the county responsible for the enforcement. This subdivision does not preclude the private sector's participation in providing solid waste management services consistent with the county plan.

(g) Current and projected population densities of each county and identification of population centers and centers of solid waste generation, including industrial wastes.

(h) That the plan area has, and will have during the plan period, access to a sufficient amount of available and suitable land, accessible to transportation media, to accommodate the development and operation of solid waste disposal areas, or resource recovery facilities provided for in the plan.

(i) That the solid waste disposal areas or resource recovery facilities provided for in the plan are capable of being developed and operated in compliance with state law and rules of the department pertaining to protection of the public health and the environment, considering the available land in the plan area, and the technical feasibility of, and economic costs associated with, the facilities.

(j) A timetable or schedule for implementing the county solid waste management plan.

Excerpts from Act 641 Rules

Rule 401. (1) Solid waste processing plants include those facilities which process solid waste or solid waste in conjunction with liquids for ultimate disposal as a waste or for use as a resource. Solid waste processing plants do not include those facilities which process source separated materials such as glass, cans, and paper for recycling. Both of the following are specifically included as solid waste processing plants:

- (a) Incinerators of solid waste.
- (b) Facilities processing paper, glass, metals, or other recyclables from a mixture of wastes.

(Rule 404 pertains to solid waste processing plants)

Rule 404. Before issuance of a construction permit, the applicant shall do all of the following:

- (c) (ii) An explanation of how the facility is consistent with the approved solid waste management plan described in part 7 of these rules.

(Rule 504 pertains to transfer facilities)

Rule 504. Before issuance of a construction permit, the applicant shall do all of the following:

- (b) (xiii) An explanation of how the facility is consistent with the approved solid waste management plan described in part 7 of these rules.

(Rule 711 pertains to Plan Format and Content)

Rule 711. To comply with the requirements of the act and to be eligible for 80% state funding, county solid waste management plans shall be in compliance with the following general format and shall contain the following elements:

- (e) Plan selection shall be based on all of the following:
 - (iii) Site requirements, including the following requirements:
 - (A) The selected alternative shall identify specific sites for solid waste disposal areas for the 5-year period subsequent to plan approval or update.
 - (B) If specific sites cannot be identified for the remainder of the 20-year period, the selected alternative shall include specific criteria that guarantee the siting of necessary solid waste disposal areas for the 20-year period subsequent to plan approval.

Act 641 Exemptions Pertaining to Transfer Stations:

Sec. 22a. (1) A disposal area that is a solid waste transfer facility is not subject to the construction permit and operating license requirements of this act if either of the following circumstances exists:

(a) The solid waste transfer facility is not designed to accept wastes from vehicles with mechanical compaction devices.

(b) The solid waste transfer facility accepts less than 200 uncompacted cubic yards per day.

Overview of the Public Involvement Process

Act 641 of 1978 (as amended) and its Administrative Rules require a rather rigorous public involvement process for Solid Waste Management Plan Amendments and/or Updates. This initially involves Board of Commissioners' appointment of 14 voting members (representing various interests) to a Solid Waste Planning Committee (SWPC) for two-year terms. This step was completed on September 23, 1993. The SWPC knowledge base was further enhanced by the additional appointment of 13 Advisory Members on October 21, 1993.

The primary mission of the SWPC is to assist the County Executive and staff (Oakland County's Designated Planning Agency (DPA)) in the preparation of Plan Amendments or Updates. The SWPC also insures that the DPA properly seeks public participation in the process.

On the opposite hand, the Designated Planning Agency is responsible for preparation of the Plan Amendment and/or Update. The DPA must solicit the advise and consent periodically with the municipalities, appropriate organizations, the private sector, SEMCOG, and adjacent counties and municipalities in adjacent counties that may be significantly impacted. The DPA must also meet at least quarterly with the SWPC during the plan review process; must maintain a mailing list of all municipalities, the private sector and all interest persons; and must notify the chief elected officials of each municipality (and any other person so requesting), at least 10 days prior to each public meeting with the SWPC, indicating the subject matter being discussed.

When the Draft Plan Amendment or Update is completed, the DPA must provide copies to the MDNR, each municipality, adjacent counties (and adjacent cities if they are affected or have so requested), and to SEMCOG. These agencies are allowed a minimum of 90 days of review time and were notified of the current amendment on December 21, 1993.

The DPA is also required to conduct a public hearing on the amendment, after release of the documents by the Solid Waste Planning Committee. The SWPC authorized this action at its meeting of December 16, 1993. The DPA issued press releases announcing the plan review schedule and published notices of the public hearing in several newspapers in February of 1994. A public hearing was conducted on March 31, 1994 and the public record was closed (see separate section for public comments and for the public hearing transcript). A copy of all public comments and the public hearing transcript follow with the Plan Amendments through the remainder of the approval process. After receiving the public comments, the DPA adjusted the Amendments as was appropriate and presented its recommendations to the Solid Waste Planning Committee on April 14, 1994.

The SWPC considered the DPA's recommendations and made its formal recommendations to the Board of Commissioners on April 28, 1994, within Act 641's 30 day time limit since closure of the public record. The Board of Commissioners will review the SWPC's recommendation at its regularly scheduled meetings in May and June of 1994, where public participation is always sought. The Board of Commissioners may approve the plan as submitted by the SWPC or prepare a "statement of objections." If a "statement of objections" is prepared by the Board, this material is returned to the SWPC for their comments and recommendations. The SWPC must respond within 30 days to any issue raised and the Board of Commissioners may then either approve or amend the documents.

After release of the plan amendment or update by the Board of Commissioners, each of Oakland County's 61 municipalities must approve or disapprove the document. If 67% approve (41 approvals required), the document is forwarded to the MDNR Director for final approval. The document becomes effective on the date approved by the MDNR Director.

Record of Public Comments:

This material was bound and distributed separately on April 6, 1994. Additional copies are available upon request. Call Solid Waste Management at (810) 858-1352 for information. This Plan Amendment only contains the cover sheet and a Quick Reference Chart Showing Principal Areas of Concern from that reference document.

March 31, 1994 Public Hearing Transcript:

This material was bound and distributed separately on April 6, 1994. Additional copies are available upon request. Call Solid Waste Management at (810) 858-1352 for information. This Plan Amendment only contains the cover sheet and a Quick Reference Chart Showing Principal Areas of Concern from that reference document.

Designated Planning Agency Responses:

This material describes the Designated Planning Agency's responses to the numerous public comments received during the course of public review of the plan amendments. This includes all written correspondence received since release of the first draft documents on December 16, 1993 through the approval of the plan amendments by the Board of Commissioners on June 9, 1994.

Because of the press of the final deadline imposed by MDNR on the current Oakland County plan amendment process caused by the issuance of a Stipulation and Order For Dismissal in the Holly Disposal, Inc. v MDNR litigation, the document remains incomplete at this time. The Designated Agency Responses will be added to the final document on the next printing run. Interested parties may contact Solid Waste Management at (810) 858-1352 for a copy of the responses. June 13, 1994.

RECORD OF PUBLIC COMMENTS

on the

PROPOSED AMENDMENTS

to the

1990 SOLID WASTE MANAGEMENT PLAN

for

OAKLAND COUNTY, MICHIGAN

April 6, 1994

Solid Waste Management Plan - Proposed Amendments

Public and Public Agency Comment Summary

Quick Reference Chart Showing Principal Areas of Concern

(Combination of Written Comments and Public Hearing Testimony)

Item #	PH #	Proposed Plan Amendment Chapter #							Misc.	Other Facilities not Discussed in Original Chapter 7	Misc. and/or Not Related
		Database	Flows	Capacity	Criteria	Contingency	Facilities	Appendix			
		1	2	3	4	5	6	7			
1						X				X	
2				X						X	X
3				X						X	X
4										X	X
5								X			
6											X
7				X						X	X
8		X		X	X	X	X	X	X	X	
9	T3			X				X			
10	T7									X	
11	T13							X		X	
12						X		X		X	
13						X					
14				X				X			
15										X	
16										X	
17	T1					X				X	
18	T8					X					
19								X		X	
20										X	
21				X		X		X			
22	T17					X					X
23	T5					X					X
24	T9							X			
25	T11					X					
26	T6									X	
27	T7										X
28	T4									X	
	T2									X	X
	T9					X					
	T10										X
	T12									X	
	T14							X		X	X
	T15									X	X
	T16				X						X
	T17										X
	T18										X
	T19								X		X
	T20										X
	T21										X

Notes: Item # refers to the Written Comments Received Item #
PH # refers to the Public Hearing Transcript Item #

Revised on 4/30/94
4/05/94
RJS, PE

Note: The draft Plan Amendment as distributed in December 1993, was split into two documents by the Designated Planning Agency in its final recommendations to the Solid Waste Planning Committee on April 14, 1994. The first dealt with issues contained in the MDNR's conditional approval letter of November 1991, and the second dealt with miscellaneous facility designations and deletions.

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Jerry Strang
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Mission Statement

10-08-93

Mission Statement

General

In accord with Act 641 of 1978 as amended, the Department of Solid Waste Management will act as the Oakland County Designated Planning Agency and will work with the County's Solid Waste Planning Committee (SWPC) on Oakland County's Solid Waste Management Plan and amendments.

Near-term Mission -- Amendments to the Existing Plan Update

Recommendations on the following items (in the form of short, point-specific amendments to the 1990 Oakland County Solid Waste Management Plan Update) should be prepared and presented to the SWPC for release for public comment prior to the end of 1993.

- A. The MDNR Director did not fully approve the 1990 Plan Update, finding deficiencies with quantification of flows to other counties, the interim siting mechanism which did not guarantee siting to an applicant meeting all specified criteria and the contingency plan. Alternate Plan language is required.

When developing language for a new interim siting mechanism as outlined in Item A, consider the development of a dual interim siting mechanism, which (1) provides for rapid processing of designation requests for lesser Act 641 facilities such as compost sites, recyclable materials processing facilities (MRFs), mixed-waste MRFs and transfer stations and (2) provides for a more rigorous process for major Act 641 facilities such as landfills and waste-to-energy facilities.

- B. Because of the passage of time and because of the closure of the Waterford Hills landfill for environmental violations, 20 years of disposal capacity as required by Act 641 is no longer available. Consider the following Plan Amendment request for additional landfill capacity within the framework of the newly recommended quantified inter-county flow schedule and interim siting mechanism outlined in A above (which mechanism would be operative if sufficient disposal capacity is not designated or otherwise identified).

1. A lateral expansion of the Wayne Disposal-Oakland landfill on Brown Road in Auburn Hills.

- C. Reconsider the designation of facilities identified in the 1990 Plan Update which are no longer operational or for which no specific plans have ever been advanced such as...

1. Waterford Hills landfill
2. Rose Township MRF
3. Alternate RRRASOC MRF sites

- D. Consider the designation of the following facilities which have been suggested by the County's municipalities.

1. RRRASOC mixed-waste MRF, 20000 W. Eight Mile Road, Southfield
2. Pontiac mixed-waste MRF/Transfer Station, location to be determined
3. Pontiac Mixed-waste MRF/Transfer Station, location to be determined

Short-term Mission -- Prepare for issuance of a new Plan Update

The 1990 Plan Update was based upon 1980 census data and upon regional development forecasts prepared in the mid-80s. In preparation for the next Plan Update, work with the SWPC to develop a revised database; stay current in all changes proposed for the planning process in Act 641 and its Administrative Rules; and begin development of a revised implementation mechanism, all of which will form the basis for the rapid production of the next major solid waste plan.

Long-term Mission -- Prepare a new Act 641 Plan Update

It is anticipated that the next round of Plan Updates for all of Michigan's 83 Counties will be initiated by the MDNR in mid 1994. When the process is initiated by MDNR, a revised Mission Statement will be promulgated based upon the now anticipated legislative and administrative changes to Act 641, upon the then existent policies of the Michigan Natural Resources Commission, and upon input and recommendations received from the Department, the Solid Waste Planning Committee and from the Board of Commissioners.

**Rules & Procedures for the
Oakland County Solid Waste Planning Committee
(As Adopted on November 11, 1993)**

I. Rules of Order

- A. All meetings of the Oakland County Solid Waste Planning Committee (SWPC) will be established and conducted in accordance with the requirements of Act 641, the Solid Waste Management Act, and Act 267, the Open Meetings Act.
- B. "Robert's Rules of Order" shall be the parliamentary authority of the SWPC and shall govern the proceedings of the SWPC. Rules adopted by the SWPC shall supersede any rules in the parliamentary authority with which they conflict.

II. Election of Officers

- A. The SWPC shall annually elect a Chairperson and a Vice Chairperson.
- B. A staff member of the Designated Planning Agency (DPA) shall act as temporary Chairperson until a Chairperson is elected.
- C. Any member of the SWPC may place the name of another member in nomination for office. Nominations do not require a second.
- D. The nomination and election of the Chairperson and Vice Chairperson shall be separate.
- E. Election of the Chairperson and Vice Chairperson shall be by roll call vote. The vote of eight members is required to elect the Chairperson and Vice Chairperson.

III. Meetings of the Solid Waste Planning Committee

- A. The SWPC shall meet at the times and places determined by the DPA in conjunction with the Chairperson, but not less than quarterly during preparation of a Plan Amendment or Plan Update.
- B. The DPA and the Chairperson of the SWPC shall establish the meeting agenda which is to be included with the notice of the meeting.
- C. SWPC members may contact DPA staff or the SWPC Chairperson to request that items be placed on the agenda or, during the "New Business" portion of the meeting, a SWPC member may request that an item appear on a future agenda. Such item will be placed on the agenda of the next meeting or a subsequent meeting.
- D. Members of the public may contact DPA staff or the SWPC Chairperson to request that items be placed on the agenda or, during the "Public Comment" portion of the meeting, a member of the public may request that an item appear on a future agenda. The proposed item should reflect the immediate tasks of the SWPC.
- E. The SWPC shall not act on matters or issues not on the agenda.
- F. Staff should notify local government officials if industry presentations are to be made to the SWPC regarding facilities in their municipality.

IV. Presence and Voting

- A. A majority of the SWPC voting members serving and present at the call of the Chairperson shall constitute a quorum.
- B. The designee(s) of the member(s) appointed to represent city, county or township government may vote in the absence of the appointed member(s) (see Section 26(2) of Act 641). The DPA and the Chairperson of the SWPC shall be notified of the identity of the designee(s), in writing, at least five (5) days before a designee may vote at a meeting of the SWPC. Notice shall also be in writing by the appointed member(s) of any proposed change in designee.
- C. Only the fourteen (14) persons appointed to the SWPC in compliance with the requirements of Act 641, or the designees identified in sub-section IV B above, may vote on formal resolutions of the SWPC. A majority vote of those present will constitute adoption of a formal resolution. A member, or designee, must be present at the time the vote is taken to vote on a formal resolution of the SWPC.

- D. Non-voting advisory members may, and are, encouraged to participate in all discussions. They may not propose nor second motions or resolutions, and they may not vote on motions or resolutions of the SWPC.
- E. Approval of a Plan Amendment or Plan Update requires a majority vote of the committee members appointed and serving (see Section 26(1) of Act 641).

V. Public Participation

- A. Public comments regarding agenda items will be received as those items are taken up by the SWPC. Public comments on non-agenda matters will be received during the "Public Comment" portion of the meeting.
- B. Persons wishing to address the SWPC shall identify themselves and state their address and the reason for addressing the SWPC.
- C. Persons shall limit their comments to three (3) minutes unless the time is extended by the Chairperson or by a majority vote of the SWPC members present and voting.
- D. The Open Meetings Act allows persons to record or broadcast the SWPC meetings. However, such actions shall result in a minimum of disruption of the meeting. The Chairperson shall determine if the actions are disrupting the meeting and the Chairperson shall have the right to direct that those actions be modified so as to not cause disruption of the meeting.

VI. Amendment of Rules and Procedures

Amendments to these Rules and Procedures shall be adopted by an affirmative vote of two-thirds (2/3) of the members of the SWPC provided that written notice of any proposed amendment is given to the members at least ten (10) days prior to the vote thereon.

VII. Agenda Format

The agenda format for SWPC meetings shall be as follows:

1. Call Meeting to Order
2. Roll Call
3. Approve Minutes of Previous Meeting(s)
4. Approve Agenda
5. Unfinished Business -- this portion of the meeting is to ...
 - a. address items carried over from previous meetings.
6. New Business -- this portion of the meeting is to ...
 - a. address new issues,
 - b. receive and address information presented by DPA staff and/or special committees,
 - c. and to allow SWPC members to request inclusion of an item on a future agenda
7. Miscellaneous Business -- this portion of the meeting is for ...
 - a. announcements,
 - b. discussion of future meetings,
 - c. general comments by SWPC members and DPA staff,
 - d. and such other items of business as may come before the SWPC.
8. Public Comment -- this portion of the meeting is to ...
 - a. allow public comment on items not on the agenda
 - b. allow the public to request inclusion of an item on a future agenda
9. Adjourn Meeting

VIII. Adoption of Rules & Procedures

These Rules and Procedures shall not become operative until adopted by an affirmative vote of two-thirds (2/3) of the members of the SWPC.

Oakland County Solid Waste Planning Committee

Attendance Record

Member Name	Category	# 1 10-14-93	# 2 10-28-93	# 3 11-11-93	# 4 12-2-93	# 5 12-16-93	# 6 2-17-94	# 7 3-10-94	# 8 4-14-94	# 9A 4-21-94	# 9B 4-28-94	# 11 5-26-94	# 12 6-2-94	# 13 6-8-94	Attendance
Bates, Nancy	Elected City Official		P			X	D	D	D	D			D	D	61.54%
Carpenter, Timothy	Environmental	X	X	X	X	X	X	X	X	X	X	X	X	X	100.00%
Druschitz, Alan	General Public	X	X	X	X	X	X	X	X	X	X	X	X	X	100.00%
Dyl, Sandra	General Public	X	X	X	X	X	X	X	X	X	X	X	X	X	100.00%
Furlong, Dawn	Environmental	X	X	X	X	X	X	X	X	X	X	X	X	X	100.00%
Izzo, Michael	Elected Twp. Official	X	X	X	X	X	X	X	X	X	X	X	X	X	92.31%
Jadun, Lenora	Solid Waste Industry				X	X	X	X	X	X	X	X	X	X	69.23%
Leininger, Robert	Solid Waste Industry	X	X		X	X			X	X	X	X	X	X	76.92%
Levin, Yale	Solid Waste Industry	X	X	X	X	X		X	X	X	X	X			76.92%
Line, Robert	Solid Waste Industry	X	X	X	X	X	X		X	X	X	X			69.23%
Powers, Dennis	County Commissione	X	X	X	X	X	X	X	X	X	X	X	X	X	100.00%
Regan, Ardath	SEMCOG	X	X	X	X	X	X	X	X	X	X	X	X	X	100.00%
Seabright, Samuel	Industrial Generator	X	X		X							X	X	X	46.15%
Waffen, Thomas	General Public	X	X		X	X	X	X	X	X	X		X	X	84.62%

Members Attending 12 13 9 13 13 11 11 13 13 13 10 11 12 12 11.77

Percent Attending 85.71% 92.86% 64.29% 92.86% 92.86% 78.57% 78.57% 92.86% 92.86% 71.43% 78.57% 85.71% 85.71% 84.07%

Advisory Members

Conners, Pete			X	X		X		X	X	X	X	X	X	X	83.33%
Filler, Claudia			X	X	X	X		X	X	X	X	X	X	X	91.67%
Justin, Robert			X	X	X	X		X	X	X	X	X	X	X	91.67%
Kresnak, Patrick			X	X	X	X		X	X						41.67%
Pirrotta, Rich			X			X	X								25.00%
Schlaf, Gerald			X	X			X	X	X	X	X	X			66.67%
Schutte, George										X	X		X	X	41.67%
Shay, Al			X	X											16.67%
Starbuck, Ted					X	X	X	X							41.67%
Strang, Jerry				X	X	X			X	X					41.67%
Toby, Daryl			X	X	X	X	X	X			X				58.33%
Tyler, Michael			X		X	X									25.00%
Wesson, Lawrence				X		X	X								25.00%

Advisory Members Attending 8 9 7 10 5 7 6 6 6 6 4 4 6.50

Percent Attending 61.54% 69.23% 53.85% 76.92% 38.46% 53.85% 46.15% 46.15% 46.15% 46.15% 30.77% 30.77% 50.00%

Total, Members and Advisory Members 12 21 18 20 23 16 18 19 19 16 17 16 16

Percent of Total Possible Attendance 85.71% 77.78% 66.67% 74.07% 85.19% 59.26% 66.67% 70.37% 70.37% 59.26% 62.96% 59.26% 59.26% 68.34%

Elected Official's Designees

Bates	Biasell, Thomas	1-24-94	X				D	D	D	D			D	D	
Izzo	None named														
Powers	Kaczmar, Eugene	12-21-93	X	X	X	X	X	X	X	X	X	X			

Attendance by the Public

Approximate number in audience 7 25 15 27 40 40 23 30 22 18 21 12 9 22.23

Legend: X - indicates attendance
P - indicates attendance by predecessor
D - indicates representation by Designee

Notes: SWPC Members originally appointed to two year terms ending on 9-22-95 by the Board of Commissioners on September 23, 1993.
SWPC Advisory Members originally appointed to two year terms ending on 9-22-95 by the Board of Commissioners on October 21, 1993.
Nancy Bates was appointed to replace Ben Marks (who lost a local election in 11-93) by the Board of Commissioners on December 9, 1993.

* The 4-21-94 meeting was recessed to 4-28-94 and the 6-2-94 meeting was recessed to 6-8-94.