



JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

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

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

December 5, 2000

Mr. Phillip Johnson, Chairperson
Charlevoix County Board of Commissioners
203 Antrim Street
Charlevoix, Michigan 49720

Dear Mr. Johnson:

The Department of Environmental Quality (DEQ) received the locally approved update to the Charlevoix County Solid Waste Management Plan (Plan) on July 14, 2000. Except for the items indicated below, the Plan is approvable. As outlined in the August 29, 2000 letter to Mr. Larry Sullivan, Planning Director, Charlevoix County Planning Department, from Mr. Stan Idziak, DEQ, Waste Management Division, and as confirmed by letter dated September 13, 2000, from you to Mr. Idziak, the DEQ makes certain modifications to the Plan as discussed below.

On [pages 46](#) and [48](#), item O reads:

Conditions may include, but not be limited to a requirement to document recycling activities in the export county, ban the landfilling of specified materials, enforce the provisions of the solid waste plan, abide by the Charlevoix County Solid Waste Ordinance at such time as one exists.

The first part of this statement indicates that other unspecified conditions, in addition to the four mentioned, may be required under this item. These additional conditions are not defined elsewhere in the Plan. Therefore, this statement is too broad and arbitrary to be included in the Plan. This situation is remedied by revising item O, on both pages 46 and 48, to read:

Conditions include one or more of the following requirements to:
(1) document recycling activities in the export county, (2) ban the landfilling of specified materials, (3) enforce the provisions of the solid waste plan, and (4) abide by the Charlevoix County Solid Waste Ordinance at such time as one exists.

[On page 50, Table 1-B-2](#): This table contains three asterisks, (1) under the heading Authorized Quantity/Daily, (2) under the heading Authorized Quantity/Annual, and (3) under the heading Authorized Conditions2 next to the letter O. An explanation for the meaning of the asterisks was not included on this page, although it appears that the bullet symbol under item 1 was intended to define the asterisks. In any case, the

statement following the bullet, "Conditions and quantities of waste shall be negotiated between the landfill owner and respective companies utilizing the facility." is too broad and is open arbitrary decision-making by the parties involved. The statement following the bullet, "Conditions and quantities of waste shall be negotiated between the landfill owner and respective companies utilizing the facility." as well as the asterisks under the headings Authorized Quantity/Daily, Authorized Quantity/Annual, and Authorized Conditions2 next to the letter O, are deleted from the Plan. In addition, the letter O under the heading Authorized Conditions2 is deleted from the Plan.

On page 90, paragraph 7 reads:

MIRIS maps may contain errors in identifying and locating permanent and intermittent bodies of water such as creeks, streams, ponds, lakes, etc. Once this Plan is approved, the attached map becomes the ultimate source in determining the isolation distances from surface water and this cannot be changed regardless of on-site inspection of actual conditions at the site may reveal.

This statement is not clear as to its scope and is modified to read:

MIRIS maps may contain errors in identifying and locating permanent and intermittent bodies of water such as creeks, streams, ponds, lakes, etc. Once this Plan is approved, the attached map becomes the ultimate source in determining the isolation distances from surface water solely for the purpose of establishing whether a site is consistent with the Plan, and this determination cannot be changed regardless of what an on-site inspection of actual conditions at the site may reveal.

On page 91 of the Plan, paragraph 3, and page 92, paragraph 7, last sentence reads: "The decision as to whether the view is obscured shall be made by the Charlevoix County Planning Commission." This sentence outlines a procedure that constitutes a discretionary act by the Charlevoix County Planning Commission that may arbitrarily alter the Charlevoix County (County) siting criteria. Section 11538(3) of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), states:

An interim siting mechanism shall include both a process and a set of minimum siting criteria, both of which are not subject to interpretation or discretionary acts by the planning entity, and which if met by an applicant submitting a disposal area proposal, will guarantee a finding of consistency with the plan.

This sentence is deleted from paragraph 3, page 91, and paragraph 7, page 92 of the Plan and both paragraphs are revised to read:

A vegetative planting shall be established and maintained, outside the screen or buffer area, to enable it to blend into the area. The vegetative planting shall consist of a mixture of coniferous trees of differing types, which have a minimum height of six-foot each at the time of planting, that

will obscure the operational area. A site having naturally vegetated tree growth of at least six feet in height, which obscured the active area or a site located in an area where adjacent industrial and warehousing hide the view of the facility, shall be exempted from the planting requirements.

Also on page 91, under item 1 reads:

Will either comply with, or not be in violation of, any of the following Public Acts, Ordinances, and Rules, unless specifically exempted by PA 451, of 1994, as amended.

- Subdivision Control Act
- Land Division Act
- Condominium Act
- Soil Erosion & Storm Water Runoff Control Ordinance
- Sanitary Code
- All other applicable State and Federal Laws

County ordinances developed to regulate the collection, transportation, recycling, and disposal of solid wastes including those developed to implement this plan or portions thereof.

Local Zoning Ordinances to the extent they do not preclude the location of the facilities within a local community.

This section attempts to incorporate federal laws, state laws, and local ordinances of a wide and undefined extent into the Plan. It is not clear whether the acts and ordinances listed in this subsection have application to the siting of disposal areas. Insufficient information was provided to enable the DEQ to determine whether the area of regulation would conflict with or hinder DEQ regulatory authority or responsibility. Therefore, these statements are deleted from the Plan.

On page 92, number 2 reads:

Located on a State Highway or County Road designated as meeting the Michigan Department of Transportation's standards for a Class A route by either the Michigan Department of Transportation or the Charlevoix County Road Commission, or in the case of a privately owned road, one certified as meeting that standard. If a road meeting those standards does not exist at the time of application for the construction permit, one shall be constructed or improved prior to the facility being put into use. If the private road has been created for the sole purpose of serving the transfer station, it would not be necessary to construct the road to Class A standards.

The first sentence states that a disposal facility must be located on a Class A road in order to be consistent with the Plan. The next two sentences allow siting of a facility on a road that does not meet this standard so long as the road will be upgraded at a future

date. Consistency with a future standard cannot be determined objectively. Therefore, this paragraph has been modified to read:

The facility shall be located on a State Highway or County Road designated as meeting the Michigan Department of Transportation's standards for a Class A route by either the Michigan Department of Transportation or the Charlevoix County Road Commission. If a facility is not on such a road, the developer shall provide a signed statement consenting to provide for upgrading and/or maintenance of the road serving the facility.

[On page 94](#), under Plan Review, the following language is appended to the end of paragraph 1:

If the facility developer does not agree with the consistency decision by the County Planning Commission or if no consistency determination has been rendered within 60 days of the first meeting at which the proposal is accepted as being administratively correct, the proposal will be considered consistent with the Plan by the County, subject to the DEQ determination of consistency as part of the review of a construction permit application.

The developer of a disposal facility should expect that the consistency review will be conducted within a reasonable amount of time. If the County siting process is not limited to a particular time frame, it would be possible for the County to prevent the siting of a disposal area by not acting on the proposal.

[Also on page 94](#), under Application For Disposal Facility Review, A, the following language was added to the Plan:

Upon receipt of the application, the County Planning Department shall review the application for administrative completeness in accordance with the requirements listed in subparts 1 and 2 below. If it is not complete, the developer shall be notified within 30 working days and given the opportunity to provide additional information to make the application complete. The developer must provide this additional information to the County Planning Department within 15 working days. If no determination is made within 30 working days from the receipt of this additional information, the application shall be considered administratively complete.

This language was added to the Plan because the developer should expect a reasonable time for his application to be reviewed in the County siting process and should have the opportunity to correct any deficiencies in the application. If this process was not restricted to a particular time frame, it would be possible for the County to prevent the siting of a disposal area by not acting on the proposal.

[On page 99 of the Plan, item 3, letter C](#): "Ordinance regulating the siting, screening, and hours of operation of landfills and transfer stations in conformance with the requirements contained within the solid waste plan." In general, the DEQ will not

approve the broad inclusion of all local zoning authorizations in solid waste management plans as these ordinances may include provisions that will have siting impacts not included in the Plan's siting criteria; may provide for discretionary local decisions which may impermissibly impact siting decisions which, by law, are controlled by the siting provisions specified in the Plan; or may otherwise interfere with or conflict with DEQ's regulatory responsibilities. Therefore, the word "siting" is deleted from this sentence.

On page 103, Capacity Certifications: The Plan has been modified to include a Capacity Certification evaluation provided by the County, and approved by the DEQ, to specifically demonstrate that the County has this capacity in relation to the County's disposal needs, as well as the other areas served by these landfills. The original Plan did not contain such an evaluation.

The Michigan Resource Information System (MIRIS) maps included in the Plan are undated. On page 90, paragraph 6, the Plan specifically references MIRIS maps of the County dated August 25, 1989. The County has provided MIRIS maps with the proper date. These have been reviewed and approved by the DEQ and now replace the undated maps in the Plan.

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

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

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

Sincerely,



ACTING

Russell J. Harding
Director
517-373-7917

cc: Senator Walter H. North
Representative Andrew W. Neumann
Mr. Larry Sullivan, Planning Director, Charlevoix County
Mr. Arthur R. Nash Jr., Deputy Director, DEQ
Mr. Timothy R. Sowton, Legislative Liaison, DEQ
Mr. Jim Sygo, DEQ
Ms. Joan Peck, DEQ
Mr. Philip Roycraft, DEQ - Cadillac
Mr. Seth Phillips, DEQ
Mr. Stan Idziak, DEQ
Charlevoix County File

DRAFT
CHARLEVOIX COUNTY
SOLID WASTE
MANAGEMENT PLAN

2000 PLAN UPDATE

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 Plan has been prepared using that format without alteration.

ANTICIPATED DATE SUBMITTED TO THE DEQ: July 12, 2000

This Plan includes the entirety of Charlevoix County, including all municipalities located within.

DESIGNATED PLANNING AGENCY PREPARING THIS PLAN UPDATE:

CHARLEVOIX COUNTY PLANNING COMMISSION

CONTACT PERSON: LARRY SULLIVAN, PLANNING DEPARTMENT

ADDRESS: 301 STATE STREET, CHARLEVOIX, MI 49720

PHONE: (231) 547-7234 FAX: (231) 547-7217 E-MAIL: Lsullivan@nwm.cog.mi.us

CENTRAL REPOSITORY LOCATION(S): CHARLEVOIX COUNTY PLANNING DEPARTMENT, AND THE COUNTY CLERK'S OFFICE.

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EXECUTIVE SUMMARY

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

Charlevoix County encompasses an area of 416.9 square miles, excluding the area of Lake Michigan, within its corporate boundaries. The county contains a wide array of natural resources, including numerous water bodies, forests, farms, and open land.

These natural resources have had a major role in guiding the development of the county. In addition to being known for our outdoor recreational offerings of boating, fishing, swimming, and hunting, this area is also home to a number of small to medium sized manufacturing firms. These manufacturing and industrial uses have located here because of the natural resources, the water transportation routes, and/or the desire of those recreating in this area to locate their companies here to enable management to live here. In addition to our industrial base, there are viable commercial, construction and service sectors to support both the year around populace, as well as our seasonal visitors. Building permits are running approximately 1300 per year.

The table below provides a snapshot of the population, land use, and a breakdown of our economic base by community within the county.

OVERALL VIEW OF THE COUNTY

Township or Municipality Name	Population*	% Land Use			% of Economic Base**			
		Rural	Urban	Ag	For	Ind	Com	Oth
Day Township	1170	85	15	40	20	0	2	38
Boyne City	4123	15	85	0	0	50	40	10
Boyne Falls Village	549	5	95	0	20	0	70	10
Boyne Valley Twp (less Village)	1042	80	20	10	20	0	65	5
Chandler Township	258	97	3	10	30	10	0	50
City of Charlevoix	3573	0	100	0	0	20	70	10
Charlevoix Township	1442	20	80	0	5	50	30	15
City of East Jordan	3212	5	95	0	0	70	20	10
Evangeline Township	917	90	10	5	5	0	5	85
Eveline Township	1563	90	10	15	15	5	10	55
Hayes Township	1871	88	12	10	10	30	10	40
Hudson Township	679	97	3	20	20	0	0	60
Marion Township	1605	90	10	15	15	5	10	55
Melrose Township	1570	90	10	20	20	2	25	33
Norwood Township	731	91	9	50	20	0	10	20
Peaine Township	183	95	5	5	30	5	5	55
St. James Township	391	70	30	0	10	10	60	20
South Arm Township	1991	90	10	15	15	20	10	40
Wilson Township	1973	92	8	30	30	10	10	20
Total Population	<u>28,884</u>							

* Average Year Around Population (incorporates annual average of seasonal population)

** Ag = Agriculture; For = forestry; Ind = Industry; Com – Commercial; Oth = All other economic bases.

permanently around population is projected to increase approximately 14% during the next ten years. This additional population will contribute to the generation of waste within Charlevoix County. Our economy has been good in recent years, with recent unemployment rates as low as 2.6%. Recent information from the Michigan Department of Career Development/Employment Service Agency indicates that of the 14,000 plus members of the labor force, 31% are employed in manufacturing, 56% in the service industry, with 13% employed by government.

CONCLUSIONS

The following briefly describes all solid waste management systems considered by the County and how each alternative will meet the needs of the County. The manner of evaluation and ranking of each alternative is also described. Details regarding the Selected Alternatives are located in the following section. Details regarding each non-selected alternative are located in Appendix B.

The County staff and SWPC reviewed a set of solid waste management program strategies in the following eight areas:

- Clean Community
- Drop-off Residential Recycling
- Residential Yard Waste Composting
- Material Transfer and Processing
- Recycling Incentives
- Curbside Residential Recycling
- Commercial Recycling
- Disposal

The following six system options were then developed by pulling from the above programs and putting them together as complete solid waste management systems.

- A: Basic Waste Collection and Disposal Program
- B: Level 1 Basic Clean Community and drop-off Recycling Program
- C: Level 2 Expanded Clean Community and drop-off Recycling Program
- D: Level 3 Expanded Clean Community and Curbside Recycling Program
- E: Level 4 Expanded Clean Community and Comprehensive Recycling Program
- F: Level 5 Advanced Recovery Systems

Each of the six options was then examined based on their key features, advantages/disadvantages, overall performance and cost impact and applicability for the county.

At this stage in the selection process, some options were discarded as unsuitable for the county based on discussion and evaluation of each approach and its ability to:

- Build on the strengths of the local and regional situation,
- Address current deficiencies and weaknesses,
- Work with organizational approaches that the County is willing to consider,
- Be fundable through systems that the County can implement,
- Respond to and build community involvement and support,
- be enforceable, and
- Set measurable goals that can be tracked to determine progress.

As part of this process, the overall plan goals and objectives were considered as were other sources of planning data described in the balance of this Section. The process also included surveying of the views of those involved in the planning process and surveying of others considered to be critical to implementation of the plan - primarily local government officials.

Two of these system options were then further developed into system alternatives. More details for this two-system alternative were then discussed and developed, including possible approaches to system management roles/responsibilities, as well as the overall fit to the county.

Alternative 1 was chosen to best meet the needs of the county, as well as having the greatest opportunity to be implemented. Upon meeting the items contained in Alternative 1, the county's efforts would be directed to meeting those items contained in Alternative 2, in the second five-year period.

**Charlevoix County Selected System Alternative Phase I
Detailed System Component Descriptions**

<p>Clean Community:</p> <p>Comprehensive solid waste collection services would be made available to all households and businesses in the County. Illegal dumping and litter would be policed with enforcement of violations. Spring/fall cleanup days would be provided in more urban areas with scavenging/trading/reuse encouraged and recycling of as many materials left as possible. Household hazardous waste collection services would be provided and expanded to include collection of small quantities of agricultural pesticides and herbicides. Adopt a "____" programs would be organized with volunteers and business/service group sponsorship for periodic cleaning of roadsides, stream banks, lakeshores, parks and forests.</p>
<p>Recycling Incentives:</p> <p>Proactive education and promotion strategies would encourage responsible solid waste management and strong reduce/reuse/recycle behavior. Pay As You Throw (PAYT) programs would be heavily promoted throughout the County. Recycling drop-offs would add more materials to encourage overall participation in program by more citizens and businesses. High visibility promotion and education programs would be in place. A ban on landfill disposal for certain items would be evaluated and targeted for a period five years away should specified levels of diversion not be reached. This will provide a further incentive for increased adoption and participation in recovery programs.</p>
<p>drop-off Residential Recycling:</p> <p>A permanent network of drop-off sites for recycling would be located in the County, open at convenient hours most days of the week. Material would be collected in a partially commingled form to make use of the facilities easier. A consistent range of recyclable materials would be collected at each of the drop-off sites. Existing drop-offs in East Jordan, Beaver Island, Melrose Township, Boyne Valley and the Cedar Ridge Landfill would be improved/expanded and additional sites added in three locations, possibly Boyne City, City of Charlevoix, the State Park, and/or Hays or Bay Township. Materials at a minimum would include paper corrugated cardboard, glass, steel cans and #2 HDPE.</p>
<p>Curbside Residential Recycling:</p> <p>Commercial waste collection companies would be encouraged to provide subscription curbside recycling for residents that were willing to make their own arrangements for the service with area haulers. Note, however, that a critical mass of participants are needed to make collection economically viable.</p>
<p>Residential Yard Waste Composting:</p> <p>Leaf collection would be provided in all cities, and the village of Boyne Falls. Backyard composting would be encouraged through distribution of backyard bins at discount rates. At least one and possibly more permanent drop-off options for yard waste would be provided throughout the County.</p>

Charlevoix, Boyne City, and East Jordan would continue current collection programs, with expansion of collection at the curb in some townships. Other municipalities including Boyne Falls would be added. At least one permanent drop-off site would be established in conjunction with recycling drop-off to accept seasonal yard waste.

Commercial Recycling:

Businesses would be encouraged to use the drop-off recycling network for smaller volumes of paper, corrugated cardboard and containers. Arrangements would be made for larger volumes to be delivered to a site capable of handling compacted or loose loads of commercial recyclables. Businesses would be encouraged to contract with their hauler for collection of cardboard and other high volume recyclable materials.

Material Transfer and Processing:

Arrangements would be made to provide access to a material recovery facility (MRF) to service all recycling collectors in the system. These arrangements would include guarantees that sufficient capacity was available to meet the County's needs over the long term and that the facility would be able to process commingled containers and commingled fibers as well as presorted recyclables like OCC.

Currently, Emmet County DPW and Waste Management Facilities in the Traverse City area offer the best options for processing. Note that Emmet does not yet handle commingled containers.

Disposal:

Existing landfills in the region would be used with direct haul by compacting collection vehicles being the primary method of transportation to the landfills at such time as the Cedar Ridge Recycling and Disposal Facility ceases to accept waste, the primary method of transport would be by trailers, loaded at transfer stations owned by the public and/or private sector, including Charlevoix County, Top Rank Disposal, Waste Management, and other companies that might desire to offer that service. The existing network of transfer facilities for solid waste drop-off would be available, including Boyne Valley Township, Melrose Township, East Jordan, Top Rank and Beaver Island.

**Charlevoix County Selected System Alternative Phase II
Detailed System Component Descriptions**

Clean Community:

Comprehensive solid waste collection services would be made available to all households and businesses in the County. Illegal dumping and litter would be policed with enforcement of violations. Spring/fall cleanup days would be provided in more urban areas with scavenging/trading/reuse encouraged and recycling of as many materials left as possible. Household hazardous waste collection services would be provided and expanded to include collection of small quantities of agricultural pesticides and herbicides -- all coordinated from a single permanent drop-off site. Adopt a "_____ " programs would be organized with volunteers and business/service group sponsorship for periodic cleaning of roadsides, streambanks, lakeshores, parks and forests.

Recycling Incentives:

Proactive education and promotion strategies would encourage responsible solid waste management and strong reduce/reuse/recycle behavior. Pay As You Throw (PAYT) programs would be widespread and aggressively promoted throughout the County. Recycling collection programs as well as drop-offs would add more materials to encourage overall participation in program by more citizens and businesses. Selected materials (e.g. OCC) would be considered for a disposal ban targeted for the end of year 5 should specified levels of diversion not be achieved.

drop-off Residential Recycling:

A permanent network of six drop-off sites for recycling would be located in the County, open at convenient hours most days of the week. Material would be collected in a partially commingled form to make use of the facilities easier (provided a processing option can be secured). Two additional "flagship" drop-off sites would be larger than the rest, be staffed, have an educational component, and collect the largest number of different types of

materials, such as boxboard, textiles, scrap metal, milk cartons and other materials. (See 1-5 year planning period for description of sites.)

Curbside Residential Recycling:

Curbside recycling would be provided to all residents in a designated curbside service district that included most of the cities of Charlevoix, Boyne City, and East Jordan, as well as other densely populated areas. Subscription service outside this district would be strongly encouraged.

Residential Yard Waste Composting:

Leaf collection would be provided in all cities, and the Village of Boyne Falls.. Backyard composting would be encouraged through distribution of backyard bins at discount rates. A similar mulching mower program would encourage grass cycling. Permanent drop-off options for yard waste would be provided throughout the County with at least one "flagship" site taking all types of yard waste and providing finished compost for distribution to residents. At least one compost processing operation is recommended, including some equipment capable of turning and mixing materials; an alternative strategy could be working with a local farmer to develop a land application program.

Commercial Recycling:

A permanent site would be provided for businesses to drop-off a wide variety of recyclables including commingled containers and commingled paper. A business recycling service district would be established and businesses within the district assisted with contracting for recycling collection services provided by licensed haulers/service providers.

Material Transfer and Processing:

A material recovery facility (MRF) would be made available to all recycling collectors in the system. Ideally, the facility would be able to process commingled containers and commingled fibers as well as presorted recyclables like OCC. Commercial recyclables would be able to be tipped at the facility for a reasonable fee that was lower than the tipping fee at area landfills. Some capability would be provided to remove contaminants and small quantities of solid waste from loads of recyclables. Transfer to the Emmet County, or Waste Management MRF's in Emmet County or Traverse City, may remain the most viable option, however, a small, "mini" MRF could be considered for the County.

Disposal:

Existing landfills in the region would be used with wastes being aggregated into larger, denser loads at transfer stations. Some direct haul to landfills by compacting collection vehicles being the primary method of transportation to the landfills. A network of drop-off facilities for solid waste would be available including a "flagship" site that took other types of waste (bulky, C&D, etc.) with this system preferably located at same sites as recycling drop-offs. A waste transfer facility would be planned should direct haul options for landfilling no longer be available or be cost prohibitive.

Allowances have been made in the plan for Charlevoix County, as a corporate entity to develop both Type II and Type III Landfills, to service the general public, should the need arise. Type III Monofills are permitted for industrial firms that generate quantities of waste in the course of their manufacturing process. Public and privately owned Type A and B Transfer Stations are allowed in unlimited numbers to react to the needs of the market places. County owned landfills are intended to serve both the waste industry as well as the general public with uniform posted rates. At the present time, private owned landfills can limit who they accept waste from as well as charge widely varying rates.

INTRODUCTION

GOALS, OBJECTIVES, AND STRATEGIES

The Goal, Objectives, and Strategies we have chosen provide us with a framework for the development of this Plan, and our future solid waste collection, transportation and disposal system. We use the following definitions for our goal, objectives, and strategies, so individuals using this plan will have a better understanding of our policy statements outlined below.

A GOAL is a general and idealistic description of the ideal end state toward which we are striving. Its purpose is to give us consistent direction.

An OBJECTIVE is an achievable point in the general direction of the goal. Its attainment marks our progress toward the Goal. An objective should have dates and other numbers whenever possible, for it is essential to know when it has been reached.

A STRATEGY is a procedure or course of action selected to help us reach our objective.

Using the above definitions, many hours of thought and discussion have been put into the development of the following statements.

- GOAL:** A solid waste management system that ensures for Charlevoix County (its geographic area and inhabitants), the following in descending order of importance:
- protection of our health,
 - protection of our environment, conservation of our natural resources,
 - economical, both short and long term, and
 - convenient.
- OBJECTIVE I.** A locally approved solid waste management plan by JULY 1, 2000.
- STRATEGY 1.1** Develop a data base that includes an inventory of facilities, identification of problems, demographics, land use patterns, and environmental conditions.
- STRATEGY 1.2** Explore alternative systems that include all waste management options such as, resource conservation, resource recovery, co-generation, energy recovery, composting, collection, transportation and disposal of waste, including institutional arrangements and management alternatives.
- STRATEGY 1.3** Selection of a specified system of managing solid waste and designate operators of the system (government and/or private enterprise).
- STRATEGY 1.4** Develop a public participation program that informs the public about the true costs of solid waste, the progress of the plan, material that is available, and how they can assist in developing and implementing the plan.
- STRATEGY 1.5** Develop and include a siting criteria for use in identifying potential sites for Type III Landfills.
- STRATEGY 1.6** Develop siting criteria that allows for transfer stations in those communities that so desire an alternative to collection and to allow waste hauling companies to combine loads from smaller trucks to allow for economical methods of moving waste in addition to reducing truck traffic.

- OBJECTIVE II. Encourage and promote a system of resource conservation and waste reduction through resource recovery and recycling whenever possible in order to reduce the amount of solid waste generated by 20%, compost 20% of the waste that is generated, recycle 30% of the waste that is generated, and reduce the amount of waste by recovering energy from it thereby reducing an additional 10% of the waste with a maximum of 15% of the waste that is generated being landfilled by the year 2002.
- STRATEGY 2.1 Develop a series of recycling centers & drop off locations, and encourage the public to increase levels of recycling of all materials including, but not limited to, paper, metals, glass, oil and plastics.
- STRATEGY 2.2 Encourage the composting of yard wastes by individuals, communities and private companies.
- STRATEGY 2.3 Encourage the purchase of durable goods that have an increased expected lifespan.
- STRATEGY 2.4 Encourage a reduction in the use of disposable items such as paper plates, plastic tableware, etc.
- STRATEGY 2.5 Encourage individuals and businesses to donate or sell items in useable condition, rather than discarding them.
- STRATEGY 2.6 Discourage the concept of planned obsolescence among individuals purchasing goods and businesses producing them.
- OBJECTIVE III. The protection of the environment, the quality of life for residents and the enhancement of our aesthetics.
- STRATEGY 3.1 Prohibit the disposal of hazardous waste in Type II Landfills, and hazardous or Type II waste in Type III Landfills.
- STRATEGY 3.2 Require that solid waste management practices are conducted in such a manner so as to comply at a minimum with state and nationally adopted air and water quality standards.
- STRATEGY 3.3 Promote the development and enforcement of laws, ordinances, and regulations at the state, county, city/village and township level, governing the location of, appearance, odor, noise, and other public health and aesthetic impacts resulting from the collection, storage, transportation, processing, and disposal of solid waste.
- STRATEGY 3.4 Require berm planting, fencing, or other methods of screening from view of, Transfer Stations, storage, processing and disposal facilities.
- STRATEGY 3.5 Require that landfills and dumps not meeting state standards be closed or brought into compliance.
- OBJECTIVE IV. A solid waste system that continues to be economically feasible, and environmentally sound, for the residents of Charlevoix County.
- STRATEGY 4.1 Develop a solid waste management system that is affordable to the residents and visitors to the county.
- STRATEGY 4.2 Encourage the development of solid waste processing and disposal alternatives that serve a multi-county or regional area, thus reducing the costs to people within the county.
- STRATEGY 4.3 Require processing and disposal facilities to be operated in such a manner as to eliminate costly cleanup measures in the future.

- STRATEGY 4.4 Locate transfer stations, storage, processing and disposal sites adjacent to "All Season Roads" to minimize the need for improving road beds and/or providing costly road repairs due to truck traffic, going to and from the facilities.
- STRATEGY 4.5 Promote the reuse of closed disposal facilities for transfer stations, recreation facilities, or to meet other needs identified in the county and township land use plans.
- STRATEGY 4.6 Endorse the reuse and recycling of items entering the waste stream.
- STRATEGY 4.7 Conserve the amount of land used for actual fill operations through the use of shredders, balers, and compactors, when shown to be effective.
- STRATEGY 4.8 Promote the use of the most environmentally safe and efficient solid waste collection, storage, transportation, processing, and disposal services regardless of ownership by the public or private sector.
- STRATEGY 4.9 Promote fair and equal competition in the private sector in providing solid waste services.

II DATA BASE

This section identifies sources of waste generation within the county, total quantity of solid waste generated to be disposed, and sources of the information

The following database is derived from the listed sources:

Charlevoix County Planning Department
NWM Council of Governments
"County Business Patterns"
Interviews with solid waste generators and collection companies.
Resource Recycling Systems, Inc.

Residential solid waste data was calculated by the consultant, Resource Recycling Systems, Inc. using the rate of 2.6 pounds of solid waste generated per person per day (urban and resort areas) and 2.0 pounds per person per day for rural areas. These numbers were then modified to reflect seasonal population adjustments and overall population growth estimates for the next ten years. Finally, actual reported disposal and waste reduction data were used to adjust generation rates.

TABLE II-1 Residential Waste Generation by Municipality

Municipality	1998 Annual Tons	2003 Annual Tons	2008 Annual Tons
Bay Township	411	478	513
Boyer City	1819	1957	1876
Boyer Falls Village	260	301	332
Balance of Boyer Valley Twp.	371	426	457
Chandler Township	108	105	113
Charlevoix City	1943	2044	1920
Charlevoix Twp.	654	766	822
East Jordan City	1428	1717	1854
Evangeline Twp.	334	375	402
Eveline Township	552	639	686
Hayes Township	656	765	821
Hudson Township	257	277	296
Marion Township	569	656	705
Melrose Township	558	642	689
Norwood Township	277	298	319
Peaine Township	94	75	81
St. James Township	165	159	171
South Arm Twp.	704	808	861
Wilson Township	699	806	865
Charlevoix County Total	11857	13297	13784

II.1.2 Commercial/Industrial Waste Generation

Commercial waste generation was determined by multiplying estimated pounds per employee per day for specific Standard Industrial Classification (SIC) by the actual employment numbers in Charlevoix County. Pounds per employee per day figures were generated by Resource Recycling Systems, Inc., based on previous SIC code-specific surveys and studies of various counties in the United States. Employment numbers were obtained for the year 1995 from U.S. Census data on County Business Patterns. Waste generation numbers were then modified based on actual reported waste generation by a phone survey of major generators within the County. The number of workdays per year is assumed to be 260.

TABLE II-2 COMMERCIAL/INDUSTRIAL WASTE GENERATION VOLUMES

SIC	SIC Description	## of employees (1995)*	pds/ person/ day	Tons/ year (1995)
0700-0999	Agriculture, Forestry, Fishing	14	5	9
1000-1499	Mining	0	4	0
1500-1999	Construction	632	23	1890
2000-3999	Manufacturing	3197	32	13300
4000-4999	Transportation/Public Utilities	498	5	324
5000-5199	Wholesale trade	64	12	100
5200-5999	Retail trade	1870	12	2917
6000-6999	Finance, Insurance, Real Estate	373	16	776
7000-7999	Services	1817	8	1890
99--	Unclassified establishments	0	6	0
		8,465	19.27	21,205
		<i>Total</i>	<i>Average</i>	<i>Total</i>

*From 1995 County Business Patterns Data

II.1.3 Special Waste Streams

Sludge is generated by Boyne City, Charlevoix, and East Jordan municipalities and is land applied to local farmland, and is used as a soil conditioner on Medusa Company overburden spoil piles.

Other special wastes in Charlevoix County include.....

TABLE II-3 SPECIAL WASTE VOLUMES

Source	Material	Tons per year generated	Tons needing solid waste disposal
Southdown Cement.	Kiln dust	75,000	75,000
East Jordan Iron Works	Foundry sands, fly ash	81,000	61,600
Big Rock Nuclear Power Plant	Decommissioning		

Southdown is a major waste generator in the county, with kiln dust generation estimated at 75,000 tons per year. This waste is disposed in an on-site, Type III landfill with an expected life of 40 years. This facility is a monofill, which will only be used to dispose of cement kiln dust.

East Jordan Iron Works, a major employer in the County with approximately 700 employees, generates approximately 81,000 tons of foundry sand, slag, construction debris, ash and general refuse per year. An estimated 19,400 tons of slag is recycled into various products including concrete blocks. Other materials recovered at the facility include pallets, cardboard, metal banding, fluorescent bulbs, and waste oil and coolant. The company is actively pursuing recovery alternatives for much of the foundry sand it produces, however, this material is currently disposed at the Cedar Ridge landfill, with much of it used for daily cover.

Decommissioning of the Big Rock Nuclear Power Plant is expected to generate a significant volume of waste, however, the timeline and volume is not currently known, nor the final disposition of hazardous and non-hazardous material from the facility.

TABLE II-4 Major Waste Generators in Charlevoix County

Generator	Location	Type	## empl.
Harbor Industries	Charlevoix	Manufacturing	150
Lexamar	Boyne City	Manufacturing	240
Lexalite	Charlevoix	Manufacturing	183
East Jordan Iron Works	East Jordan	Manufacturing	700
Dura Mechanical	East Jordan	Manufacturing	300
Boyne Mountain	Boyne Falls	Ski/golf resort	400
Charlevoix Schools	Charlevoix	School	150 approximately
Boyne City Schools	Boyne City	School	200 approximately
East Jordan Schools	East Jordan	Schools	135 approximately
Charlevoix Hospital	Charlevoix	Hospital	215
Grandvue Facility	East Jordan	Medical Care	140
Town & Country Cedar Homes	Boyne Falls	Saw mill	40 approximately
Matelski Lumber Co	Boyne Falls	Lumber	33
William Hunt & Son	Boyne Falls	Pallets	3

TABLE II-5 TOTAL QUANTITY OF SOLID WASTE GENERATED

Sector	1998 Tons Generated	2003 Tons Generated	2008 Tons Generated
Residential	11,857	13,297	13,784
Commercial	8,256	8,799	9,355
Industrial	13,889	14,803	15,740
Special*	156,000	156,000	156,000
TOTAL ANNUAL TONS	190,002	202,899	204,879

* Sand, slag and other debris from East Jordan Iron Works and Southdown Kiln Dust

Current recovery programs for residential, commercial and industrial solid waste in the county divert an estimated 4-5% of the waste stream (not including East Jordan Iron Works). These programs are expected to continue to grow, and increased recovery projections are included in the estimates for disposal below.

TABLE II-6 TOTAL QUANTITY OF SOLID WASTE NEEDING DISPOSAL:

Sector	1998 Tons Disposed	2003 Tons Disposed	2008 Tons Disposed
Residential	11,282	11,887	10,209
Commercial/Industrial	21,383	21,241	18,821
Special *	136,600	136,600	136,600
TOTAL ANNUAL TONS	169,265	169,728	165,630

* Sand, slag and other debris from East Jordan Iron Works and Southdown Kiln Dust.

II-2 SOLID WASTE DISPOSAL AREAS

Inventory and description of all solid waste disposal areas within the County or to be utilized by the County to meet its disposal needs for the planning period.

- Beaver Island Transfer Station
- Boyne Valley Township Transfer Station
- East Jordan Transfer Station
- Melrose Township Transfer Station
- Top Rank Transfer Station
- Cedar Ridge Type II Landfill*
- Cedar Ridge Transfer Station
- Glen's Landfill (Leelanau County)
- CES Waters Landfill (Crawford County)
- Elk Run Landfill (Presque Isle County)
- Montmorency – Oscoda Landfill (Montmorency County)
- Northern Oaks (Clare County)
- Southdown Cement Type III Monofill.
- Whitefeather Landfill (Bay County)
- Emmet County Transfer Station

* Scheduled to close during the early years of this Plan. (Upon the permitted 40 acres being filled to capacity.)

Descriptions of these facilities follows:

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Beaver Island Transfer Station

County: Charlevoix Location: Town T39N Range R10W Section(s) 34

Map identifying location included in Attachment Section: Yes X No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: Currently, but not limited to Cedar Ridge Landfill, Elk Run Landfill, CES (Waters) and Emmet County Transfer Station.

x Public Private Owner: Peaine and St. James Townships

Operating Status (check)

x open
 closed
x licensed
 unlicensed
 construction permit
 open, but closure pending

Waste Types Received (check all that apply)

x residential
x commercial
x industrial
x construction & demolition
 contaminated soils
 special wastes *
x other: Trees and bush

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: acres
Total area permitted: All acres
 Operating: acres
 Not excavated: acres

Current capacity:
Estimated lifetime: years
Estimated days open per year: 300 days
Estimated yearly disposal volume: 280-300 tons of baled and boxed refuse

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Boyne Valley Township Transfer Station

County: Charlevoix Location: Town T32N Range R5W Section(s) 9

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

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: Currently Cedar Ridge Landfill, Elk Run Landfill, CES (Waters) and Emmet County Transfer Station.

Public _____ Private Owner: Boyne Valley Township

Operating Status (check)		Waste Types Received (check all that apply)	
<input checked="" type="checkbox"/>	open	<input checked="" type="checkbox"/>	residential
_____	closed	_____	commercial
<u>N/A</u>	licensed	_____	industrial
<u>N/A</u>	unlicensed	_____	construction & demolition
_____	construction permit	_____	contaminated soils
_____	open, but closure pending	_____	special wastes*
		_____	other: _____

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

Size:

Total area of facility property: 10 acres
Total area sited for use: All acres
Total area permitted: _____ acres
Operating: _____ acres
Not excavated: _____ acres

Current capacity: _____
Estimated lifetime: _____ years
Estimated days open per year: 104 days
Estimated yearly disposal volume: 6,500 loose cubic yards

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: East Jordan Transfer Station

County: Charlevoix Location: Town T32N Range R7W 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: Currently, but not limited to Cedar Ridge Landfill, CES (Waters), Elk Run Landfill and Emmet County Transfer Station.

Public Private Owner: City of East Jordan

Operating Status (check)		Waste Types Received (check all that apply)	
<input checked="" type="checkbox"/>	open	<input checked="" type="checkbox"/>	residential
<input type="checkbox"/>	closed	<input checked="" type="checkbox"/>	commercial
<u>N/A</u>	licensed	<input checked="" type="checkbox"/>	industrial
<u>N/A</u>	unlicensed	<input checked="" type="checkbox"/>	construction & demolition
<input type="checkbox"/>	construction permit	<input type="checkbox"/>	contaminated soils
<input type="checkbox"/>	open, but closure pending	<input type="checkbox"/>	special wastes *
		<input type="checkbox"/>	other: _____

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

Site Size:

Total area of facility property: 40 acres

Total area sited for use: All acres

Total area permitted: _____ acres

 Operating: _____ acres

 Not excavated: _____ acres

Current capacity: _____

Estimated lifetime: _____ years

Estimated days open per year: 104 days

Estimated yearly disposal volume: 3,800 loose cubic yards

(if applicable)

Annual energy production:

 Landfill gas recovery projects: _____ megawatts

 Waste-to-energy incinerators: _____ megawatts

FACILITY DESCRIPTIONS

ility Type: Type B Transfer Station

Facility Name: Melrose Township Transfer Station

County: Charlevoix Location: Town T33N Range R5W Section(s) 9

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: Currently, but not limited to, Cedar Landfill, CES (Waters), Elk Run Landfill and Emmet County Transfer Station.

Public Private Owner: Melrose Township

Operating Status (check)

open
 closed
 N/A licensed
 N/A 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:

Size:

Total area of facility property: APPRX 18 acres
Total area sited for use: ALL acres
Total area permitted: _____ acres
Operating: _____ acres
Not excavated: _____ acres
Current capacity: _____
Estimated lifetime: _____ years
Estimated days open per year: 105 (2 PER WK) days
Estimated yearly disposal volume: 4500 cubic yards annually

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station # 1

Facility Name: Top Rank Transfer Station

County: Charlevoix Location: Town T33N Range R8W Section(s) 4

Map identifying location included in Attachment Section: Yes X No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: Currently, but not limited to Cedar Ridge, CES (Waters) and Elk Run Landfill.

 Public x Private Owner: Top Rank Disposal, Inc.

Operating Status (check)

x open
 closed
N/A licensed
N/A unlicensed
 construction permit
 open, but closure pending

Waste Types Received (check all that apply)

x residential
x commercial
x industrial
x 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: ALL acres
Total area permitted: acres
 Operating: acres
 Not excavated: acres

Current capacity:
Estimated lifetime: years
Estimated days open per year: 312 days
Estimated yearly disposal volume: 4,200 - 5,000 yrds/month

(if applicable)

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

QUALITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Top Rank Transfer Station

County: Charlevoix Location: Town T34N Range R8W Section(s) 33

Map identifying location included in Attachment Section: Yes XNo

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: Currently, but not limited to Cedar Ridge, CES (Waters) and Elk Run Landfill.

 Public xPrivate Owner: Top Rank Disposal, Inc.

Operating Status (check)

x open
 closed
N/A licensed
N/A unlicensed
 construction permit
 open, but closure pending

Waste Types Received (check all that apply)

x residential
x commercial
x industrial
x 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: ALL acres
Total area permitted: acres
Operating: acres
Not excavated: acres

Current capacity:
Estimated lifetime: years
Estimated days open per year: 312 days
Estimated yearly disposal volume: 4,200 - 5,000 yds/month

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Glen's Sanitary Landfill

County: Leelanau Location: Town T28N Range 13W Section(s) 35

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

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 (non-friable)

Site Size:

Total area of facility property: 460 acres
Total area sited for use: 133 acres
Total area permitted: 133 acres
 Operating: 14.8 acres
 Not excavated: 89.3 acres
Current capacity: 22,000,000 cubic yards
Estimated lifetime: 60 years
Estimated days open per year: 264 days
Estimated yearly disposal volume: 300,000 gate cubic yards

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Cedar Ridge Landfill

County: Charlevoix Location: Town T33N Range R7W Section(s) 19

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

Operating Status (check)		Waste Types Received (check all that apply)	
<input checked="" type="checkbox"/>	open	<input checked="" type="checkbox"/>	residential
<input type="checkbox"/>	closed	<input checked="" type="checkbox"/>	commercial
<input checked="" type="checkbox"/>	licensed	<input checked="" type="checkbox"/>	industrial
<input type="checkbox"/>	unlicensed	<input checked="" type="checkbox"/>	construction & demolition
<input type="checkbox"/>	construction permit	<input checked="" type="checkbox"/>	contaminated soils
<input checked="" type="checkbox"/>	open, but closure pending	<input checked="" type="checkbox"/>	special wastes *
			other: _____

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

Foundry sand and fly ash from East Jordan Iron Works.

Site Size:

Total area of facility property:	<u>40</u>	acres
Total area sited for use:	<u>40</u>	acres
Total area permitted:	<u>40</u>	acres
Operating:	<u>21</u>	acres
Not excavated:	<u>0</u>	acres
Current capacity:	<u>approx. 370,000</u>	bank cubic yards
Estimated lifetime:	<u>2.5</u>	years
Estimated days open per year:	<u>260</u>	days
Estimated yearly disposal volume:	<u>311,000</u>	gate cubic yards

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: City Environmental Svcs, Inc. of Waters (Crawford-Otsego Landfill)

County: Crawford Location: Town T28N Range R8E Section(s) 4

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

Operating Status (check)	Waste Types Received (check all that apply)
<input checked="" type="checkbox"/> open	<input checked="" type="checkbox"/> residential
<u> </u> closed	<input checked="" type="checkbox"/> commercial
<input checked="" type="checkbox"/> licensed	<input checked="" type="checkbox"/> industrial
<u> </u> unlicensed	<input checked="" type="checkbox"/> construction & demolition
<input checked="" type="checkbox"/> construction permit	<input checked="" type="checkbox"/> contaminated soils
<u> </u> open, but closure pending	<input checked="" type="checkbox"/> special wastes *
	<u> </u> other: _____

* Explanation of special wastes, including a specific list and/or conditions:
not avail.

Site Size:

Total area of facility property:	<u>522.20</u>	acres
Total area sited for use:	<u>252.20</u>	acres
Total area permitted:	<u>79.07</u>	acres
Operating:	<u>9.7</u>	acres
Not excavated:	<u>64.87</u>	acres

Current capacity:	<u>8.2 million cy</u>	
Estimated lifetime:	<u>>20</u>	years
Estimated days open per year:	<u>313</u>	days
Estimated yearly disposal volume:	<u>320,000</u>	gate cubic yards

(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 Landfill

Facility Name: Harlan's Landfill

County: Manistee Location: Town T21N Range R16W Section(s) 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: _____

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:

paper mill sludge.

Site Size:

Total area of facility property: 160 acres
 Total area sited for use: 120 acres
 Total area permitted: 40 acres
 Operating: 40 acres
 Not excavated: 13 acres

Current capacity: 1,700,000
 Estimated lifetime: 14 years
 Estimated days open per year: 250 days
 Estimated yearly disposal volume: 200,000

(if applicable)

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

Facility Type: Type II Landfill

Facility Name: Montmorency-Oscoda Joint Sanitary Landfill
County: Montmorency Location: Town T29N Range R3E Section(s) 6

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: Montmorency and Oscoda County Public Authority

Operating Status (check)	Waste Types Received (check all that apply)
<input checked="" type="checkbox"/> <u>open</u>	<input checked="" type="checkbox"/> <u>residential</u>
<input type="checkbox"/> <u>closed</u>	<input checked="" type="checkbox"/> <u>commercial</u>
<input checked="" type="checkbox"/> <u>licensed</u>	<input checked="" type="checkbox"/> <u>industrial</u>
<input type="checkbox"/> <u>unlicensed</u>	<input checked="" type="checkbox"/> <u>construction & demolition</u>
<input checked="" type="checkbox"/> <u>construction permit</u>	<input type="checkbox"/> <u>contaminated soils</u>
<input type="checkbox"/> <u>open, but closure pending</u>	<input type="checkbox"/> <u>special wastes *</u>
	<input type="checkbox"/> <u>other: _____</u>

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

Site Size:

Total area of facility property:	<u>80</u>	acres
Total area sited for use:	<u>80</u>	acres
Total area permitted:	<u>80</u>	acres
Operating:	<u>3-4</u>	acres
Not excavated:	<u>37-40</u>	acres
Current capacity:	<u>3,500,000</u>	cubic yards
Estimated lifetime:	<u>30</u>	years
Estimated days open per year:	<u>310</u>	days
Estimated yearly disposal volume:	<u>145,000 cubic yards</u>	

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Elk Run Sanitary Landfill/Republic Services of Michigan

County: Presque Isle Location: Town T33N Range R2E Section(s) NE ¼ of 5

Map identifying location included in Attachment Section: Yes No

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

Public Private Owner: Republic

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

Size:

Total area of facility property: 120 acres
Total area sited for use: 42 acres
Total area permitted: 42 acres
Operating: 12 acres
Not excavated: 30 acres

Current capacity: 3,000,000 bank cubic yards
Estimated lifetime: >20 years
Estimated days open per year: 250 days
Estimated yearly disposal volume: 48,000 - 140,000 gate cubic yards

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type III Landfill

Facility Name: Southdown Cement Company Monofill

County: Charlevoix Location: Town T35N Range R8W Section(s) 33

Map identifying location included in Attachment Section: Yes X No

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

Public Private Owner: Southdown Cement

Operating Status (check)	Waste Types Received (check all that apply)
<input checked="" type="checkbox"/> open	<input type="checkbox"/> residential
<input type="checkbox"/> closed	<input type="checkbox"/> commercial
<input checked="" type="checkbox"/> licensed	<input type="checkbox"/> industrial
<input type="checkbox"/> unlicensed	<input type="checkbox"/> construction & demolition
<input type="checkbox"/> construction permit	<input type="checkbox"/> contaminated soils
<input type="checkbox"/> open, but closure pending	<input type="checkbox"/> special wastes *
	<input checked="" type="checkbox"/> other: <u>Cement kiln dust</u>

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

In process of permitting existing operation.

Site Size:

Total area of facility property:	<u>1,000</u>	acres
Total area sited for use:	<u>35</u>	acres
Total area permitted:	<u>35</u>	acres
Operating:	<u>12</u>	acres
Not excavated:	<u>23</u>	acres

Current capacity:	<u>1,200,000</u>	cubic yards
Estimated lifetime:	<u>>30</u>	years
Estimated days open per year:	<u>260</u>	days
Estimated yearly disposal volume:	<u><40,000</u>	tons

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Northern Oaks Recycling and Disposal Facility

County: Clare Location: Town T19N Range R4W Section(s) 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: _____

Public Private Owner: Waste Management 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: _____

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

Waste Treatment filter cake, sludge and asbestos

Site Size:

Total area of facility property: 320 acres
Total area sited for use: 76 acres
Total area permitted: 76 acres
Operating: 19 acres
Not excavated: 57 acres

Current capacity: 17,600,000 cubic yards
Estimated lifetime: 37 years
Estimated days open per year: 260 days
Estimated yearly disposal volume: 409,000 cubic yards

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Emmet County Transfer Station

County: Emmet Location: Town T35N Range R5W Section(s) 10

Map identifying location included in Attachment Section: Yes X No

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

 X Public Private Owner: Emmet County DPW

Operating Status (check)	Waste Types Received (check all that apply)
<u> X </u> open	<u> X </u> residential
<u> </u> closed	<u> X </u> commercial
<u> X </u> licensed	<u> X </u> industrial
<u> </u> unlicensed	<u> X </u> construction & demolition
<u> </u> construction permit	<u> </u> contaminated soils
<u> </u> open, but closure pending	<u> </u> special wastes *
	<u> </u> other:

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

Site Size:

Total area of facility property:	<u>40</u>	acres
Total area sited for use:	<u>10</u>	acres
Total area permitted:	<u>10</u>	acres
Operating:	<u> </u>	acres
Not excavated:	<u> </u>	acres

Current capacity:	<u> </u>	
Estimated lifetime:	<u> </u>	years
Estimated days open per year:	<u>300</u>	days
Estimated yearly disposal volume:	<u>67,000</u>	

(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 Landfill

Facility Name: Whitefeather Landfill/Republic Services of Michigan

County: Bay Location: Town 17N Range 4 E 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: _____

Public Private Owner: _____

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

Size:

Total area of facility property: 752 acres
Total area sited for use: 106 acres
Total area permitted: 56.5 acres
 Operating: 24.5 acres
 Not excavated: 32.0 acres

Current capacity: 4,175,153 cubic yards
Estimated lifetime: 18.8 years
Estimated days open per year: 260 days
Estimated yearly disposal volume: 380,000 gate cubic yards

(if applicable)

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

**II-3 SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION
INFRASTRUCTURE**

The following describes the solid waste collection services and transportation infrastructure that is used within the County to collect and transport solid waste.

Currently, all solid waste collection in the County is by private arrangements between waste haulers, and individual businesses and homeowners. Several communities conduct special cleanups. Each solid waste hauler uses a volume-based fee system (bags or tags). Some offer a flat rate for residential customers in addition to offering the bag or tag system for residential customers.

Yard waste is collected by municipal crews in Boyne City and Charlevoix.

TABLE II-7 Solid Waste Collection Services

Service Provider	Service Type	Service Area	Disposal Facility
Top Rank Disposal	Residential, Commercial, Industrial and construction materials	County-wide (mainland)	Glen's Landfill, Cedar Ridge Landfill, Elk Run Landfill and CES Landfill
Waste Management	Residential, Commercial, Industrial and construction materials	County-wide (mainland)	Cedar Ridge Landfill and CES Landfill
Walloon Lake Refuse Service	Residential, Commercial, Industrial and construction materials	Majority of mainland portion of the county.	Emmet County Transfer Station, Cedar Ridge Landfill and CES Landfill

TABLE II - 8 RECYCLING COLLECTION SERVICES

Service Provider	Service Type	Service Area	Recycling Facility
Beaver Island Recycling Center/Transfer Station	Recycling drop-off and processing	Beaver Island	Beaver Island
City of East Jordan Transfer Station	Recycling drop-off	East Jordan area	Varies over time, based upon service company.
Melrose Township Transfer Station	Recycling drop-off	Melrose Twp residents only	Varies over time, based upon service company.
Boyne Valley Township Transfer Station	Recycling drop-off	Boyne Valley Twp. residents only	Varies over time, based upon service company.

YARD WASTE SERVICES

Service Provider	Service Type	Service Area	Composting Facility
City of Charlevoix	Spring & Fall leaf pickup, on-going brush pickup.	City of Charlevoix	Charlevoix Compost Facility
Boyné City	Spring & Fall leaf collection, year around drop-off at compost yard.	Boyne City	Boyne City Compost facility
East Jordan	Spring & Fall leaf pickup, year around drop-off available at transfer station	East Jordan Transfer Station	East Jordan Transfer Station
Beaver Island	Year around drop-off of yard waste, trees, stumps, and compostibles.	Beaver Island	Beaver Island Transfer Station

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

Adequate quantities of landfill capacity exists in northern Michigan to accommodate the waste generated in Charlevoix County. The Cedar Ridge Landfill is short on space and in all likelihood will not continue to accept waste for more than a five-year time-period, even with major reductions in the quantity of waste accepted.

The county is well served by the three collection companies although none offer curbside recycling collection services at this time. This lack of curbside collection of recyclables and a shortage of recycling drop-off centers is resulting in a low level of recycling occurring in the county.

Given the short lifespan of the Cedar Ridge Landfill, the need exists for the development of one or more Type A Transfer Stations to reduce the hauling costs to more distant landfills.

Composting sites are being operated in each of the three cities, however, the areas outside of the incorporated municipalities are under served. The need exists to provide for composting opportunities for the townships in the county, through cooperative agreements with each other or with the cities.

DEMOGRAPHICS

POPULATION

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

Table II-10 below shows the permanent population of Charlevoix County projected through the planning period. Additional adjustments for seasonal population change were made using a multiplier for each jurisdiction ranging from 1.1 (January) to 1.36 (August). Adjusted population totals were multiplied by a per capita generation rate as shown in Section II-1.

Table II-10: Charlevoix County Population Projections

Municipality	1990 population	1998 Projected	2003 Projected	2008 Projected
Bay township	825	975	1070	1169
Boyne City	3478	3433	3370	3291
Boyne Falls village	369	457	518	583
Balance of Boyne Valley Township	733	867	954	1043
Chandler Township	182	215	236	258
Charlevoix City	3116	2975	2860	2736
Charlevoix Township	1016	1201	1320	1442
City of East Jordan	2240	2675	2957	3253
Evangeline Township	646	764	839	918
Eveline Township	1100	1302	1431	1565
Hayes Township	1317	1558	1712	1872
Hudson Township	481	566	620	675
Marion Township	1130	1337	1469	1606
Melrose Township	1106	1308	1437	1570
Norwood Township	516	608	668	728
Peaine Township	128	152	168	184
St. James Township	276	325	357	389
South Arm Township	1418	1658	1809	1964
Wilson Township	1391	1643	1805	1972
Charlevoix County Total	21468	24020	25600	27220

Centers of waste generation are the cities of Boyne City, Charlevoix and East Jordan. This is based upon them being the population centers, as well as the commercial and manufacturing centers of the county.

LAND DEVELOPMENT

The following describes current and projected land development patterns, as related to the Selected Solid Waste Management System, for the next five and ten year periods.

The population centers in the county have historically been located in the three cities of Boyne City, Charlevoix, and East Jordan on the mainland and in the "village" of St. James on Beaver Island. The vast majority of commercial and industrial activities are located within the municipal boundaries, as well.

Traditionally, much of the seasonal and resort development has occurred along the many miles of waterfront, which is located outside of the municipal boundaries. Over the past 10-15 years, the majority of the permanent year around county population has shifted from residing within the city limits to the townships. The focal point for this suburbanizing population continues to be the three cities, and the "village" of St James, and thus, solid waste services, including recycling and composting, are best located either within or in close proximity to these communities. This will be the case for both the five and ten year planning periods.

SOLID WASTE MANAGEMENT ALTERNATIVES

The following Solid Waste Management alternatives were discussed by the Solid Waste Committee. These discussions focused on the feasibility, practical ability or the economic viability of being put into effect in Charlevoix County. Details regarding the selected alternatives are located in the following section. Details regarding each non-selected alternative are located in Appendix B. The criteria used are as follows:

- Technical Feasibility
- Economic Feasibility
- Land Access
- Transportation Access
- Energy Savings or Consumption
- Environmental Inputs
- Public Acceptability

Solid Waste Collection.

Curbside Collection

- Flat Rate
- Volume Based Pricing (pay as you throw)

Methods of Contracting

- Individual Contract
- Franchised Collection Areas

Self-haul to Landfills or Transfer Station

"Spring Clean-up Program"

Curbside collection and self-hauling of solid waste are technically feasible. For some waste generators, the feasibility of hauling their own waste is a financially viable alternative. This is the case for very large commercial and industrial generators, as well as for those that generate small amounts of easy to handle waste. Those that generate large quantities of waste may find it feasible and cost effective to acquire their own hauling equipment. Homes and businesses that generate modest quantities of waste will find that hauling their own waste would present economic burdens. Neither land access nor transportation access are an issue in the self-haul vs. curbside collection of solid waste.

curbside collection of solid waste tends to result in reduced energy consumption as opposed to self-hauling of solid waste. Franchising of waste collection areas can further reduce energy consumption due to only one collection truck on the street. Franchising is not economically viable over time given the small quantities of waste generated in Charlevoix County. In areas with substantially greater volume of waste, it is possible to franchise out portions of the county to different hauling companies which results in continuous competition over time, as opposed to franchising reducing the number of haulers in the county to one firm.

A "pay by the bag" system tends to encourage a reduction in the amount of waste generated which has positive environmental impacts and is generally well accepted by the public. The "pay as you throw" system does result in some persons illegally disposing of their waste on property belonging to others which results in negative environmental and aesthetic impacts upon the county. It also results in costs of collection and disposal being shifted to other persons on the general public. From the standpoint of public acceptability, the ability to have a choice of service providers or to haul ones' own waste is highly valued by waste generators.

"Spring Clean-up Programs" have been expanded over time throughout the county, as a service desired by the residents. While this service is costly to the communities, it does provide an opportunity *for people to get* rid of major items from their homes. It also provides an opportunity for product reuse through scavenging of items prior to the materials being collected and transported to a disposal site.

Recycling and Composting

Recycling has a high degree of public acceptability and support, as was evidenced by the recently conducted recycling survey. Recycling is both technically feasible, as well as presenting the opportunity to conserve energy. Recycling of materials is economically feasible in many but not all instances. This is dependent upon the types and quantity of materials involved, as well as distances to markets and the supply of the raw materials.

Composting of yard and food wastes is one of the most technically feasible and least costly methods of disposing of these materials. Individual compost piles at each home are one method of composting. Community compost programs for those that do not wish to compost their own materials has a high public acceptability rating, and is relatively inexpensive for a community to operate. In addition to its low cost, the resulting compost material can be either given away or sold.

Access to land for the location of a compost site is not difficult to come by, and provided the site is operated properly, public acceptability is very high.

Volume Reduction

Volume reduction generally results from shredding and/or baling of solid waste. While technically feasible, given the large amount of landfill capacity in Northern Michigan and the disposal costs at the landfills, we do not expect this to occur to any significant extent. Some situations may be appropriate for shredding or baling, such as construction and demolition work, where the wastes do not fit well into typical waste containers. In cases such as these, a tub grinder to reduce the waste to manageable sizes for transportation *can* be cost effective.

Waste that is hauled long distance or which have high transportation costs, such as wastes needing shipment off of Beaver Island, can benefit from baling. No measurable impacts in the areas of land access, energy savings, environmental issues or public acceptability result from decisions to use or not use shredding or baling.

Transfer Stations

Transfer Stations are a portion of both the transportation and collection components of the solid waste system. Transfer Stations are proven cost effective methods of aggregating solid waste from "low population" areas or where the waste needs to be transported "long distances" to disposal sites. "Long distances" and "low population" are terms that vary dependent upon the economics of each Transfer Station or waste transportation company.

Transfer Stations are classified by the volume of waste they handle daily, the types of equipment located at the site and whether they are capable of accepting waste from mechanically unloaded vehicles. Often times, Transfer Stations feature compaction equipment which aids in volume reduction and reduces transportation costs, thus saving energy.

Transfer Stations generally are located either in industrial or warehousing districts or in rural areas so access to land is not a concern, nor is public acceptability. In addition, many Transfer Stations, which serve the general public, also include recycling drop-off bins.

Waste Incinerators

Waste incinerators recover energy from the solid waste, as well as having the ability to reduce the volume of waste that needs to be disposed of at landfills. Incinerators due to air emission problems are very expensive to operate and suffer from low acceptability by the public.

Without commitments for the purchase of the energy generated by the incinerators, they are not economically feasible to operate. They also need a steady supply of waste while historical evidence has shown the generation of waste in Northern Michigan varies substantially from season to season. High costs of disposing of the resulting ash further reduce the economic viability of these types of operations.

Landfills

Landfills are proven to be technically feasible as well as economically feasible to operate provided sufficient volumes of waste exist, allowing them to generate sufficient revenues. Access to land can be a problem, as can the public acceptability. Energy consumption is high compared to recycling and composting. Energy can be recovered in the form of methane gas. Environmental risks include the uncontrolled movement of methane gas and both ground and surface water contamination. Given the fact that large volumes of waste are needed to support landfills, good transportation routes are necessary to enable waste to reach the landfills.

The above listed components of the solid waste management system were arranged into systems A – F taking into account a number of strategies, which could potentially meet the solid waste needs of Charlevoix County. The County staff and SWPC reviewed management program strategies in the following eight areas:

- Clean Community
- Drop-off Residential Recycling
- Residential Yard Waste Composting
- Material Transfer and Processing
- Recycling Incentives
- Curbside Residential Recycling
- Commercial Recycling
- Disposal

The following six system complete systems resulted:

- A: Basic Waste Collection and Disposal Program
- B: Level 1 Basic Clean Community and Drop-off Recycling Program
- C: Level 2 Expanded Clean Community and Drop-off Recycling Program
- D: Level 3 Expanded Clean Community and Curbside Recycling Program
- E: Level 4 Expanded Clean Community and Comprehensive Recycling Program
- F: Level 5 Advanced Recovery Systems

At this stage in the selection process, some systems were discarded as unsuitable for the county based on discussion and evaluation of each approach and its ability to

- Build on the strengths of the local and regional situation,
- Address current deficiencies and weaknesses,
- Work with organizational approaches that the County is willing to consider,

- Be fundable through systems that the County can implement,
- Respond to and build community involvement and support,
- Be enforceable, and
- Set measurable goals that can be tracked to determine progress.

As part of this process, the overall plan goals and objectives were considered as were other sources of planning data described in the balance of this Section. The process also included surveying of the views of those involved in the planning process and surveying of others considered to be critical to implementation of the plan - primarily local government officials.

The following two system alternatives and their program elements were considered to be achievable, and thus were evaluated for Charlevoix County:

CHARLEVOIX COUNTY SYSTEM ALTERNATIVE 1:

Expanded Clean Community & Drop-off Recycling Program is adapted from System Option C. **Key features include a** Clean Community program that operates at highly effective levels. Incentives to recycle boost program performance, increasing tons and lowering unit costs. Expanded recycling drop-off capabilities are made available throughout the County at permanent sites open for longer periods of time each week. Arrangements are made for processing of recyclables that allows complete or partial commingling of paper products (commingled fibers) and complete or partial commingling of containers (commingled containers), increasing the types of materials that can be recovered and further increasing overall convenience. Direct haul of collected solid waste to regional landfills would remain, as the standard practice, with the provision for waste collection companies to construct Type A or B transfer stations to improve their operations as the economics of their business dictates.

CHARLEVOIX COUNTY SYSTEM ALTERNATIVE 2:

Expanded Clean Community and Curbside Recycling Program is adapted from System Option D. **Key features include a** Clean Community program that operates at highly effective levels. Incentives to recycle boost program performance, increasing tons and lowering unit costs. Expanded recycling drop-off capabilities at one or more flagship sites increase options for recovering more materials. Curbside programs for cities, villages and towns are developed to increase convenience for large sectors of the population. Arrangements for commingled recycling processing capabilities as well as commercial recycling services are further developed to increase diversion. C&D recovery services are more closely coordinated with area service providers. Organic management options exist throughout year with addition of drop-offs for yard waste generated in the County. Transfer trailer hauling of collected solid waste to regional landfills would become the standard practice. A network of drop-off sites for solid waste would be available including a flagship site that took other types of waste (bulky, C&D, etc.) with this system preferably located at same sites as recycling drop-offs. The County collaborates with nearby counties on a ban on certain materials being landfilled targeted for 5 years away and coordinated between the regional disposal facilities.

SELECTED SOLID WASTE

MANAGEMENT SYSTEM

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

The County has selected a system alternative that is a combination of Alternative 1 and Alternative 2, modified to tailor the program specifics to the County's needs and phased in to allow system development to take place for the complete 10 year planning period.

During Years 1 through 5 of the Planning Period, the County will implement System Alternative 1 as follows:

CHARLEVOIX COUNTY SYSTEM ALTERNATIVE 1:

Expanded Clean Community & Drop-off Recycling Program is adapted from System Option C, Key **features include** a Clean Community program that operates at highly effective levels. Incentives to recycle boost program performance, increasing tons and lowering unit costs. Expanded recycling drop-off capabilities are made available throughout the County at permanent sites open for longer periods of time each week. Arrangements are made for processing of recyclables that allows complete or partial commingling of paper products (commingled fibers) and complete or partial commingling of containers (commingled containers), increasing the types of materials that can be recovered and further increasing overall convenience. A ban on certain materials being landfilled is evaluated and considered for a target period five-years away should specific diversion levels not be reached. This is coordinated between the landfill and area transfer stations. Direct haul of collected solid waste to regional landfills would remain as the standard practice, supplemented by the addition and use of Type A Transfer Stations, as need and economics dictate.

Following is a more detailed description of the program elements that are part of this first phase of the Selected Alternative:

**Charlevoix County Selected System Alternative Phase I
Detailed System Component Descriptions**

Clean Community:

Comprehensive solid waste collection services would be made available to all households and businesses in the County. Illegal dumping and litter would be policed with enforcement of violations. Spring/fall cleanup days would be provided in more urban areas with scavenging/trading/reuse encouraged and recycling of as many materials left as possible. Household hazardous waste collection services would be provided and expanded to include collection of small quantities of agricultural pesticides and herbicides. Adopt a "____" programs would be organized with volunteers and business/service group sponsorship for periodic cleaning of roadsides, stream banks, lakeshores, parks and forests.

Recycling Incentives:

Proactive education and promotion strategies would encourage responsible solid waste management and strong reduce/reuse/recycle behavior. Pay As You Throw (PAYT) programs would be heavily promoted throughout the County. Recycling drop-offs would add more materials to encourage overall participation in program by more citizens and businesses. High visibility promotion and education programs would be in place. A ban on landfill disposal for certain items would be evaluated and targeted for a period five years away should specified levels of diversion not be reached. This will provide a further incentive for increased adoption and participation in recovery programs.

drop-off Residential Recycling:

A permanent network of drop-off sites for recycling would be located in the County, open at convenient hours most days of the week. Material would be collected in a partially commingled form to make use of the facilities easier. A consistent range of recyclable materials would be collected at each of the drop-off sites. Existing drop-offs in East Jordan, Beaver Island, Melrose Township, Boyne Valley and the Cedar Ridge Landfill would be improved/expanded and additional sites added in three locations, possibly Boyne City, City of Charlevoix, the State Park, and/or Hays or Bay Township. Materials at a minimum would include paper corrugated cardboard, glass, steel cans and #2 HDPE.

Curbside Residential Recycling:

Commercial waste collection companies would be encouraged to provide subscription curbside recycling for residents that were willing to make their own arrangements for the service with area haulers. Note, however, that a critical mass of participants are needed to make collection economically viable.

Residential Yard Waste Composting:

Leaf collection would be provided in all cities, and the village of Boyne Falls. Backyard composting would be encouraged through distribution of backyard bins at discount rates. At least one and possibly more permanent drop-off options for yard waste would be provided throughout the County.

Charlevoix, Boyne City, and East Jordan would continue current collection programs, with expansion of collection at the curb in some townships. Other municipalities including Boyne Falls would be added. At least three permanent drop-off sites would be established in conjunction with recycling drop-off to accept seasonal yard waste.

Commercial Recycling:

Businesses would be encouraged to use the drop-off recycling network for smaller volumes of paper, corrugated cardboard and containers. Arrangements would be made for larger volumes to be delivered to a site capable of handling compacted or loose loads of commercial recyclables. Businesses would be encouraged to contract with their hauler for collection of cardboard and other high volume recyclable materials.

Material Transfer and Processing:

Arrangements would be made to provide access to a material recovery facility (MRF) to service all recycling collectors in the system. These arrangements would include guarantees that sufficient capacity was available to

meet the County's needs over the long term and that the facility would be able to process commingled containers and commingled fibers as well as presorted recyclables like OCC.

Currently, Emmet County DPW and Waste Management Facilities in the Traverse City area offer the best options for processing. Note that Emmet does not yet handle commingled containers.

Disposal:

Existing landfills in the region would be used with direct haul by compacting collection vehicles being the primary method of transportation to the landfills at such time as the Cedar Ridge Recycling and Disposal Facility ceases to accept waste, the primary method of transport would be by trailers, loaded at transfer stations owned by the public and/or private sector, including Charlevoix County, Top Rank Disposal, Waste Management, and other companies that might desire to offer that service. The existing network of transfer facilities for solid waste drop-off would be available, including Boyne Valley Township, Melrose Township, East Jordan, Top Rank and Beaver Island.

During Years 6 through 10 of the Planning Period the County will phase in System Alternative 2 as follows:

CHARLEVOIX COUNTY SYSTEM ALTERNATIVE 2:

Expanded Clean Community and Curbside Recycling Program is adapted from System Option D. Key features include a Clean Community program that operates at highly effective levels. Incentives to recycle boost program performance, increasing tons and lowering unit costs. Expanded recycling drop-off capabilities at one or more flagship sites increase options for recovering more materials. Curbside programs for cities, villages and towns are developed to increase convenience for large sectors of the population. Arrangements for commingled recycling processing capabilities, as well as commercially recycling services are further developed to increase diversion. C&D recovery services are more closely coordinated with area service providers. Organic management options exist throughout year with addition of drop-offs for yard waste generated in the County. Use of transfer stations as opposed to direct haul of collected solid waste to regional landfills would be expected to be the standard practice. A network of drop-off sites for solid waste would be available, including a flagship site that took other types of waste (bulky, C&D, etc.) with this system preferably located at same sites as recycling drop-offs. The County collaborates with nearby counties on a ban on certain materials being landfilled targeted for 5 years away, and coordinated between the regional disposal facilities.

Following is a more detailed description of the program elements that are part of this second phase of the Selected Alternative.

**Charlevoix County Selected System Alternative Phase II
Detailed System Component Descriptions**

Clean Community:

Comprehensive solid waste collection services would be made available to all households and businesses in the County. Illegal dumping and litter would be policed with enforcement of violations. Spring/fall cleanup days would be provided in more urban areas with scavenging/trading/reuse encouraged and recycling of as many materials left as possible. Household hazardous waste collection services would be provided and expanded to include collection of small quantities of agricultural pesticides and herbicides -- all coordinated from a single permanent drop-off site. Adopt a "_____ " programs would be organized with volunteers and business/service group sponsorship for periodic cleaning of roadsides, streambanks, lakeshores, parks and forests.

Recycling Incentives:

Proactive education and promotion strategies would encourage responsible solid waste management and strong reduce/reuse/recycle behavior. Pay As You Throw (PAYT) programs would be widespread and aggressively promoted throughout the County. Recycling collection programs as well as drop-offs would add more materials to encourage overall participation in program by more citizens and businesses. Selected materials (e.g. OCC) would be considered for a disposal ban targeted for the end of year 5 should specified levels of diversion not be achieved.

Drop-off Residential Recycling:

A permanent network of six drop-off sites for recycling would be located in the County, open at convenient hours most days of the week. Material would be collected in a partially commingled form to make use of the facilities easier (provided a processing option can be secured). Two additional "flagship" drop-off sites would be larger than the rest, be staffed, have an educational component, and collect the largest number of different types of materials, such as boxboard, textiles, scrap metal, milk cartons and other materials. (See 1-5 year planning period for description of sites.)

Curbside Residential Recycling:

Curbside recycling would be provided to all residents in a designated curbside service district that included most of the cities of Charlevoix, Boyne City, and East Jordan, as well as other densely populated areas. Subscription service outside this district would be strongly encouraged.

Residential Yard Waste Composting:

Leaf collection would be provided in all cities, and the Village of Boyne Falls. Backyard composting would be encouraged through distribution of backyard bins at discount rates. A similar mulching mower program would encourage grass cycling. Permanent drop-off options for yard waste would be provided throughout the County with at least one "flagship" site taking all types of yard waste and providing finished compost for distribution to residents. At least one compost processing operation is recommended, including some equipment capable of turning and mixing materials; an alternative strategy could be working with a local farmer to develop a land application program.

Commercial Recycling:

A permanent site would be provided for businesses to drop-off a wide variety of recyclables including commingled containers and commingled paper. A business recycling service district would be established and businesses within the district assisted with contracting for recycling collection services provided by licensed haulers/service providers.

Material Transfer and Processing:

A material recovery facility (MRF) would be made available to all recycling collectors in the system. Ideally, the facility would be able to process commingled containers and commingled fibers as well as presorted recyclables like OCC. Commercial recyclables would be able to be tipped at the facility for a reasonable fee that was lower than the tipping fee at area landfills. Some capability would be provided to remove contaminants and small quantities of solid waste from loads of recyclables. Transfer to the Emmet County, or Waste Management MRF's in Emmet County or Traverse City, may remain the most viable option, however, a small, "mini" MRF could be considered for the County.

Disposal:

Existing landfills in the region would be used with wastes being aggregated into larger, denser loads at transfer stations. Some direct haul to landfills by compacting collection vehicles being the primary method of transportation to the landfills. A network of drop-off facilities for solid waste would be available including a "flagship" site that took other types of waste (bulky, C&D, etc.) with this system preferably located at same sites as recycling drop-offs. A waste transfer facility would be planned should direct haul options for landfilling no longer be available or be cost prohibitive.

RESTRICTED SYSTEM

IMPORT AUTHORIZATION

If a licensed solid waste disposal area is currently operating within the County, disposal of solid waste generated by the exporting county is permitted by Charlevoix County up to the authorized quantity according to the conditions contained in Tables 1-A-1 through 1-A-3.

Table 1-A-1: CURRENT IMPORT VOLUME AUTHORIZATION OF SOLID WASTE TO TYPE II LANDFILLS

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME1	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS2
Charl.	Antrim	Cedar Ridge	50%	50%	P O
	Crawford	Cedar Ridge	100%	100%	P O
	Pres.Isle	Cedar Ridge	100%	100%	P O
	Emmet	Cedar Ridge	100%	100%	P O Z
	Montmor.	Cedar Ridge	100%	100%	C O
	Oscoda	Cedar Ridge	100%	100%	C O
	Leelanau	Cedar Ridge	100%	100%	P O
	Manistee	Cedar Ridge	100%	100%	C O

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

Authorization indicated by P = Primary Disposal; C = Contingency Disposal; O = Other conditions must be met. The reasons for Contingency Disposal and Other Conditions are detailed below.

C. The counties authorized as contingency counties above shall have the ability to use disposal facilities in Charlevoix County should all Type II disposal facilities in that county close or otherwise be unavailable for use by the general public.

O. Conditions may include, but not be limited to a requirement to document recycling activities in the export county, ban the landfilling of specified materials, enforce the provisions of the solid waste plan, abide by the Charlevoix County Solid Waste Ordinance at such time as one exists.

Z. Provided the waste first travels through the Emmet County Transfer Station.

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Table 1-A-2: CURRENT IMPORT VOLUME AUTHORIZATION OF SOLID WASTE TO TYPE III LANDFILLS

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME1 DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED QUANTITY/	AUTHORIZED CONDITIONS2
Charl.	NONE				

ONE TYPE III LANDFILL CURRENTLY EXISTS IN CHARLEVOIX COUNTY AT THIS TIME. THIS FACILITY IS DESIGNED AND OPERATED AS A MONOFILL FOR THE EXCLUSIVE USE OF THE SOUTHDOWN CEMENT COMPANY. NO WASTE MAY BE DISPOSED OF IN THIS FACILITY OTHER THAN SOUTHDOWN'S WASTES.

1. Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.
2. Authorization indicated by P = Primary Disposal; C = Contingency Disposal; O = Other conditions must be met. The reasons for Contingency Disposal and Other Conditions are detailed below.

Table 1-A-3: CURRENT IMPORT VOLUME AUTHORIZATION OF SOLID WASTE TO TRANSFER STATIONS

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME1	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS2
Charl.	Antrim	ANY TYPE B	100%	100%	P O Z
	Crawford	ANY TYPE B	100%	100%	P O Z
	Otsego	ANY TYPE B	100%	100%	P O Z
	Leelanau	ANY TYPE B	100%	100%	P O Z
	Pres. Isle	ANY TYPE B	100%	100%	P O Z
	Emmet	ANY TYPE B	100%	100%	P O Z
	Manistee	ANY TYPE B	100%	100%	C O Z
	Montmor.	ANY TYPE B	100%	100%	C O Z
	Oscoda	ANY TYPE B	100%	100%	C O Z

1. Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.
2. Authorization indicated by P = Primary Disposal; C = Contingency Disposal; O = Other conditions must be met. The reasons for Contingency Disposal and Other Conditions are detailed below.
 - C. The counties authorized as contingency counties above shall have the ability to use transfer facilities in Charlevoix County should all Type II disposal facilities in that county close or otherwise be unavailable for use by the general public.
 - O. Conditions may include, but not be limited to a requirement to document recycling activities in the export county, ban the landfilling of specified materials, enforce the provisions of the solid waste plan, abide by the Charlevoix County Solid Waste Ordinance at such time as one exists.
 - Z. All waste disposed of at Type B Transfer Stations must be manually loaded into the containers at the Transfer Station as of January 1, 2003, or within twelve (12) months after the approval of this plan by the State of Michigan, which ever comes later.

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SELECTED SYSTEM

If a new Type II solid waste disposal area is constructed and operating in the future in the County, then disposal of solid waste generated by the exporting county is authorized by the importing county up to the authorized quantity according to the authorized conditions in Table 1-B-1 THROUGH 1-B-4.

Table 1-B-1: FUTURE IMPORT VOLUME AUTHORIZATION OF SOLID WASTE TO TYPE II LANDFILLS

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME1	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS2
Charl.	Antrim	Charlevoix County Owned Type II Disposal Facility.	*	*	p*
	Emmet	"	*	*	p* O
	Otsego	"	*	*	p*
	Cheboygan	"	*	*	p*
	Crawford	"	*	*	p*
	Presque Isle	"	*	*	p*
	Leelanau	"	*	*	p*
	Manistee	"	*	*	p*
	Montmorency	"	*	*	c*
	Oscoda	"	*	*	c*

THIS PLAN PROVIDES FOR A CHARLEVOIX COUNTY OWNED AND OPERATED LANDFILL WITHIN THE COUNTY.

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

Authorization indicated by P = Primary Disposal; C = Contingency Disposal; O = Other conditions exist and detailed explanation is included below:

- O. Provided the waste first travels through the Emmet County Transfer Station.

* Conditions and quantities shall be negotiated between landfill owner and respective companies utilizing the facility.

Table 1-B-2: FUTURE IMPORT VOLUME AUTHORIZATION OF SOLID WASTE TO TYPE III LANDFILLS



IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME1	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS2
Charl.	All counties in Michigan.	Charlevoix County Type III Landfill	*	*	P O*

WASTE DISPOSED OF IN TYPE III LANDFILLS IN CHARLEVOIX COUNTY SHALL BE GENERATED OR OTHERWISE CREATED IN CHARLEVOIX COUNTY.

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

Authorization indicated by P = Primary Disposal; C = Contingency Disposal; O = Other conditions exist and detailed explanation is included below:

- Conditions and quantities of waste shall be negotiated between the landfill owner and respective companies utilizing the facility.

Waste disposed of in monofills located in Charlevoix County, shall be generated in Charlevoix County by the company which owns the monofill.

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Table 1-B-3: FUTURE IMPORT VOLUME AUTHORIZATION OF SOLID WASTE TO TYPE A TRANSFER STATIONS

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME1	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS2
Charl.	Antrim	ANY TYPE A	100%	100%	P O
	Crawford	ANY TYPE A	100%	100%	P O
	Otsego	ANY TYPE A	100%	100%	P O
	Leelanau	ANY TYPE A	100%	100%	P O
	Emmet	ANY TYPE A	100%	100%	C O Z
	Kalkaska	ANY TYPE A	100%	100%	P O
	Manistee	ANY TYPE A	100%	100%	P O
	Pres Isle	ANY TYPE A	100%	100%	P O
	Montmor.	ANY TYPE A	100%	100%	C O
	Oscoda	ANY TYPE A	100%	100%	C O

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

Authorization indicated by P = Primary Disposal; C = Contingency Disposal; O = Other conditions must be met. The reasons for Contingency Disposal and Other Conditions are detailed below.

- C. The counties authorized as contingency counties above shall have the ability to use transfer facilities in Charlevoix County should all Type II disposal facilities in that county close or otherwise be unavailable for use by the general public.
- O. Waste brought into Transfer Stations in Charlevoix County from counties other than Charlevoix County shall be reported to the Charlevoix County Planning Department on a monthly basis, by the Transfer Station Operator. This report shall consist of the number of trucks per day, the capacity of the truck, and location of waste origin.
- Z. Type II Waste collected in Emmet County shall be routed through the Emmet County Transfer Station and shall only be brought to Transfer Stations in Charlevoix County in the event of mechanical difficulties at the Emmet County Transfer Station, which renders them unable to accept waste. This shall only occur after the Emmet County DPW has notified the Charlevoix County Planning Department to inform them of this inability to accept waste at their facility. Type II waste collected in Montmorency and Oscoda Counties shall be disposed of in the Montmorency/Oscoda Landfill, unless that facility is unable to accept the waste, and the Landfill Authority so notifies Charlevoix County Planning Department.

le 1-B-4: FUTURE IMPORT VOLUME AUTHORIZATION OF SOLID WASTE TO TYPE B TRANSFER STATIONS

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME1	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS2
Charl.	Antrim	ANY TYPE B	100%	100%	P O
	Crawford	ANY TYPE B	100%	100%	P O
	Otsego	ANY TYPE B	100%	100%	P O
	Leelanau	ANY TYPE B	100%	100%	P O
	Pres Isle	ANY TYPE B	100%	100%	P O
	Emmet	ANY TYPE B	100%	100%	C O
	Manistee	ANY TYPE B	100%	100%	P O
	Montmor.	ANY TYPE B	100%	100%	C O
	Oscoda	ANY TYPE B	100%	100%	C O

1. Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.
2. Authorization indicated by P = Primary Disposal; C = Contingency Disposal; O = Other conditions must be met. The reasons for Contingency Disposal and Other Conditions are detailed below.
 - C. The counties authorized as contingency counties above shall have the ability to use transfer facilities in Charlevoix County should all Type II disposal facilities in that county close or otherwise be unavailable for use by the general public.
 - O. Any Transfer Station that accepts waste from a mechanically unloaded vehicle after January 1, 2003 shall be licensed as a Type A Transfer Station.

SELECTED SYSTEM

EXPORT AUTHORIZATION

If a licensed solid waste disposal area is currently operating within another County, disposal of solid waste generated by the exporting county is authorized up to the authorized quantity according to the conditions authorized in Table 2-A if authorized for import in the approved Solid Waste Management Plan of the receiving County.

Table 2-A: CURRENT EXPORT VOLUME AUTHORIZATION OF SOLID WASTE

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME1	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS2
Crawford	Charl.	NA	100%	100%	P
Pres. Isle	Charl.	NA	100%	100%	P
Montmor.	Charl.	NA	100%	100%	P
Leelanau	Charl.	NA	100%	100%	P
Manistee	Charl.	NA	100%	100%	P
Clare	Charl.	NA	100%	100%	P
Chippewa	Charl.	NA	100%	100%	P
Wexford	Charl.	NA	100%	100%	P
Emmet	Charl.	NA	100%	100%	P
Alcona	Charl.	NA	100%	100%	P
Alger	Charl.	NA	100%	100%	P
Allegan	Charl.	NA	100%	100%	P
Alpena	Charl.	NA	100%	100%	P
Antrim	Charl.	NA	100%	100%	P
Arenac	Charl.	NA	100%	100%	P
Baraga	Charl.	NA	100%	100%	P
Barry	Charl.	NA	100%	100%	P
Bay	Charl.	NA	100%	100%	P
Benzie	Charl.	NA	100%	100%	P
Berrien	Charl.	NA	100%	100%	P
Branch	Charl.	NA	100%	100%	P
Calhoun	Charl.	NA	100%	100%	P
Cass	Charl.	NA	100%	100%	P
Cheboygan	Charl.	NA	100%	100%	P
Clinton	Charl.	NA	100%	100%	P
Delta	Charl.	NA	100%	100%	P
Dickinson	Charl.	NA	100%	100%	P
Eaton	Charl.	NA	100%	100%	P
Genesee	Charl.	NA	100%	100%	P
Gladwin	Charl.	NA	100%	100%	P
Gogebic	Charl.	NA	100%	100%	P
Gd. Trav.	Charl.	NA	100%	100%	P
Gratiot	Charl.	NA	100%	100%	P
Hillsdale	Charl.	NA	100%	100%	P
Houghton	Charl.	NA	100%	100%	P
Huron	Charl.	NA	100%	100%	P
Ingham	Charl.	NA	100%	100%	P
Ionia	Charl.	NA	100%	100%	P
Iosco	Charl.	NA	100%	100%	P

Iron	Charl.	NA	100%	100%	P
Isabella	Charl.	NA	100%	100%	P
Jackson	Charl.	NA	100%	100%	P
Kalamazoo	Charl.	NA	100%	100%	P
Kalkaska	Charl.	NA	100%	100%	P
Kent	Charl.	NA	100%	100%	P
Keweenaw	Charl.	NA	100%	100%	P
Lake	Charl.	NA	100%	100%	P
Lapeer	Charl.	NA	100%	100%	P
Lenawee	Charl.	NA	100%	100%	P
Livingst.	Charl.	NA	100%	100%	P
Luce	Charl.	NA	100%	100%	P
Mackinac	Charl.	NA	100%	100%	P
Macomb	Charl.	NA	100%	100%	P
Marquette	Charl.	NA	100%	100%	P
Mason	Charl.	NA	100%	100%	P
Mecosta	Charl.	NA	100%	100%	P
Menominee	Charl.	NA	100%	100%	P
Midland	Charl.	NA	100%	100%	P
Missaukee	Charl.	NA	100%	100%	P
Monroe	Charl.	NA	100%	100%	P
Montcalm	Charl.	NA	100%	100%	P
Muskegon	Charl.	NA	100%	100%	P
Newaygo	Charl.	NA	100%	100%	P
Oakland	Charl.	NA	100%	100%	P
Oceana	Charl.	NA	100%	100%	P
Ogemaw	Charl.	NA	100%	100%	P
Ontonagon	Charl.	NA	100%	100%	P
Osceola	Charl.	NA	100%	100%	P
Oscoda	Charl.	NA	100%	100%	P
Otsego	Charl.	NA	100%	100%	P
Ottawa	Charl.	NA	100%	100%	P
Roscommon	Charl.	NA	100%	100%	P
Saginaw	Charl.	NA	100%	100%	P
St. Clair	Charl.	NA	100%	100%	P
St. Joseph	Charl.	NA	100%	100%	P
Sanilac	Charl.	NA	100%	100%	P
Schoolcra	Charl.	NA	100%	100%	P
Shiawas.	Charl.	NA	100%	100%	P
Tuscola	Charl.	NA	100%	100%	P
Van Buren	Charl.	NA	100%	100%	P
Washtenaw	Charl.	NA	100%	100%	P
Wayne	Charl.	NA	100%	100%	P

1. Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.
2. Authorization indicated by P = Primary Disposal; C = Contingency Disposal; O = Other conditions must be met. The reasons for Contingency Disposal and Other Conditions are detailed below.

SELECTED SYSTEM

If a new solid waste disposal area is constructed and operates in the future in another County, then disposal of solid waste generated by the EXPORTING COUNTY is authorized up to the AUTHORIZED QUANTITY according to the AUTHORIZED CONDITIONS in Table 2-B if authorized for import in the approved Solid Waste Management Plan of the receiving County.

Table 2-B: FUTURE EXPORT VOLUME AUTHORIZATION OF SOLID WASTE

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME1	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS2
Crawford	Charl.	NA	100%	100%	P
Pres. Isle	Charl.	NA	100%	100%	P
Montmor.	Charl.	NA	100%	100%	P
Leelanau	Charl.	NA	100%	100%	P
Manistee	Charl.	NA	100%	100%	P
Clare	Charl.	NA	100%	100%	P
Chippewa	Charl.	NA	100%	100%	P
Wexford	Charl.	NA	100%	100%	P
Emmet	Charl.	NA	100%	100%	P
Alcona	Charl.	NA	100%	100%	P
Alger	Charl.	NA	100%	100%	P
Allegan	Charl.	NA	100%	100%	P
Alpena	Charl.	NA	100%	100%	P
Antrim	Charl.	NA	100%	100%	P
Arenac	Charl.	NA	100%	100%	P
Baraga	Charl.	NA	100%	100%	P
Barry	Charl.	NA	100%	100%	P
Bay	Charl.	NA	100%	100%	P
Benzie	Charl.	NA	100%	100%	P
Berrien	Charl.	NA	100%	100%	P
Branch	Charl.	NA	100%	100%	P
Calhoun	Charl.	NA	100%	100%	P
Cass	Charl.	NA	100%	100%	P
Cheboygan	Charl.	NA	100%	100%	P
Clinton	Charl.	NA	100%	100%	P
Delta	Charl.	NA	100%	100%	P
Dickinson	Charl.	NA	100%	100%	P
Eaton	Charl.	NA	100%	100%	P
Genesee	Charl.	NA	100%	100%	P
Gladwin	Charl.	NA	100%	100%	P
Gogebic	Charl.	NA	100%	100%	P
Gd. Trav.	Charl.	NA	100%	100%	P
Gratiot	Charl.	NA	100%	100%	P
Hillsdale	Charl.	NA	100%	100%	P
Houghton	Charl.	NA	100%	100%	P
Huron	Charl.	NA	100%	100%	P
Ingham	Charl.	NA	100%	100%	P
Ionia	Charl.	NA	100%	100%	P
Iosco	Charl.	NA	100%	100%	P

Iron	Charl.	NA	100%	100%	P
Isabella	Charl.	NA	100%	100%	P
Jackson	Charl.	NA	100%	100%	P
Kalamazoo	Charl.	NA	100%	100%	P
Kalkaska	Charl.	NA	100%	100%	P
Kent	Charl.	NA	100%	100%	P
Keweenaw	Charl.	NA	100%	100%	P
Lake	Charl.	NA	100%	100%	P
Lapeer	Charl.	NA	100%	100%	P
Lenawee	Charl.	NA	100%	100%	P
Livingst.	Charl.	NA	100%	100%	P
Luce	Charl.	NA	100%	100%	P
Mackinac	Charl.	NA	100%	100%	P
Macomb	Charl.	NA	100%	100%	P
Marquette	Charl.	NA	100%	100%	P
Mason	Charl.	NA	100%	100%	P
Mecosta	Charl.	NA	100%	100%	P
Menominee	Charl.	NA	100%	100%	P
Midland	Charl.	NA	100%	100%	P
Missaukee	Charl.	NA	100%	100%	P
Monroe	Charl.	NA	100%	100%	P
Montcalm	Charl.	NA	100%	100%	P
Muskegon	Charl.	NA	100%	100%	P
Newaygo	Charl.	NA	100%	100%	P
Oakland	Charl.	NA	100%	100%	P
Oceana	Charl.	NA	100%	100%	P
Ogemaw	Charl.	NA	100%	100%	P
Ontonagon	Charl.	NA	100%	100%	P
Osceola	Charl.	NA	100%	100%	P
Oscoda	Charl.	NA	100%	100%	P
Otsego	Charl.	NA	100%	100%	P
Ottawa	Charl.	NA	100%	100%	P
Roscommon	Charl.	NA	100%	100%	P
Saginaw	Charl.	NA	100%	100%	P
St. Clair	Charl.	NA	100%	100%	P
St. Joseph	Charl.	NA	100%	100%	P
Sanilac	Charl.	NA	100%	100%	P
Schoolcra	Charl.	NA	100%	100%	P
Shiawas	Charl.	NA	100%	100%	P
Tuscola	Charl.	NA	100%	100%	P
Van Buren	Charl.	NA	100%	100%	P
Washtenaw	Charl.	NA	100%	100%	P
Wayne	Charl.	NA	100%	100%	P

1. Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.
2. Authorization indicated by P = Primary Disposal; C = Contingency Disposal; O = Other conditions must be met. The reasons for Contingency Disposal and Other Conditions are detailed below.
 - C. The counties authorized as contingency counties above may be used for the disposal of wastes generated in Charlevoix County provided the counties listed as Primary are not able to accept waste from Charlevoix County and Charlevoix County is allowed to dispose of wastes in that county for Primary or Contingency purposes according to the solid waste plan in effect in that county.

OLID WASTE DISPOSAL AREAS

The following identifies the names of existing disposal areas, which will be utilized to provide the required capacity, and management needs for the solid waste generated within Charlevoix county for the next ten years. The following pages contain descriptions of the solid waste disposal facilities which are located within the County and the disposal facilities located outside of the County which we foresee being utilized by the County for the planning period. Additional new facilities within the County may be utilized if sited in compliance with the requirements contained within this Plan. Facilities outside of Michigan may also be used if legally available for such use. Waste generated within Charlevoix County may be disposed of in facilities not listed below, provided they are located in the counties listed in this Plan for export to the county in which the facility provided for that waste to be imported into that county for disposal.

TYPE II LANDFILL:

Cedar Ridge Landfill*

Whitefeather Landfill

Glen's Landfill

CES (Waters) Landfill

Montmorency-Oscoda Landfill

Elk Run Landfill

Northern Oaks

TYPE III LANDFILL:

Southdown Cement Landfill

INCINERATOR:

Waste-to-energy incinerator
-none provided for

TYPE A TRANSFER FACILITY:

Top Rank Transfer Facility (Bells
Bay Road Facility)

Cedar Ridge Transfer Station

Emmet County Transfer Station, need table – use page 64.

TYPE B TRANSFER FACILITY:

Beaver Island Transfer Station

Boyne Valley Transfer Station

East Jordan Transfer Station

Melrose Township Transfer Station

Top Rank Transfer Station (US 31 Location)

*Until existing 40 acres reaches capacity.

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Beaver Island Transfer Station

County: Charlevoix Location: Town T39N Range R10W Section(s) 34

Map identifying location included in Attachment Section: Yes X No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: Including, but not limited to, Glens Landfill, CES (Waters), Northern Oaks, Whitefeather Landfill or others which this plan and the receiving county Plan allows.

Public Private Owner: Peaine and St. James Township

Operating Status (check)	Waste Types Received (check all that apply)
<input checked="" type="checkbox"/> open	<input checked="" type="checkbox"/> residential
<input type="checkbox"/> closed	<input checked="" type="checkbox"/> commercial
<input checked="" type="checkbox"/> licensed	<input checked="" type="checkbox"/> industrial
<input type="checkbox"/> unlicensed	<input checked="" type="checkbox"/> construction & demolition
<input type="checkbox"/> construction permit	<input type="checkbox"/> contaminated soils
<input type="checkbox"/> open, but closure pending	<input type="checkbox"/> special wastes *
	<input checked="" type="checkbox"/> other: <u>Trees and bush</u>

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

Also collects recyclables.

Site Size:

Total area of facility property: 40 acres
Total area sited for use: _____ acres
Total area permitted: All acres
 Operating: _____ acres
 Not excavated: _____ acres

Current capacity: _____
Estimated lifetime: _____ years
Estimated days open per year: 300 days
Estimated yearly disposal volume: 280-300 tons of baled and boxed refuse

(if applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: East Jordan Transfer Station

County: Charlevoix Location: Town T32N Range R7W 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: See list on Page 58.

Public Private Owner: City of East Jordan

Operating Status (check)	Waste Types Received (check all that apply)
<input checked="" type="checkbox"/> open	<input checked="" type="checkbox"/> residential
<input type="checkbox"/> closed	<input checked="" type="checkbox"/> commercial
<u>NA</u> licensed	<input checked="" type="checkbox"/> industrial
<u>NA</u> unlicensed	<input checked="" type="checkbox"/> construction & demolition
<input type="checkbox"/> construction permit	<input type="checkbox"/> contaminated soils
<input type="checkbox"/> open, but closure pending	<input type="checkbox"/> special wastes *
	<input type="checkbox"/> other: _____

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

Site Size:
Total area of facility property: 40 acres
Total area sited for use: All acres
Total area permitted: _____ acres
Operating: _____ acres
Not excavated: _____ acres

Current capacity: _____
Estimated lifetime: _____ years
Estimated days open per year: 104 days
Estimated yearly disposal volume: 3,800 loose cubic yards

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Top Rank Transfer Station

County: Charlevoix Location: Town T33N Range R8W Section(s) 4

Map identifying location included in Attachment Section: Yes X No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: See list on Page 58.

 Public X Private Owner: Top Rank Disposal, Inc.

Operating Status (check)	Waste Types Received (check all that apply)
<u> X </u> open	<u> X </u> residential
<u> </u> closed	<u> X </u> commercial
<u> NA </u> licensed	<u> X </u> industrial
<u> NA </u> unlicensed	<u> X </u> construction & demolition
<u> </u> construction permit	<u> </u> contaminated soils
<u> </u> open, but closure pending	<u> </u> special wastes *
	<u> </u> other: _____

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

Site Size:

Total area of facility property:	<u> 40 </u>	acres
Total area sited for use:	<u> ALL </u>	acres
Total area permitted:	<u> </u>	acres
Operating:	<u> </u>	acres
Not excavated:	<u> </u>	acres

Current capacity:	<u> </u>	
Estimated lifetime:	<u> </u>	years
Estimated days open per year:	<u> 312 </u>	days
Estimated yearly disposal volume:	<u> 4,200 - 5,000 </u>	yrds/month

(if applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Top Rank Transfer Station

County: Charlevoix Location: Town T34N Range R8W Section(s) 33

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: See list on page 58.

Public Private Owner: Top Rank Disposal, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
<input checked="" type="checkbox"/>	open	<input checked="" type="checkbox"/>	residential
<input type="checkbox"/>	closed	<input checked="" type="checkbox"/>	commercial
<u>NA</u>	licensed	<input checked="" type="checkbox"/>	industrial
<u>NA</u>	unlicensed	<input checked="" type="checkbox"/>	construction & demolition
<input type="checkbox"/>	construction permit	<input type="checkbox"/>	contaminated soils
<input type="checkbox"/>	open, but closure pending	<input type="checkbox"/>	special wastes *
		<input type="checkbox"/>	other: _____

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

Site Size:

Total area of facility property: 40 acres
Total area sited for use: ALL acres
Total area permitted: _____ acres
 Operating: _____ acres
 Not excavated: _____ acres

Current capacity: _____
Estimated lifetime: _____ years
Estimated days open per year: 312 days
Estimated yearly disposal volume: 4,200 - 5,000 yrds/month

(if applicable)

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

LECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Emmet County Transfer Station

County: Emmet Location: Town T35N Range R5W Section(s) 10

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: See page 58.

Public Private Owner: Top Rank Disposal, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
<input checked="" type="checkbox"/>	open	<input checked="" type="checkbox"/>	residential
<input type="checkbox"/>	closed	<input checked="" type="checkbox"/>	commercial
<input checked="" type="checkbox"/>	licensed	<input checked="" type="checkbox"/>	industrial
<input type="checkbox"/>	unlicensed	<input checked="" type="checkbox"/>	construction & demolition
<input type="checkbox"/>	construction permit	<input type="checkbox"/>	contaminated soils
<input type="checkbox"/>	open, but closure pending	<input type="checkbox"/>	special wastes *
		<input type="checkbox"/>	other: _____

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

Site Size:

Total area of facility property:	<u>40</u>	acres
Total area sited for use:	<u>10</u>	acres
Total area permitted:	<u>10</u>	acres
Operating:	_____	acres
Not excavated:	_____	acres

Current capacity:	_____	years
Estimated lifetime:	_____	days
Estimated days open per year:	<u>300</u>	days
Estimated yearly disposal volume:	<u>67,000</u>	yrds/month

(if applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Cedar Ridge Transfer Station

County: Charlevoix Location: Town T33N Range R7W Section(s) 19

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: See list on page 58.

Public Private Owner: _____

Operating Status (check)		Waste Types Received (check all that apply)	
<input type="checkbox"/>	open	<input checked="" type="checkbox"/>	residential
<input type="checkbox"/>	closed	<input checked="" type="checkbox"/>	commercial
<input type="checkbox"/>	licensed	<input checked="" type="checkbox"/>	industrial
<input type="checkbox"/>	unlicensed	<input checked="" type="checkbox"/>	construction & demolition
<input checked="" type="checkbox"/>	construction permit	<input checked="" type="checkbox"/>	contaminated soils
<input type="checkbox"/>	open, but closure pending	<input type="checkbox"/>	special wastes *
		<input type="checkbox"/>	other: _____

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

sbestos (non-friable)

Site Size:

Total area of facility property: 40 acres
Total area sited for use: 2 acres
Total area permitted: 2 acres
 Operating: _____ acres
 Not excavated: _____ acres
Current capacity: _____ cubic yards
Estimated lifetime: _____ years
Estimated days open per year: 280 days
Estimated yearly disposal volume: 90,000 gate cubic yards

(if applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Glen's Sanitary Landfill

County: Leelanau Location: Town T28N Range 13W Section(s) 35

Map identifying location included in Attachment Section: Yes X No

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

 Public X Private Owner: Waste Management of Michigan

Operating Status (check)	Waste Types Received (check all that apply)
<u>X</u> open	<u>X</u> residential
<u> </u> closed	<u>X</u> commercial
<u>X</u> licensed	<u>X</u> industrial
<u> </u> unlicensed	<u>X</u> construction & demolition
<u>X</u> construction permit	<u>X</u> contaminated soils
<u> </u> open, but closure pending	<u>X</u> special wastes *
	other: _____

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

Asbestos (non-friable)

Site Size:

Total area of facility property:	<u>460</u>	acres
Total area sited for use:	<u>133</u>	acres
Total area permitted:	<u>133</u>	acres
Operating:	<u>14.8</u>	acres
Not excavated:	<u>89.3</u>	acres

Current capacity:	<u>22,000,000</u>	cubic yards
Estimated lifetime:	<u>60</u>	years
Estimated days open per year:	<u>264</u>	days
Estimated yearly disposal volume:	<u>300,000</u>	gate cubic yards

(if applicable)

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

LECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Harlan's Landfill

County: Manistee Location: Town T21N Range R16W Section(s) 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: _____

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:

Paper mill sludge.

Site Size:

Total area of facility property: 160 acres

Total area sited for use: 120 acres

Total area permitted: 40 acres

 Operating: 40 acres

 Not excavated: 13 acres

Current capacity: 170,000

Estimated lifetime: 14 years

Estimated days open per year: 250 days

Estimated yearly disposal volume: 200,000 gate cubic yards
(if applicable)

Annual energy production:

 Landfill gas recovery projects: NA megawatts

 Waste-to-energy incinerators: NA megawatts

ELECTED SYSTEM

Facility Description

Facility Type: Type II Landfill

Facility Name: Montmorency-Oscoda Joint Sanitary Landfill

County: Montmorency Location: Town T29N Range R3E Section(s) 6

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: Montmorency and Oscoda County Public 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: 80 acres
Total area sited for use: 80 acres
Total area permitted: 80 acres
Operating: 3 - 4 acres
Not excavated: 37 - 40 acres

Current capacity: 350,000 cubic yards
Estimated lifetime: 30 years
Estimated days open per year: 310 days
Estimated yearly disposal volume: 140,000 gate cubic yards

(if applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Elk Run Sanitary Landfill

County: Presque Isle Location: Town T33N Range R2E Section(s) NE ¼ of 5

Map identifying location included in Attachment Section: Yes X No

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

 Public x Private Owner: Republic

Operating Status (check)

- x open
- closed
- x licensed
- unlicensed
- x construction permit
- open, but closure pending

Waste Types Received (check all that apply)

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

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

Asbestos

Site Size:

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

Current capacity: _____
Estimated lifetime: >20 years
Estimated days open per year: 286 days
Estimated yearly disposal volume: 140,000 gate cubic yards

(if applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Northern Oaks

County: Clare Location: Town T19N Range R4W Section(s) 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: _____

_____ Public _____ Private Owner: Waste Management Inc.

Operating Status (check)	Waste Types Received (check all that apply)
<input checked="" type="checkbox"/> open	<input checked="" type="checkbox"/> residential
_____ closed	<input checked="" type="checkbox"/> commercial
<input checked="" type="checkbox"/> licensed	<input checked="" type="checkbox"/> industrial
_____ unlicensed	<input checked="" type="checkbox"/> construction & demolition
<input checked="" type="checkbox"/> construction permit	<input checked="" type="checkbox"/> contaminated soils
_____ open, but closure pending	<input checked="" type="checkbox"/> special wastes *
	_____ other: _____

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

Water Treatment filter cake, sludge, asbestos

Site Size:

Total area of facility property:	<u>320</u>	acres
Total area sited for use:	<u>76</u>	acres
Total area permitted:	<u>76</u>	acres
Operating:	<u>19</u>	acres
Not excavated:	<u>57</u>	acres

Current capacity:	<u>17,600,000</u>	
Estimated lifetime:	<u>37</u>	years
Estimated days open per year:	<u>260</u>	days
Estimated yearly disposal volume:	<u>409,000</u>	gate cubic yards

(if applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type III Landfill

Facility Name: Southdown Cement Company Monofill

County: Charlevoix Location: Town T35N Range R8W Section(s) 33

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: Southdown

Operating Status (check)	Waste Types Received (check all that apply)
<input checked="" type="checkbox"/> open	_____ residential
_____ closed	_____ commercial
<input checked="" type="checkbox"/> licensed	_____ industrial
_____ unlicensed	_____ construction & demolition
_____ construction permit	_____ contaminated soils
_____ open, but closure pending	<input checked="" type="checkbox"/> special wastes *
	<input checked="" type="checkbox"/> other: <u>Cement kiln dust</u>

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

Site Size:

Total area of facility property:	<u>1000</u>	acres
Total area sited for use:	<u>35</u>	acres
Total area permitted:	<u>35</u>	acres
Operating:	<u>12</u>	acres
Not excavated:	<u>23</u>	acres
Current capacity:	_____	cubic yards
Estimated lifetime:	<u>730</u>	years
Estimated days open per year:	<u>260</u>	days
Estimated yearly disposal volume:	<u>240,000</u>	gate cubic yards

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

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Whitefeather Landfill Republic Services of Michigan

County: Bay Location: Town T17N Range R4E Section(s) 2

Map identifying location included in Attachment Section: Yes XNo

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

 Public x Private Owner: _____

Operating Status (check)

X open
 closed
X licensed
 unlicensed
X construction permit
 open, but closure pending

Waste Types Received (check all that apply)

X residential
X commercial
X industrial
X construction & demolition
X contaminated soils
X special wastes *
 other: _____

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

Site Size:

Total area of facility property: 752 acres
Total area sited for use: 106 acres
Total area permitted: 56.5 acres
 Operating: 24.5 acres
 Not excavated: 32.0 acres

Current capacity: 3,600,000 bank cubic yards
Estimated lifetime: >20 years
Estimated days open per year: 260 days
Estimated yearly disposal volume: 180,000 gate cubic yards

(if applicable)

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

SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION

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

In Phase 1 of the Selected System Alternative comprehensive solid waste collection services would be made available to all households and businesses in the County. Illegal dumping and litter would be policed with enforcement of violations. Spring/fall clean-up days would be provided in more urban areas with scavenging/trading/reuse encouraged and recycling of as many materials left as possible. Household hazardous waste collection services would be provided and would include services to collect small quantities of agricultural pesticides and herbicides. Adopt a "_____" programs would be organized with volunteers and business/service group sponsorship for periodic cleaning of roadsides, streambanks, lakeshores, parks and forests. A ban on selected types of recyclable materials would be considered, in cooperation with transfer and disposal facilities serving the county. An effective date for the ban would be targeted for a period 3 to 5 years in the future with the ban possible triggered by failure to reach specified diversion levels.

Existing landfills in the region would be used with wastes being aggregated at Transfer Stations and direct haul by compacting collection vehicles being the primary method of transportation to the landfills. The existing network of transfer facilities for solid waste drop-off would be available, including Boyne Valley Township, Melrose Township, East Jordan, Top Rank, Waste Management, and Beaver Island.

In Phase II of the Selected Alternative, the comprehensive solid waste collection services would continue to be available to all households and businesses in the County and use of these services strongly encouraged. Strong illegal dumping and litter policing would continue. Spring/fall cleanup days would be provided in the urban service district with scavenging/trading/reuse encouraged. The household hazardous waste collection services would continue to grow with the development of a permanent drop-off site to use as a base for collection operations. Adopt a "_____" programs would be further developed with volunteers and business/service group sponsorship for periodic cleaning of roadsides, streambanks, lakeshores, parks and forests. Selected materials (e.g. OCC) would be considered for a disposal ban targeted for the end of year 5 should specified levels of diversion not be achieved.

Compacting collection vehicles would continue to use of transfer stations, with some waste being direct hauled to area landfills. The network of drop-off facilities for solid waste would be available including one or more "flagship" sites that took other types of waste (bulky, C&D, etc.) with this system preferably located at the same sites as recycling drop-offs.

RESOURCE CONSERVATION EFFORTS:

The following describes the Selected System's proposed conservation efforts to reduce the amount of solid waste generated throughout the county. Information will be included with recycling and composting promotional efforts undertaken by the County of Charlevoix and Water and Air Team Charlevoix, to promote the donation of useable materials to resale shops and encourage the purchase of items containing recycled materials.

The county shall work with communities to promote scavenging of useful materials that are put out for collection during the "Spring Clean-up" programs.

While some air space and landfills will be conserved through the generation of less waste, as a result of these efforts, we currently have no means to measure the actual effect these efforts will have on conserving resources.

WASTE REDUCTION, RECYCLING, & COMPOSTING PROGRAMS:

Volume Reduction Techniques

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

The Plan provides for high compaction waste transfer in order to increase the density of loads that are transported to landfills, thus lowering tip fees at those landfills and/or reducing transportation costs. This will reduce the gate yards taken in at these landfills, but will not impact bank yards (i.e.: estimated air space conserved in cubic yards) since the final compaction density at landfills is not expected to change. Landfills will use less energy, fuel, etc., to reach those densities, however, which does provide some economic benefit to the landfill owner.

No measurable airspace will be saved by the limited amount of volume reduction methods that will be utilized during the life of this plan.

Overview of Resource Recovery Programs:

The following describes the type and volume of material in the County's waste stream that may be available for recycling or composting programs.

Total waste generation for Charlevoix County was calculated using pounds per person per day (residential) and pounds per employee per day (commercial and industrial) models. These numbers were compared with actual disposal and recovery data to determine a final generation number. Using population projected out over the planning period, waste generation was then estimated. The County then evaluated various material recovery and waste reduction strategies, and compared actual recovery rates for the current system against what may be possible given new program implementation. With target recovery goals in mind (14+ percent for 2003 and 25+ percent for 2008), the County was able to determine target material tonnage for recovery and then matched actual programs and recovery benchmarks from other communities, needed to meet those goals.

Effort Description	Est. Diversion Tons/Yr		
	Current	5th yr	10th yr
Recycling Drop-off	170	750	1575
Curbside recycling	20	60	900
Commercial recycling	762	2,360	6,274
Yard waste collection	385	600	1,100
Household Hazardous waste collection		3	5
TOTALS	1,480	3,770	9,489

The following table provides estimates of air space conserved through a combination of waste reduction efforts page.

Technique Description	Est. Air Space Conserved			Yds ³ /Yr
	Current	5th yr	10th yr	
Recycling Drop-off	680	3,000	6,300	
Curbside recycling	80	240	3,600	
Commercial recycling	3,048	9,440	25,096	
Yard waste collection	1,540	2,400	4,400	
Household Hazardous waste collection		12	20	
TOTAL	5,348	15,092	39,416	

RECYCLING AND COMPOSTING

The following is a brief analysis of the recycling and composting programs selected for the County in this Plan. Additional information on operation of recycling and composting programs is included in Appendix A. The analysis covers various factors within the County and the impacts of these factors on recycling and composting. Following the written analysis the tables on pages III-18, 19, & 20 list the existing recycling, composting, and source separation of hazardous materials programs that are currently active in the County and which will be continued as part of this Plan. The second group of three tables on pages III-21, 22, & 23 list the recycling, composting, and source separation of hazardous materials programs that are proposed in the future for the County. It is not this Plan update's intent to prohibit additional programs or expansions of current programs to be implemented beyond those listed

Recycling programs within the County are feasible. Details of existing and planned programs are included on the following pages.

Recycling programs for the County have been evaluated and it has been determined that it is not feasible to conduct any programs because of the following:

In Phase I of the Selected Alternative the following recycling systems would be developed:

Recycling Incentives:

Proactive education and promotion strategies would encourage responsible solid waste management and strong reduce/reuse/recycle behavior. Pay As You Throw (PAYT) programs would be heavily promoted throughout the County. Recycling drop-offs would add more materials to encourage overall participation in program by more citizens and businesses. High visibility promotion and education programs would be in place. A ban on landfill disposal for certain items would be evaluated and targeted for a period five years away should specified levels of diversion not be reached. This will provide a further incentive for increased adoption and participation in recovery programs.

drop-off Residential Recycling:

A permanent network of drop-off sites for recycling would be located in the County, open at convenient hours most days of the week. Material would be collected in a partially commingled form to make use of the facilities easier. A consistent range of recyclable materials would be collected at each of the drop-off sites. Existing drop-offs in East Jordan, Beaver Island, Melrose Township, Boyne Valley and the Cedar Ridge Landfill would be improved/expanded and additional sites added in three locations, possibly Boyne City, City of Charlevoix, the Young State Park, and/or Hays or Bay Township. Materials at a minimum would include commingled fiber, corrugated cardboard, glass, steel cans and #2 HDPE.

Curbside Residential Recycling:

Subscription curbside recycling would be available for residents that were willing to make their own arrangements for the service with area haulers. Note, however, that a critical mass of participants are needed to make collection economically viable.

Commercial Recycling:

Businesses would be encouraged to use the drop-off recycling network for smaller volumes of commingled paper, corrugated cardboard and containers. Arrangements would be made for larger volumes to be delivered to a site capable of handling compacted or loose loads of commercial recyclables. Businesses would be encouraged to contract with their hauler for collection of cardboard and other high volume recyclable materials.

Material Transfer and Processing:

Arrangements would be made to provide access to a material recovery facility (MRF) to service all recycling collectors in the system. These arrangements would include guarantees that sufficient capacity was available to meet the County's needs over the long term and that the facility would be able to process commingled containers and commingled fibers as well as presorted recyclables like OCC.

Currently, Emmet County remains the best option for processing. Note that Emmet County does not yet handle commingled containers.

In Phase II of the Selected Alternative the recycling systems would be further developed:

Recycling Incentives:

Proactive education and promotion strategies would encourage responsible solid waste management and strong reduce/reuse/recycle behavior. Pay As You Throw (PAYT) programs would be widespread and aggressively promoted throughout the County. Recycling collection programs as well as drop-offs would add more materials to encourage overall participation in program by more citizens and businesses. Selected materials (e.g. OCC) would

be considered for a disposal ban targeted for the end of year 5 should specified levels of diversion not be achieved

Drop-off Residential Recycling:

A permanent network of six to eight drop-off sites for recycling would be located in the County, open at convenient hours most days of the week. Material would be collected in a partially commingled form to make use of the facilities easier (provided a processing option can be secured). Two additional "flagship" drop-off sites would be larger than the rest, be staffed, have an educational component, and collect the largest number of different types of materials, such as boxboard, textiles, scrap metal, milk cartons and other materials. (see Alternative 1 description for list of sites).

Curbside Residential Recycling:

Curbside recycling would be provided to all residents in a designated curbside service district that included most of Charlevoix and other densely populated areas. Subscription service outside this district would be strongly encouraged.

Commercial Recycling:

A permanent site would be provided for businesses to drop-off a wide variety of recyclables including commingled containers and commingled paper. A business recycling service district would be established and businesses within the district assisted with contracting for recycling collection services provided by licensed haulers/service providers.

Material Transfer and Processing:

A material recovery facility (MRF) would be made available to all recycling collectors in the system. Ideally, the facility would be able to process commingled containers and commingled fibers as well as presorted recyclables like OCC. Commercial recyclables would be able to be tipped at the facility for a reasonable fee that was lower than the tipping fee at area landfills. Some capability would be provided to remove contaminants and small quantities of solid waste from loads of recyclables. Transfer to the Emmet MRF may remain the most viable option, however, a small, "mini" MRF could be considered for the County.

XX Composting programs within the County are feasible. Details of existing and planned programs are included on the following pages.

Composting programs for the County have been evaluated and it has been determined that it is not feasible to conduct any programs because of the following:

In Phase I of the Selected Alternative the following composting systems would be developed:

Residential Yard Waste Composting:

Fall leaf collection would be provided in all villages/town/cities. Backyard composting would be encouraged through distribution of backyard bins at discount rates. At least one and possibly more permanent drop-off options for yard waste would be provided throughout the County.

Charlevoix, Boyne City, East Jordan and Beaver Island would continue current collection programs, with expansion of fall collection at the curb in some communities. Other municipalities including Boyne Falls would be added. At least three permanent drop-off sites would be established in conjunction with recycling drop-off to accept seasonal yard waste.

In Phase II of the Selected Alternative the following composting systems would be further developed:

Residential Yard Waste Composting:

Fall leaf collection would be provided in all villages/town/cities. Backyard composting would be encouraged through distribution of backyard bins at discount rates. A similar mulching mower program would encourage grass cycling. Permanent drop-off options for yard waste would be provided throughout the County with at least one "flagship" site taking all types of yard waste and providing finished compost for distribution to residents. At least one compost processing operation is recommended, including some equipment capable of turning and mixing materials; an alternative strategy could be working with a local farmer to develop a land application program.

XX Programs for source separation of potentially hazardous materials are feasible and details are included on the following pages.

___ Separation of potentially hazardous materials from the County's waste stream has been evaluated and it has been determined that it is not feasible to conduct any separation programs because of the following:

In Phase I of the Selected Alternative the following household hazardous waste collection systems would be developed:

Clean Community:

Household hazardous waste collection services would be provided and expanded to include collection of small quantities of agricultural pesticides and herbicides.

In Phase II of the Selected Alternative the following household hazardous waste collection systems would be further developed:

Clean Community:

Household hazardous waste collection services would be provided including collection of agricultural pesticides and herbicides -- all coordinated from a single permanent drop-off site.

SELECTED SYSTEM

TABLE III-1

RECYCLING: Based on Current Programs

Program Management Responsibilities²

<u>Program Name</u>	<u>Service Area¹</u>	<u>Public or Private</u>	<u>Collection Point³</u>	<u>Collection Frequency⁴</u>	<u>Materials⁵</u>	<u>Development</u>	<u>Operation</u>	<u>Evaluation</u>
<u>East Jordan Transfer Station</u>	<u>Charlevoix & Antrim Ctys.</u>	<u>Public</u>	<u>D</u>	<u>*</u>	<u>A-F</u>	<u>E.J. DPW</u>	<u>"</u>	<u>"</u>
<u>Beaver Island TS</u>	<u>Island</u>	<u>Public</u>	<u>D</u>	<u>*</u>	<u>A-F & J</u>	<u>Auth. Of 2 Twps.</u>	<u>"</u>	<u>"</u>
<u>Melrose Twp. TS</u>	<u>Melrose Twp.</u>	<u>Public</u>	<u>D</u>	<u>"</u>	<u>A-F</u>	<u>Melrose Twp. Bd.</u>	<u>"</u>	<u>"</u>
<u>Boyne Valley Twp. TS</u>	<u>Boyne Valley Twp.</u>	<u>Public</u>	<u>D</u>	<u>*</u>	<u>A-F</u>	<u>Boyne Valley Twp. Bd.</u>	<u>"</u>	<u>"</u>
<u> Cedar Ridge LF Description</u>	<u>County</u>	<u>Private</u>	<u>D</u>	<u>d</u>	<u>A-F</u>	<u>5</u>	<u>5</u>	<u>5</u>
<u>Commercial Collection</u>	<u>County</u>	<u>Private</u>	<u>C</u>	<u>b**</u>	<u>A,E</u>	<u>5</u>	<u>5</u>	<u>5</u>

* Open multiple days per week, schedule varies by season.

** Service frequency is determined in contract by service provider and customer.

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

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

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

⁴ Identified by d=daily; w=weekly; b=bi-weekly; m=monthly; Sp=Spring; Su=Summer; Fa=Fall; Wi=Winter.

⁵ Identified by the materials collected by listing of the letter located by that material type. A=Plastics; B=Newspaper; C= Corrugated Containers; D=Other paper; E=Glass; F=Metals; P=Pallets; J=Construction & Demolition; K=Tires; L1, L2 etc. - as identified on page 25.

SELECTED SYSTEM

TABLE III-2

COMPOSTING: Based on Current Programs

<u>Program Name</u>	<u>Service Area</u> ¹	<u>Public or Private</u>	<u>Collection Point</u> ³	<u>Collection Frequency</u> ⁴	<u>Materials Collected</u> ⁵	<u>Program Management Responsibilities</u> ²		
						<u>Development</u>	<u>Operation</u>	<u>Evaluation</u>
<u>East Jordan TS</u>	<u>Charlevoix & Antrim Ctys.</u>	<u>Public</u>	<u>c/d</u>	<u>W/SpFa</u>	<u>GLW</u>	<u>EJ DPW</u>	<u>"</u>	<u>"</u>
<u>City of Charlevoix</u>	<u>Charlevoix</u>	<u>Public</u>	<u>B</u>	<u>b</u>	<u>GLW</u>	<u>Charlevoix St. Dept.</u>	<u>"</u>	<u>"</u>
<u>Boyne City</u>	<u>Boyne City</u>	<u>Public</u>	<u>C/d</u>	<u>B/Sp Fa</u>	<u>GLW</u>	<u>Boyne City St. Dept.</u>	<u>"</u>	<u>"</u>
<u>Beaver Island</u>	<u>Island</u>	<u>Public</u>	<u>D</u>	<u>d</u>	<u>GLW</u>	<u>Auth. Of 2 Twps.</u>	<u>"</u>	<u>"</u>

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

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

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

³ Identified by c=curbside; d=drop-off; o=onsite

⁴ Identified by d=daily; w=weekly; b=bi-weekly; m=monthly; Sp=Spring; Su=Summer; Fa=Fall; Wi=Winter

⁵ Identified by G=Grass clippings; L=Leaves F=Food; W=Wood; P=Paper; S=Municipal Sludge; A=Animal Waste/Bedding; M=Municipal Solid Waste; L1, L2 etc.=as identified on page 25.

TABLE III-3

SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS: Based on Current Programs

<u>Program Name</u>	<u>Service Area</u> ¹	<u>Public or Private</u>	<u>Collection Point</u> ³	<u>Collection Frequency</u> ⁴	<u>Materials Collected</u> ⁵	<u>Program Management Responsibilities</u> ²		
						<u>Develop-ment</u>	<u>Oper-ation</u>	<u>Evalu-ation</u>
<u>K-Mart</u>	<u>County</u>	<u>Private</u>	<u>D</u>	<u>d</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
<u>Radio Shack</u>	<u>County</u>	<u>Private</u>	<u>d</u>	<u>d</u>	<u>B-2</u>	<u>5</u>	<u>5</u>	<u>5</u>

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

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

³ Identified by c=curbside; d=drop-off; o=onsite

⁴ Identified by d=daily; w=weekly; b=bi-weekly; m=monthly; Sp=Spring; Su=Summer; Fa=Fall; Wi=Winter

⁵ identified by materials collected by that material type. AR=Aerosol Cans; A=Automotive Products except Used Oil, Oil Filters and Antifreeze; AN=Antifreeze; B1=Lead Acid Batteries; B2Household Batteries; C=Cleaners and Polishers; H=Hobby and Art Supplies; OF=Used Oil Filters; P=Paints and Solvents; PS=Pesticides and Herbicides; PH=Personal and Health Care Products; U=Used Oil; OT=Other materials and identified.

SELECTED SYSTEM

TABLE III-4

PROPOSED RECYCLING:

<u>Program Name</u>	<u>Service Area</u> ¹	<u>Public or Private</u>	<u>Collection Point</u> ³	<u>Collection Frequency</u> ⁴	<u>Program Management Responsibilities</u> ²			
					<u>Materials Collected</u> ⁵	<u>Development</u>	<u>Operation</u>	<u>Evaluation</u>
<u>8-station drop-off</u>	<u>County-wide</u>	<u>Public</u>	<u>D</u>	<u>d</u>	<u>A-F</u>	<u>2</u>	<u>2</u>	<u>2</u>
<u>Subscription curbside (years 1-5)</u>	<u>Limited</u>	<u>Private</u>	<u>C</u>	<u>w</u>	<u>A-F</u>	<u>5</u>	<u>5</u>	<u>5</u>
<u>Contract curbside (years 6-10)</u>	<u>Urban areas</u>	<u>Private</u>	<u>C</u>	<u>w</u>	<u>A-F</u>	<u>5</u>	<u>5</u>	<u>5</u>
<u>Expanded commercial collection</u>	<u>Business districts</u>	<u>Private</u>	<u>C</u>	<u>*</u>	<u>B, C, D, F1, H, L</u>	<u>5</u>	<u>5</u>	<u>5</u>

* Frequency of collection will vary based upon business and volume generated.

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

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

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

⁴ Identified by d=daily; w=weekly; b=bi-weekly; m=monthly; Sp=Spring; Su=Summer; Fa=Fall; Wi=Winter

⁵ Identified by materials collected by listing of the letter located by that material type. A=Plastics; B=Newspaper; C= Corrugated Containers; D=Other paper; E=Glass; F=Metals; P=Pallets; J=Construction & Demolition; K=Tires; L1, L2 etc.=as identified on page 25.

SELECTED SYSTEM

TABLE III-5

PROPOSED COMPOSTING:

Program Management Responsibilities²

<u>Program Name</u>	<u>Service Area</u> ¹	<u>Public or Private</u>	<u>Collection Point</u> ³	<u>Collection Frequency</u> ⁴	<u>Materials</u> ⁵	<u>Development</u>	<u>Operation</u>	<u>Evaluation</u>
<u>Bovne City</u>	<u>Countywide</u>	<u>Public</u>	<u>d*</u>	<u>d**</u>	<u>GLW</u>	<u>Bovne City St. Dept</u>	<u>"</u>	<u>"</u>
<u>Charlevoix</u>	<u>Countywide</u>	<u>Public</u>	<u>d*</u>	<u>d**</u>	<u>GLW</u>	<u>Charlevoix St. Dept.</u>	<u>"</u>	<u>"</u>
<u>East Jordan</u>	<u>Countywide</u>	<u>Public</u>	<u>d*</u>	<u>d**</u>	<u>GLW</u>	<u>E.J. St.Dept.</u>	<u>"</u>	<u>"</u>
<u>Beaver Island</u>	<u>Countywide</u>	<u>Public</u>	<u>D</u>	<u>d</u>	<u>GLW</u>	<u>Auth. Of 2 Twps.</u>	<u>"</u>	<u>"</u>

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

Collection within city limits.

** Drop-off daily, curbside collection biweekly.

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

² Identified by 1=Designated Planning Agency; 2= County Board of Commissioners; 3=Department of Public Works;

4= Environmental Group; 5=Private Owner/Operator; 6=Other

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

⁴ Identified by d=daily; w=weekly; b=bi-weekly; m=monthly; Sp=Spring; Su=Summer; Fa=Fall; Wi=Winter

⁵ Identified by materials collected by listing of the letter located by that material type. G=Grass; L=Leaves F=Food; Br=Brush; W=Wood; P=Paper; S=Municipal Sewage Sludge; A=Animal Waste/Bedding; M=Municipal Solid Waste; L1, L2 etc.=as identified on page 25.

SELECTED SYSTEM

TABLE III-6

PROPOSED SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS:

<u>Program Name</u>	<u>Service Area</u> ¹	<u>Public or Private</u>	<u>Collection Point</u> ³	<u>Collection Frequency</u> ⁴	<u>Program Management Responsibilities</u> ²			
					<u>Materials Collected</u> ⁵	<u>Development</u>	<u>Operation</u>	<u>Evaluation</u>
<u>Household Hazardous Waste Collection Program</u>	<u>County-wide</u>	<u>Public</u>	<u>D</u>	<u>Quarterly</u>	<u>All</u>	<u>2</u>	<u>2</u>	<u>2</u>
<u>K-Mart</u>	<u>County-wide</u>	<u>Private</u>	<u>D</u>	<u>d</u>	<u>B-1</u>	<u>5</u>	<u>5</u>	<u>5</u>
<u>Radio Shack</u>	<u>Countywide</u>	<u>Private</u>	<u>D</u>	<u>d</u>	<u>B-2</u>	<u>5</u>	<u>5</u>	<u>5</u>

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

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

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

³ Collection Point: c=curbside; d=drop-off; o=onsite

⁴ Collection Frequency: d=daily; w=weekly; b=bi-weekly; m=monthly; Sp=Spring; Su=Summer; Fa=Fall; Wi=Winter

⁵ Materials: AR=Aerosol Cans; A=Automotive Products except Used Oil, Oil Filters & Antifreeze; AN=Antifreeze; B1=Lead Acid Batteries; B2=Household Batteries; C=Cleaners and Polishers; H=Hobby and Art Supplies; OF=Used Oil Filters; P=Paints and Solvents; PS=Pesticides and Herbicides; PH=Personal and Health Products; U=Used Oil; OT=Other Materials and identified.

IDENTIFICATION OF RESOURCE RECOVERY MANAGEMENT ENTITIES:

The following identifies those public and private parties, and the resource recovery or recycling programs for which they have management responsibilities.

Charlevoix County Board of Commissioners

Operate, contract to operate, or coordinate, as well as assist in the funding of recycling drop-off locations. Sponsor & fund recycling and composting educational programs.

Cities, Townships and Villages

Sponsor "Spring cleanup programs" and encourage salvaging to provide for the reuse of useful items, which would otherwise be landfilled. Waste collection companies providing collection during Spring cleanups, and throughout the year, would be encouraged to divert waste being collected to recycling facilities, or firms, as volumes warranted it feasible.

Operate compost sites within each community, or enter joint agreements to operate facilities at convenient sites.

Solid Waste Collection Companies

Collect segregated waste when sufficient quantities exist, and divert to recycling facilities.

WATER AND AIR TEAM CHARLEVOIX (WATCH), a local non-profit environmental group.

MSU Extension

Provide recycling and composting education programs.

PROJECTED DIVERSION RATES:

The following estimates the annual amount of solid waste which is expected to be diverted from landfills and incinerators as a result of the current resource recovery programs and in five and ten years.

<u>Collected Material:</u>	<u>Projected Annual Tons Diverted:</u>			<u>Collected Material:</u>	<u>Projected Annual Tons Diverted:</u>		
	Current	5th Yr	10 th Yr		Current	5th Yr	10th Yr
A. TOTAL PLASTICS:	19	63	175	G. GRASS AND LEAVES:	385	600	1,100
B. NEWSPAPER:	190	634	1,750	H. TOTAL WOOD WASTE:			
C. CORRUGATED CONTAINERS	409	1,363	3,762	I. CONSTRUCTION AND DEMOLITION:		500	1,000
D. TOTAL OTHER PAPER	181	602	1,487	J. FOOD AND FOOD PROCESSING			
F. OTHER MATERIALS:				K. TIRES:			
				L. TOTAL METALS:*	48	159	437

MARKET AVAILABILITY FOR COLLECTED MATERIALS:

The following identifies how much volume the existing markets are able to utilize the recovered materials, which were diverted from the County's Solid Waste Stream.

<u>Collected Material:</u>	<u>In-State Markets</u>	<u>Out-of-State Markets</u>	<u>Collected Material</u>	<u>In-State Markets</u>	<u>Out-of-State Markets</u>
A. TOTAL PLASTICS:	100%		G. GRASS AND LEAVES:	100%	
B. NEWSPAPER:	100%		H. TOTAL WOOD WASTE:	100%	
C. CORRUGATED CONTAINERS	100%		I. CONSTRUCTION AND DEMOLITION:	100%	
D. TOTAL OTHER PAPER	100%		J. FOOD AND FOOD PROCESSING	100%	
F. OTHER MATERIALS:	100%		K. TIRES:	100%	
			L. TOTAL METALS:	100%	

EDUCATIONAL AND INFORMATIONAL PROGRAMS:

It is often necessary to provide educational and informational programs regarding the various components of a solid waste management system before and during its implementation. These programs are offered to avoid miscommunication which results in improper handling of solid waste and to provide assistance to the various entities who participate in such programs as waste reduction and waste recovery. Following is a listing of the programs offered or proposed to be offered in this County.

<u>Program Topic</u> ¹	<u>Delivery Medium</u> ²	<u>Targeted Audience</u> ³	<u>Program Provider</u> ⁴
1	f	p	WATCH
1	n,r,t,f	p	CBC
2	n,r,t,f	p	CBC
3	n,r,t,f	p	CBC
4	n,r,t,f	p	CBC
5	n,r,t,f	p	CBC
2	n,r,t,f	p	Compost Site Operator
2	w,n,r,t,f	p	EX
Ag waste	w,n,r,t,f	farm community	EX
1,2	Class presentations	S k-12	All local school districts and Char-Em Int. School Dist.

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

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

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

⁴ Identified by EX = MSU Extension; EG = Environmental Group (Identify name); OO = Private Owner/Operator (Identify name); HD = Health Department (Identify name); DPA = Designated Planning Agency; CU = College/University (Identify name); LS = Local School (Identify name); ISD = Intermediate School District (Identify name); CBC=County Board of Commissioners; and Water and Air Team Charlevoix (WATCH), a local non-profit environmental group.

TIMETABLE FOR SELECTED SYSTEM IMPLEMENTATION

This timetable is a guideline to implement components of the Selected System. The following timeline gives a range of time in which the components will be implemented.

TABLE III-7

Management Components	Timeline
1) Establishment of County Recycling Committee	2000
2) Develop Detailed Recycling Plan	2000
3) Establish Funding Mechanism for Recycling Program	2000
4) Initiate expanded recycling education program	2000 – 2008
5) Enter into contracts or agreements to locate additional recycling drop-off locations.	2000
6) Contract to operate recycling drop-off sites	2000 – 2008
7) Evaluation of Landfill Disposal Option	2000 - 2008
8) Host periodic meetings with other counties, to coordinate recycling, collection, and disposal of solid waste.	2000 – 2008
9) Monitor recycling drop-off locations and track quantities of waste diverted/recycled.	2000 – 2008
10) Explore areas within the County for location of County owned landfill, should the need arise.	2000 – 2008
11) Evaluate materials, which should be banned from landfills.	2000 – 2008

SITING REVIEW PROCEDURES

Type II Landfills

The siting criteria for the allowed Charlevoix County Board of Commissioners owned and operated Type II Landfill shall be the same as for the Type III Landfills. Proposals by other than the Charlevoix County Board of Commissioners to construct a Type II Landfill shall be deemed to be inconsistent with this Plan.

Type III Landfills

Proposals by public or private entities to construct or expand Type III landfills other than these stated below shall be deemed to be inconsistent with this Plan.

Proposals by Charlevoix County to construct and operate a Type III Landfill open to the public, and, proposals by private companies to construct and operate a Type III Monofill shall meet the following siting criteria. A monofill is defined as a facility that is owned and operated by a company for the disposal of waste generated exclusively by that company.

Proposals for Type III Landfills other than those discussed below shall be deemed to be inconsistent with this Plan.

-Soils - Landfills shall not be located in a wetland regulated by Part 303, of Act 451 (Wetlands Protection), or a 100-year floodplain as defined by Rule 323.311 of the administrative rules of Part 31, of Act 451 (Water Resources Protection).

-Distance from Surface Water - A minimum of 2,000 ft. isolation distance from lakes and/or permanent flowing bodies of water and 500 feet from any water impoundment and/or intermittent flowing bodies of water as depicted on the Michigan source Inventory System (MIRIS) maps for Charlevoix County, dated 8-25-89. These requirements do not apply to drains and sedimentation ponds.

MIRIS maps may contain errors in identifying and locating permanent and intermittent bodies of water such as creeks, streams, ponds, lakes, etc. Once this Plan is approved the attached map becomes the ultimate source in determining the isolation distances from surface water and this cannot be changed regardless of on-site inspection of actual conditions at the site may reveal.

Distance from Ground Water - If it appears from readily available information that a proposed landfill will be able to meet Part 1 of P.A. 451 of 1994's requirements for groundwater isolation in effect when a determination of Plan consistency is made, the proposal is consistent with this siting criterion. If readily available information indicates that the project is unlikely to meet legal requirements for groundwater isolation, the proposal is inconsistent with this siting criterion. Favorable technical data obtained subsequent to a finding of inconsistency shall be a basis for requesting a re-determination from the County. Technical data for projects found consistent will be evaluated by the State as part of Act 451 of 1994, construction permit review.

Distance from residential development - A minimum distance of 1,500 feet shall be maintained from the boundary of the active fill area of any permitted landfill to any dwelling which exists prior to the first formal action to develop a new landfill. A landfill shall be exempted from this requirement provided the owner of the proposed facility either purchases or obtains waivers of this requirement from the owners of all dwellings within 1500 feet of the active fill area.

Distance from adjoining property boundaries - A minimum distance of 150 feet shall be maintained from the boundary of any active fill area.

RETURN TO
APPROVAL
LETTER

RETURN TO
APPROVAL
LETTER

Distance to all-weather roads - Landfills shall be located adjacent to an all weather road, or be served by a paved, private road which connects directly to an all-weather road. The landfill developer may upgrade existing roads to Class A all-weather road standards or create new roads to Class A all-weather road standards.

Zoning – Landfills shall be located in zoning districts in which they are permitted as a use by right, or in any area zoned to allow agricultural, commercial or industrial uses.

A vegetative planting shall be established and maintained, outside the screen or buffer area, to enable it to blend into the area. The vegetative planting shall consist of a mixture of coniferous trees of differing types, which have a minimum height of six-foot each at the time of planting, which will obscure the operational area. A naturally vegetated site having tree growth which obscures the man made buffer shall be exempted from the planting requirements, or if the facility is located in an area where adjacent industrial and warehousing obscures the view of the facility. **The decision as to whether the view is obscured shall be made by the Charlevoix County Planning Commission.**



Type A Transfer Stations
Type B Transfer Stations Requiring a License,
and Solid Waste and Processing Plants

These criteria are designed such that a wide latitude is provided for both the location and number of Transfer Stations and Processing Plants that can be located in Charlevoix County. A Type A Transfer Station is one that is designed to accept waste from mechanically unloaded vehicles. A Type B Transfer Station is one that is designed to accept waste from manually unloaded vehicles. Transfer stations that require a license have containers larger than 10 cubic yards in size and accept waste generated off site, or containers larger than 65 cubic yards in size that accept only waste generated on the premises. A Solid Waste Processing Plant includes 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. A processing plant does not include those facilities which process separated materials such as glass, cans, and paper for recycling. Solid Waste Incinerators and facilities processing paper, glass, metals, or other recyclables from a mixture of solid wastes, are also classified as being a Processing Plant.

The above listed facilities shall be located such that they will comply with all of the following requirements:

1. **Will either comply with, or not be in violation of any of, the following Public Acts, Ordinances, and Rules, unless specifically exempted by PA 451, of 1994, as amended.**



- Subdivision Control Act
- Land Division Act
- Condominium Act
- Soil Erosion & Storm Water Runoff Control Ordinance
- Sanitary Code
- All other applicable State and Federal Laws

County ordinances developed to regulate the collection, transportation, recycling, and disposal of solid wastes including those developed to implement this plan or portions thereof.

Local Zoning Ordinances to the extent they do not preclude the location of these facilities within a local community.

2. Located on a State Highway or County Road designated as meeting the Michigan Department of Transportation's standards for a Class A route by either the Michigan Department of Transportation or the Charlevoix County Road Commission, or in the case of a privately owned road, one certified as meeting that standard. If a road meeting those standards does not exist at the time of application for the construction permit, one shall be constructed or improved prior to the facility being put into use. If the private road has been created for the sole purpose of serving the transfer station, it would not be necessary to construct the road to Class A standards.
3. The facility will not be located in a regulated wetland as defined in the Natural Resources and Environmental Protection Act, PA 451 of 1994, as amended.
4. The facility will not be located within a 100-year floodplain as defined by Rule 323.11 of the Administration Rules of Part 31, Water Resources Protection, of the Natural Resources and Environmental Protection Act of 1994, PA 451, as amended.
5. The parcel or parcels of property upon which the transfer station is located shall have a minimum of 5 acres of land and a minimum of 330 feet on the Class A road right-of-way. If not located on a Class A road, the frontage shall be publicly maintained.
6. Neighboring properties shall be buffered from the transfer station. The purpose of this buffer is to reduce noise, eliminate blowing debris and litter, dust, odors, and visual impact of the Transfer Station by the construction of an eight foot high fence or screen which shall consist of one or more of the following:
 - a. Solid board fences with wood posts must be not less than four inches by four inches (4" x 4") and solid board cover not less than one inch (1") thick. Masonry piers may be substituted for wood posts. Posts or piers shall be spaced not more than eight feet (8) on center. The finished side of the wood shall face abutting properties.
 - b. Wrought iron, open mesh or slatted fencing, must not exceed the ratio of one part open to six-parts of solid fencing.
 - c. Masonry walls must be designed and constructed to facilitate maintenance and not to modify natural drainage in such a way as to endanger adjacent property. The outer face of such wall (the face away from the use, which is to be screened) must be made of clay, brick, stone, embossed or pierced concrete block, or other decorative masonry material.
 - d. Barrier fences containing barbed wire, electric charges or sharp materials at the top of a fence or screen less than six feet (6) in height are prohibited.
7. A vegetative planting shall be established and maintained, outside the screen or buffer to enable it to blend into the area. The vegetative planting shall consist of a mixture of coniferous trees of differing types which have a minimum height of six foot each at the time of planting, which will obscure the operational area. A naturally vegetated site having tree growth which obscures the man made buffer shall be exempted from the planting requirements, or if the facility is located in an area where adjacent industrial and warehousing obscures the view of the facility. The decision as to whether or not the view is obscured shall be made by the Charlevoix County Planning Commission.



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8. The portion of the property used for the "transfer station operational area" shall be set back a minimum of five hundred feet from any existing residence at the time the transfer station permit is applied for, provided the transfer station will not operate outside the hours of 7:00 AM to 5:00 PM Monday through Friday and 7:00 AM to 1:00 PM on Saturdays. A transfer station which operates beyond those hours shall have the "operational area" set back a minimum of one thousand feet from any existing residence on the date the permit application is submitted.

The operational area upon which a transfer station is located, shall be set back the following distances:

Type of zoning	Setbacks	
	Setback Distance from lot Lines or Road Right-of-Way	From nearest residence
Industrial & Warehousing	30 feet	500 feet *
Commercial	50 feet	500 feet *
Residential	200 feet	500 feet *
Agricultural	150 feet	500 feet *

Provided it only operates within hours prescribed above, otherwise 1,000 feet.

Driveways to and from the road and the "operational area" shall be set back a minimum of 100 feet from any property line other than the front lot line. Driveways shall be located in such a manner that the on site vegetation and curvature of the driveway will result in the operational area not being visible from the road serving the site.

Distances shall be determined based upon a straight-line measurement from the edge of the "Operational Area". A "Transfer Station Operational Area" or "Operational Area" is defined as the building or structure that encloses or covers the Transfer Station; the storage, staging and parking areas for Transfer Station equipment and vehicles unloading or waiting to unload materials; employee and visitor parking areas; areas where holding tanks are located; office and accessory buildings; areas where weights or scales are located; and any other portion of the property that is occupied or used for the operation of the facility, with the exception of landscaped and/or setback areas and the driveway used to access the facility from the public roadway.

SOLID WASTE FACILITY REVIEW PROCESS

If Charlevoix County can demonstrate the ability to ensure disposal of all solid waste generated for the next ten (10) or more years, the county will not be required to site additional disposal facilities. The County Planning Commission may review proposals for Type III Monofills.

The following process shall be followed by any party proposing to locate a Type III Landfill, Type A Transfer Station, Type B Transfer Stations Requiring a License, or any Solid Waste Processing Plants within Charlevoix County.

PURPOSE

The purpose of this review is to ensure that all solid waste Disposal Facilities are located in accord with and meet the condition of the Charlevoix County Solid Waste Management Plan. The definition of Disposal Facility is "a Solid Waste Transfer Facility, Incinerator, Sanitary Landfill, Processing Plant, or other solid waste handling facility utilized in the disposal of solid waste".

The purpose of this review is not to enable or allow Charlevoix County to design any Disposal Facility. Rather, it is the intent of Charlevoix County to provide for a mechanism by which the Charlevoix County Planning Commission can review and determine if a proposed Disposal Facility is in compliance with the siting criteria. This compliance will be determined by reviewing the Plan to determine if the facility is allowed. If the Disposal Facility is provided for, or allowed in the plan, a determination will be made as to whether the facility meets the requirements of this Plan as contained in the siting criteria.

PLAN REVIEW

The Planning Commission upon review of the proposed Disposal Facility (both facility type and geographic location) shall approve or reject the proposed facility within sixty (60) days of the first meeting at which the proposal is accepted as being administratively correct. 

Charlevoix County Planning Commission shall issue a letter to the applicant and to the Michigan Department of Environmental Quality stating the proposed Disposal Facility is in compliance with the Plan should the Planning Commission determine the proposed Disposal Facility meets the following:

1. The proposed Disposal Facility is provided for or allowed in the Plan,
2. The proposed facility meets the locational requirements of the Plan.

APPLICATION FOR DISPOSAL FACILITY REVIEW

A. An application package for a review shall be submitted to the County Planning Department a minimum of fifteen (15) days prior to a Planning Commission meeting. This application package shall consist of: 

1. Three (3) copies of the application containing the following:
 - a. The applicant's name, address and telephone number in full.
 - b. A signed statement that the applicant is the owner of the property or officially acting on the owner's behalf.
 - c. The name and address of the owner(s) of record if the applicant is not the owner of record (or firm or corporation having a legal or equitable interest in the land) and the signature of the owner(s)

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- d. The address, parcel number and legal description of the property.
 - e. The total acreage of the project.
 - f. Disposal Facility description.
2. Six (6) copies of area and site maps (accurate drawings to a scale appropriate for the area and the type of facility proposed). The Planning Department Staff shall provide guidance regarding scale of the maps. If multiple sheets are used, each shall be labeled and the preparer identified. The maps shall depict the following:
- a. North arrow, scale and date of original submittal and last revision.
 - b. Location of proposed and/or existing property lines, dimensions, legal descriptions, setback lines as required by the Plan and local ordinances as specified in the plan in effect (which do not conflict with Part 115 of the Natural Resources and Environmental Protection Act, Public Act 451 of 1994, as amended), monument locations as well as the location of current land uses, and existing structures on and uses of the subject parcel and neighboring parcels which fall within the siting criteria area of influence. Siting Criteria Area of Influence shall be defined as that area within which disposal facilities must maintain a buffer or setback (i.e. a ten thousand feet setback from runways at airports licensed by the Michigan Aeronautics Commission, lakes, wetlands, homes, etc).
 - c. Location and elevations of known surface and groundwater bodies, including county drains and man-made surface drainage ways, floodplains and wetlands.
 - d. Existing and proposed elevations and contours of the site upon which the facility is to be located.
 - e. Proposed engineering drawings of the site.

Any other information the applicant may wish to supply to insure that the Planning Commission can determine consistency with the Plan.

EXPIRATION OF LETTER OF CONSISTENCY

A project designation shall automatically expire after forty-eight (48) months, following the date at which the Planning Commission adopted a resolution finding the proposed Disposal Facility to be consistent with the plan, should the applicant not obtain a construction permit from the Michigan Department of Environmental Quality during that time, unless an application for a permit is pending at the time of expiration.

RENEWAL

To avoid automatic expiration, the applicant having received a Letter of Consistency may request a renewal prior to its expiration date. Renewal shall be by formal action of the Planning Commission. Renewal requests shall be filed at least fifteen (15) days prior to the scheduled meeting date of the Planning Commission. Should the Planning Commission not take action to renew the Letter of Consistency during that fifteen (15) day time period or at the next regularly scheduled Planning Commission meeting at which a quorum is present, the renewal shall not be granted. Renewals shall be for a period not to exceed 24 months.

FEES

Fees for Proposed Disposal Facility review shall be determined by the Planning Commission but in no case shall they exceed ten thousand (\$10,000.00) dollars.

SOLID WASTE MANAGEMENT COMPONENT

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

Charlevoix County has relied upon the private sector for addressing the bulk of the solid waste needs in the past, and that will in all probability in the future.

The three areas the private sector has not dealt with adequately are in the areas of recycling, composting and disposal competition.

Recycling has been attempted by numerous waste collection companies in the past, but has not been continued over time, due to the fluctuation in markets and low participation rates. With our current system of waste collection, it is not economically feasible for any one collection company to offer curbside collection of recyclables when the company is only serving a portion of the collection market in a community. In the rural areas of the county, the economics are not presently available to offer curbside collection, even if one hauler serviced a large area, due to the small volume that would be available from the small customer base.

The bulk of the waste suitable for composting is generated within the three cities. Each of the cities does offer leaf collection during limited times of the year. As a result, large quantities of yard waste are not available for use in commercial composting.

With numerous mergers in the solid waste industry, the number of landfills has not changed. What has changed is the number of landfills owned by competing companies. At one time during this planning process, wastes from Charlevoix County were being disposed of in landfills owned by 4 different companies, with the consolidation in the industry three of the landfills ended up in the ownership of one company, which may result in higher rates due to a decrease in the level of competition.

The currently existing Type II Landfill in Charlevoix County, due to capacity concerns by the owner, excluded waste from entering that facility by competing hauling companies.

As a result of the shortfalls outlined above, the following major steps, or actions, are being recommended as key components in this solid waste plan.

Recycling - Charlevoix County will become pro-active in establishing a drop-off recycling program, that is well publicized, with sites established in Charlevoix and Boyne City. In addition, users of these facilities will be surveyed periodically to determine the need for additional drop-off locations over time.

This countywide recycling program will be funded by one, or more, of the following methods.

- Voted Millage
- Surcharge on waste generated in the County.
- \$2.00 charge per month on residential properties.

Cities, townships, and the Villages will be encouraged to enter into agreements as appropriate, to cooperate and coordinate their composting efforts, to insure that yard wastes and other materials are kept out of landfills, and used in a useful and productive manner.

To address the issue of competition in the waste industry, this plan encourages multiple haulers, and makes provisions for an unlimited number of transfer stations, provided they comply with the siting criteria included as a part of this plan. This will allow for each company, as well as the municipalities in the county, to develop transfer stations, as they believe are appropriate.

With three haulers currently operating within the county, sufficient waste does not exist to support 3 Type III Landfills within the county. At any time, the owner of a landfill could close that facility to their competition, thus effectively putting the competition at a great disadvantage. To ensure that a "level playing field" exists for all haulers, this plan provides for all new landfill constructed in the county to service more than one waste generator, to be owned and operated by Charlevoix County. At such time as Charlevoix County constructs a landfill, haulers will have a choice of using that facility, or landfills in other counties.

IDENTIFICATION OF RESPONSIBLE PARTIES

The following entities within the County will have management responsibilities over each of the following listed portions of the Plan.

Resource Conservation:

- Source or Waste Reduction - County Board of Commissioners and Local Units of Government.
- Product Reuse - County Board of Commissioners and Local Units of Government.
- Reduced Material Volume - County Board of Commissioners and Local Units of Government.
- Increased Product Lifetime - County Board of Commissioners and Local Units of Government.
- Decreased Consumption - County Board of Commissioners and Local Units of Government.

Resource Recovery Programs:

- Composting – Boyne City, City of Charlevoix, City of East Jordan, and Beaver Island
- Recycling - County Board of Commissioners in conjunction with local units of government, and private waste generators and haulers.
- Energy Production - None.

Volume Reduction Techniques:

Collection Processes: Private enterprise.

Transportation: Private enterprise.

Disposal Areas:

Processing Plants - Private enterprise.

Incineration - None.

Transfer Stations - Local units of government and private enterprise.

Sanitary Landfills - Charlevoix County owned landfills located in, and open for use by the general public in Charlevoix County. Private enterprise for monofills located within the County provided the monofill is owned and operated by the company generating the waste disposed of in the monofill.

Ultimate Disposal Area Uses: To be determined by the facility owner(s).

Local Responsibility for Plan Update Monitoring & Enforcement: Charlevoix County Board of Commissioners and Charlevoix County Planning Commission.

Educational and Informational Programs: County Planning Commission and Planning Department. Contacts will be made with MSU Extension, Water and Air Team Charlevoix (WATCH), and schools within the county to encourage them to incorporate material into their education curriculum.

Documentation of acceptance of responsibilities is contained in Appendix D.

LOCAL ORDINANCES AND REGULATIONS AFFECTING SOLID WASTE DISPOSAL

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

1. Section 11538.(8) and rule 710 (3) of Part 115 of P.A. 451 of 1994, as amended, prohibits enforcement of all County and local ordinances and regulations pertaining to solid waste disposal areas unless explicitly included in an approved Solid Waste Management Plan. Local regulations and ordinances intended to be part of this Plan must be specified below and the manner in which they will be applied described.
2. This Plan recognizes and incorporates as enforceable the following specific provisions based on existing zoning ordinances:
- X 3. This Plan authorizes adoption and implementation of local regulations governing the following subjects by the indicated units of government without further authorization from or amendment to the Plan.
 - A) County Ordinance providing for a surcharge on waste generated within the County, to offset the cost of a countywide recycling and/or household hazardous waste collection program.
 - B) County ordinance dealing with littering.
 - C) Ordinance regulating the siting, screening and hours of operation of landfills, and transfer stations in conformance with the requirements contained within the solid waste plan. 

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ENFORCEMENT

Solid Waste Plan

Possible enforcement of this plan include waste being imported or exported, waste haulers, landfills, and/or transfer stations not charging, or passing on, to the appropriate agency solid waste surcharge funds collected for recycling.

Other violations of this plan, such as transfer stations violating the hours of operation, could result in the need for enforcement of issues which are not specifically addressed in the Solid Waste System Components listed below.

Should violations of this Solid Waste Plan occur, the Charlevoix County Board of Commissioners and the Michigan Department of Environmental Quality, shall be the parties responsible for the enforcement of this plan.

Any person, company, or organization that believes a violation of this plan is occurring, should contact the County, or the Department of Environmental Quality, to inform them of alleged violations, so that the necessary investigation can be completed and enforcement action begun, if warranted, to remedy the violation.

Solid Waste is handled in a number of different methods through the process of being created, transported, and ultimately disposed of at a sanitary landfill.

Waste is generated at the residential, commercial, and industrial levels. Problems can result at any point in the process between being created and being landfilled. The following identifies the problems that can occur throughout the process, as well as identify agencies that have enforcement responsibilities.

Littering

Littering is characterized by people discarding small amounts of waste materials as they walk down the street or as they drive in their vehicles. This can vary from discarding gum wrappers to fast food wrappers, as well as beverage containers.

Enforcement Options - Tickets and fines by the law enforcement officials. It is possible for citizens to file complaints with local law enforcement officials, should they witness littering. Parties that can be held responsible include the person actually littering, the parent or legal guardian (if the party littering is a minor) as well as the person driving the vehicle if it occurs from a motor vehicle.

Agencies that can enforce the littering laws currently in effect include the following:

Local Ordinance Enforcement Officers
City Police Departments
Charlevoix County Sheriff's Department
Michigan State Police
Michigan Department of Natural Resources (Conservation Officers)

Illegal Storage and/or Dumping

Illegal dumping consists of a wider range of activities than littering. Dumping ranges from the improper disposal of chemicals in floor drains, on driveways, etc. to the dumping of mattresses, refrigerators, construction and demolition wastes on one's own property, or the property of others, for those waste materials and products that are required by law to be disposed of in a specific manner.

Enforcement Options - Storage of wastes on one's own property varies based upon the type of materials and a legal determination as to whether the materials are being disposed of, or stored. Disposal of materials that are generated on-site, or are generated by a non-residential use, or pose a threat to ground or surface waters, are in violation of state law

as well as the county sanitary code (possible blight, junk or zoning ordinances in some communities in the county). State law does allow for residential garbage to be disposed of upon the property from which it was generated, provided the disposal does not create a public health risk or result in environmental contamination. Storage of materials classified as being hazardous and/or toxic (in "large quantities") is regulated by both state and federal law. Storage or disposal of wastes which tend to attract mice, rats and similar types of vermin is subject to regulation by the District and State Health Departments.

Disposal of wastes upon the property of others from which the property owner does not have permission, would be treated as a littering offense with the possibility of other, more severe penalties coming to bear, dependant upon the specific offense and the type of materials disposed of.

Disposal of materials in a landfill which is not licensed or permitted to handle that specific type of waste, is in violation of state law. Examples include disposing of regulated quantities of hazardous and/or toxic wastes in a Type II or III Landfill, disposal of medical waste in a Type II or III Landfill or disposal of grass, leaves and other yard wastes in any landfill as a result of a statewide ban on landfilling of yard wastes. Material which is taken from one county to a facility in another county and for which the solid waste management plan of each county does not recognize the movement of waste between the two counties, is in violation of the county solid waste management plan, as well as state law.

Agencies that can enforce the above listed storage and illegal dumping concerns include the following:

- Local Ordinance Enforcement Officers
- City Police Departments
- Charlevoix County Sheriff's Department
- Northwest Michigan Community Health Agency
- Michigan State Police
- Michigan Department of Natural Resources (conservation officers)
- Michigan Department of Environmental Quality
- U.S. Environmental Protection Agency

Waste Transportation

Transporting waste that is not properly secured can result in wastes falling out of the vehicle or trailer, which would be subject to the penalties for either littering or transporting an unsecured load. A secondary issue regarding the transportation of waste relates to the vehicle being over the prescribed weight limits for the routes which the vehicle is traveling. Seasonal weight restrictions during the spring thaw tends to greatly increase this problem, as many waste collection vehicles manufactured in the past are in violation of the seasonal weight restrictions even when empty.

Agencies that can enforce the transportation related laws on the books include the following:

- Local Ordinance Enforcement Officers
- City Police Departments
- Charlevoix County Sheriff's Department
- Michigan State Police
- Michigan Department of Natural Resources (conservation officers)

Landfill Disposal

Presuming that waste has been properly stored and then is taken to a sanitary landfill for disposal, violation of state and local ordinances can still result. State law regulates the types of materials that can be disposed of at landfills based upon the classification of each respective landfill. Type III landfills are generally allowed to accept building and demolition wastes, broken concrete and other materials which the State of Michigan has determined to be "inert" materials. Type II

Landfills can accept a wide range of materials including general household, commercial and industrial wastes. Some materials such as yard wastes are banned from being disposed of in landfills because they consume valuable landfill space and can be easily composted.

Waste that is taken to the correct type of landfill for disposal is but one of many issues regarding the correct disposal of solid wastes. The waste may be in violation of state or local laws and/or ordinances, if the waste is from a county that is not authorized to export waste and going to a county which is not authorized to accept the waste from the point of origin. This authorization of waste movement must be permitted in the County Solid Waste Management Plans for both counties at a minimum and may be subject to other conditions as well.

Agencies that can enforce the transportation related laws on the books include the following:

- Local Ordinance Enforcement Officers
- Northwest Michigan Community Health Agency
- Michigan State Police
- Michigan Department of Natural Resources (Conservation Officers)
- Michigan Department of Environmental Quality
- U.S. Environmental Protection Agency

Landfill Operational Issues

Landfills must contain wastes on site (prevent the blowing and drifting of waste materials). This is generally done through covering the waste materials on a timely basis, with the requirement that all wastes be buried by six inches of cover at the end of every working day. Other operational issues include ensuring that the facility is operated in compliance with Part 115 of PA 451 of 1994, as amended (solid waste laws).

Agencies that can enforce landfill operations include the following:

- Local Ordinance Enforcement Officer
(if a local ordinance exists that regulates the operational characteristics of landfill, including issues such as hours of operation.)

- Charlevoix County Sheriff's Department
- Northwest Michigan Community Health Agency
- Michigan State Police
- Michigan Department of Natural Resources (Conservation Officers)
- Michigan Department of Environmental Quality
- U.S. Environmental Protection Agency

As is indicated above, a number of organizations exist that have the ability to regulate not only the individual that generates waste but also those that transport and/or dispose of the wastes. It certainly is possible to develop a county level ordinance that would allow for all types of enforcement to be undertaken at the county level by one person (possible title: environmental enforcement officer). This ordinance would be adopted by the Charlevoix County Board of Commissioners with the ordinance specifying the office or agency responsible for administering and enforcing the ordinance.

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CAPACITY CERTIFICATIONS



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

XX _____ This County has more than ten years capacity identified in this Plan and an annual certification process is not included in this Plan.

_____ Ten-years of disposal capacity has not been identified in this Plan. The County will annually submit capacity certifications to the DEQ by June 30 of each year on the form provided by DEQ. The County's process for determination of annual capacity and submission of the County's capacity certification is as follows:

APPENDICES

APPENDIX A

ADDITIONAL INFORMATION REGARDING THE SELECTED SYSTEM

EVALUATION OF RECYCLING

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

DETAILED FEATURES OF RECYCLING AND COMPOSTING PROGRAMS:

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

In developing program recommendations and timelines for implementation, the following program goals are assumed:

System Performance Goals

1997 Current System: 4% Residential/Commercial/Industrial Recovery Rate

	Total Waste Generation Tons/yr**	Tons Recycled	Tons Composted	Total Recovery	Recovery Rate	Total Tons Disposed
Residential	11,857	190	385	575	5%	11,282
Combined C/I	22,145	762		762	3%	21,383
Special*	81,000	19,400		19,400		61,600
TOTALS	115,002	20,352	385	20,737	18%	94,265

* sand, slag, other debris from East Jordan Iron Works (EJIW)

Year 2003: 10% Recovery Rate (excluding EJIW)

	Total Waste Generation Tons/yr**	Tons Recycled	Tons Composted	Total Recovery	Recovery Rate	Total Tons Disposed
Residential	13,297	810	600	1,410	10.6%	11,887
Combined C/I	23,602	2,360		2,360	10%	21,241
TOTALS	36,898	3,170	600	3,770	10%	33,128

Special (EJIW)	81,000	19,400				61,600
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Year 2008: 25% Recovery Rate (excluding EJIW)

	Total Waste Generation Tons/yr**	Tons Recycled	Tons Composted	Total Recovery	Recovery Rate	Total Tons Disposed
Residential	13,784	2,475	1,100	3,575	25.9%	10,209
Combined C/I	25,095	6,274		6,274	25%	18,821
TOTALS	38,879	8,749	1,100	9,849	25%	29,031

Special (EJIW)	81,000	19,400		19,400		61,600
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Program Recovery Estimates (tons per year)

	1998	2003	2008
Drop-off system	170	750	1575
Curbside recycling	20	60	900
Commercial recycling	762	2,360	6,274
Yard waste	385	600	1100
Total Recovery	1,480	3,770	9,849

Specific programs are described here which will help Charlevoix County reach the target levels of recovery by the year 2008. Key features of the system include:

- Clean Community Program: emphasis on education, community organizing activities and special programs such as household hazardous waste and agriculture waste collection.
- Drop-off Recycling: expansion of the current system, including additional sites, more convenient access, and assured access for all County residents and small businesses; a greater range of recyclable materials will be accepted at one permanent flagship site, including eventually construction and demolition material (C&D).
- Curbside Recycling: Begins with subscription recycling and expanded by year 2003 to include contracted collection for all households within a designated curbside district.
- Yard Waste Collection: Expansion of drop-off opportunities and fall leaf collection in municipalities.
- Commercial Recycling: Expanded drop-off and aggressive collection opportunities for corrugated and mixed office paper.
- Waste Transfer: Consideration of waste transfer capabilities may become desirable to provide greater waste disposal options.
- System Participation Incentives: Pay-as-You-Throw (PAYT) programs, aggressive public education and other incentives will help ensure full participation in recovery

The following briefly describes the processes used or to be used to select the equipment and locations of the recycling and composting programs included in the Selected System. Difficulties encountered during past selection processes are also summarized along with how those problems were addressed:

Equipment Selection

Existing Programs:

Semi trailer roll-offs, 10 yard dumpsters, and Gaylord boxes are currently used at existing recycling locations in Boyne Valley Township, Melrose Township, East Jordan, and at the Beaver Island Transfer Station.

Proposed Programs:

Efforts will be undertaken by the County Board of Commissioners to standardize equipment at all existing and future recycling drop-off location after a determination as to what equipment will be compatible, with the selected providers equipment.

Site Availability & Selection

Existing Programs:

Current locations will continue to be used for both the recycling and composting programs subject to the parties owning the particular sites.

Proposed Programs:

Glens Markets staff has indicated a willingness to serve as the location for recycling drop-off sites in Charlevoix and Boyne City, provided approvals are obtained from the property owner in Charlevoix and both the cities of Boyne City and Charlevoix, to insure compliance with local zoning. Additional sites will be explored as the need for larger or additional sites.

Composting Operating Parameters:

The following identifies some of the operating parameters which are to be used or are planned to be used to monitor the composting programs.

Existing Programs:

<u>Program Name:</u>	<u>pH Range</u>	<u>Heat Range</u>	<u>Final Specifications</u>
Boyne City	5.0 – 8.5	140 – 160 degrees	Material capable of producing plant growth without the need for fertilizers or other additives and contains less than 2% of contaminants.
Charlevoix	same as above		
East Jordan	same as above		
Beaver Island	same as above		

Proposed Programs:

No new composting programs are proposed, this plan advocates the expansion of these programs at the current sites. This expansion will take place through a more aggressive collection program and by opening these site to additional communities.

COORDINATION EFFORTS:

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

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

The Charlevoix Board of Commissioners will coordinate recycling efforts with those communities that currently operate recycling programs to ensure that the new sites blend in with those currently in existence. In addition, the County Board of Commissioners will be responsible for the development of processing and marketing agreements. The County Board will work with the communities in the County as well as the private recycling and/or waste management firms in developing and implementing the selected short and long-term alternative.

Program Descriptions/Estimated Costs/Timeline

These system options assume certain organizational and management variables such as service provider roles, in order to estimate costs. However, long-term capital and operating funding, intergovernmental arrangements and other organizational and management roles must be determined by the County Board of Commissioners after more in-depth research prior to implementation. It must also be noted that many of the costs which are indicated below are not new or additional costs. They are the total estimated costs, many of which are currently being incurred.

Clean Community:

Program Description	Estimated Costs Per Year	Timeline
Solid waste collection services: provided to all households and businesses in the County. Illegal dumping and litter would be policed with enforcement of violations.	Status quo (residents contract with service provider, or township/municipality provides collection)	1998-2008
Spring/fall cleanup days: Municipalities would provide annual clean-up programs with scavenging/trading/reuse encouraged and recycling of as many materials left as possible.	Dependent on individual community programs	1998-2008
Household hazardous waste collection services: Collection arranged four times per year at a temporary site, with services provided by private vendor.	\$14,400; assumes 800 participants @ \$18 per use and hauler assumes site liability	1998-2008
Adopt a "_____" programs would be organized with volunteers and business/service group sponsorship for periodic cleaning of roadsides, streambanks, lakeshores, parks and forests.	Largely based on volunteer efforts and intergovernmental cooperation	1998-2008

Recycling Incentives:

Program Description	Estimated Costs Per Year	Timeline
Promotion and Education: a range of outreach efforts would support all system programs, including recycling, composting, household hazardous waste collection and businesses waste reduction; county-wide mailings (twice per year); radio ads, newspaper ads, presentations and public displays are recommended	\$20-\$40,000 (\$2-\$4 per household per year), with cost escalating as new programs are added	1998-2008
Pay as You Throw (PAYT) residents pay for solid waste collection depending on the volume they put at curb, including option for pay by the bag	Approximately \$1.50 per bag (paid by resident); other rates for cart service	1999-2008

Residential Recycling:

Program Description	Estimated Costs Per Year	Timeline
<p>Expanded Drop-off Sites: existing drop-off sites in East Jordan, Beaver Island, Melrose Twp., Boyne Valley and the Cedar Ridge Landfill would be improved and expanded, and sites added in Charlevoix, Boyne City; acceptable materials and collection methods would be consistent between all sites which would be open to all County residents and small businesses; sites would be open several days per week and would consist of roll-off containers and OCC-only dumpsters</p> <p>Recovery Estimate: 750 tons/year</p>	<p>Servicing: \$100 per pull x 300 pulls per year (two containers per site x 7 sites) = \$30,000/yr</p> <p>Processing: \$35/ton x 750 tons = \$26,250; could be reduced through OCC only dumpster servicing at potentially \$0 cost</p> <p>Capital: \$72,000 (16 30-yd-roll-off containers, includes 2 extras at \$4,500 ea.); site improvements (fencing, signage, additional)</p>	<p>1998-2003</p>
<p>Expanded Drop-off Sites: existing drop-off sites in Beaver Island, Melrose Twp., Boyne Valley, the Cedar Ridge Landfill and East Jordan would become permanent, 24-hour-per-day sites; additional site in the state park and Hays or Bay Twp. ; more materials added</p> <p>Recovery Estimate: 1050 tons/year</p>	<p>Servicing: \$100 per pull x 420 pulls per year = \$42,000/yr (assumes 2.5 tons per pull)</p> <p>Processing: \$35/ton x 1050 tons = \$36,750; could be reduced through OCC only dumpster servicing at potentially \$0 cost</p> <p>Capital: \$18,000 (4 30-yd-roll-off containers at \$4,500 ea.); plus site improvements (fencing, signage)</p>	<p>2003-2008</p>
<p>"Super" Drop-offs (flagship stations): Boyne City and Charlevoix become permanent, flagship sites with some staffing, added materials such as batteries, textiles, construction and demolition (C&D)</p> <p>Recovery Estimate: 525 tons/year; C&D could add an additional 1,000 tons per year</p>	<p>Servicing: \$100 per pull x 525 pulls per year = \$52,500/yr (assumes 2.5 tons per pull)</p> <p>Processing: \$35/ton x 525 tons = \$18,375; could be reduced through OCC only dumpster servicing at potentially \$0 cost</p> <p>Capital: 8 roll-offs @\$4,500 ea.</p> <p>Staffing/cleanup: \$10-\$30,000 per site</p>	<p>2003-2008</p>
<p>Subscription Curbside Recycling: residents in a more urban district would be urged to subscribe for curbside recycling</p> <p>Recovery Estimate: 60 tons per year (assumes 300 households participating)</p>	<p>\$6/hh/month (paid by residents)</p>	<p>1998-2003</p>
<p>Contracted Curbside Recycling: residents in a designated curbside district would receive weekly curbside recycling under a coordinated contract bid</p> <p>Recovery Estimate: 900 tons per year (assumes 4,000 households participating)</p>	<p>\$2.50/hh/month; blended with solid waste bill, water bill or paid by municipality</p>	<p>1998-2003</p>

Yard Waste Recovery:

Program Description	Estimated Costs / Year	Timeline
Yard Waste Drop-off Sites: add yard waste collection bins at three recycling drop-off sites Recovery Estimate: 300 tons/year	Servicing: \$3,000/yr	1998-2008
Backyard Composting: Composting bins and mulching mower blades would be made available at low cost to residents. Education would focus on alternatives to collecting organic wastes. Target 4000 households Recovery Estimate: 200 tons/year	Estimated cost of \$4,000 per year	1998-2008
Fall leaf collection: larger municipalities (Charlevoix, Boyne City, East Jordan, Beaver Island) would continue fall leaf collection; other municipalities including Boyne Falls would be added. Recovery Estimate: 600 tons/year	Servicing: \$30,000/yr; difficult to quantify based on existing municipal equipment (loaders, dump trucks)	1998-2008
Alternative Seasonal Collection System: residents could purchase designated special paper yard waste bags (\$1 to \$2 ea) which would allow contractor or municipal crew to pick up yard debris weekly during the growing season; this option would require development of a low-technology compost site equipped with a front loader to turn piles and break up bags; a screener could be rented once a year to process/prepare finished compost	\$1-\$2/bag to cover collection costs	

Commercial Recycling:

Program Description	Estimated Costs / Year	Timeline
Commercial Corrugated Routes: existing OCC routes currently provided by the waste hauler would be expanded, largely through education efforts. Individual businesses would contract directly for this service, and assume that they would pay less for OCC pickup than trash pickup. Recovery Estimate: 600 tons/yr	\$25,000, assuming a front or rear-packer services larger businesses in county with one route per week Processing costs included	1998-2003
Expanded Commercial OCC/paper routes: development of a service district, with "bundled" contracted service would lure service provider to bid on coordinated route to service multiple businesses with curbside cart, bins, bags and/or other system Recovery Estimate: 2000 tons/year	\$90,000 includes three routes per week; expanded education; includes amortization of containers/bins/bags Processing costs included	2003-2008

Solid Waste Transfer:

Program Description	Estimated Costs / Year	Timeline
Existing waste transfer facilities (Top Rank, East Jordan, Melrose Twp., Boyne Valley, Beaver Island):	not available	1998-2008
Added solid waste drop-offs	Variable	1998-2008
Future waste transfer capabilities as needed		

EVALUATION SUMMARY OF THE SELECTED SYSTEM:

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

ADVANTAGES AND DISADVANTAGES OF THE SELECTED SYSTEM:

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

ADVANTAGES:

1. Builds upon existing solid waste system currently in place.
2. Solid waste services including recycling will be available to all county residents.
3. Household hazardous wastes will be diverted from area landfills.
4. Illegal dumping would be minimized through aggressive enforcement of littering laws.
5. Rapid clean up of illegal dumping to reduce the potential for creation of numerous small dumps.
6. Generators of waste pay for what they generate providing an incentive to reduce the quantities generated.
7. Subscription curbside collection of recyclables would be available in later years of plan.
8. Enhanced opportunities for composts of yard waste by non-city residents.
9. Development of a material recovery facility during the later years of this plan as waste quantities continue to increase.
10. Additional transfer stations being created which will allow for greater opportunities to use competitors disposal facilities to keep rates affordable.
11. Over time a stabilization or reduction in waste collection and disposal costs.
12. With increase usage of transfer stations, ability will exist to divert and recycle construction and demolition materials.

SADVANTAGES:

1. Total costs of collection transportation and recycling or disposal of created wastes will increase over time.
2. No in county material recovery facility for short term.
3. Landfills will predominate as the primary method of final disposal for most wastes generated.
4. Some household hazardous wastes will continue to be disposed of in landfills.

APPENDIX B NON-SELECTED SYSTEMS

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

Charlevoix County evaluated waste management components on a continuum, from a base service level to very aggressive recovery-that was defined by the following level of recovery and complexity of programs:

- A: Basic Waste Collection and Disposal Program
- B: Level 1 Basic Clean Community and Drop-Off Recycling Program
- C: Level 2 Expanded Clean Community and Drop-Off Recycling Program
- D: Level 3 Expanded Clean Community and Curbside Recycling Program
- E: Level 4 Expanded Clean Community and Comprehensive Recycling Program
- F: Level 5 Advanced Recovery Systems

Each major level included a relative service level in the following programs:

I. **Clean Community Programs**

Residential & Commercial Solid Waste Collection at Curb

Spring /Fall Cleanup Days

Illegal Dumping Enforcement

Adopt a "_____" program

Household Hazardous Waste Program

Agricultural and Small Quantity Hazardous Waste Programs

II. **Recycling Incentive Programs**

Education

Promotion

Pay as You Throw (PAYT)

Recycle More

Material Bans

III- Drop-off Residential Recycling Programs

- Mobile Drop-offs - for Sorted Recyclables
- Mobile Drop-offs - for Commingled Recyclables
- Permanent Drop-offs for Sorted Recyclables
- Permanent Drop-offs for Commingled Recyclables

IV: Curbside Residential Recycling Programs

- Curbside Recycling - Sorted
- Curbside Recycling - Commingled
- Co-collection of Separated Recyclables and Solid Waste
- Two or Three Stream "Wet/Dry" Collection
- Co-collection of "Blue Bag" Recyclables and Solid Waste

V: Residential Yard Waste Composting Programs

- Back Yard Composting Bin Distribution Programs
- Mulching Mower Programs
- Yard Waste Drop-off Stations
- Curbside Yard Waste Collection
- Fall Leaf Collection

VI. Commercial Recycling Programs

- Waste Assessment Services
- Drop-off Recycling Services - Sorted
- Drop-off Recycling Services - Commingled
- Commercial Recycling Collection - Sorted
- Commercial Recycling Collection - Commingled

VII- Material Transfer and Processing Programs

- Solid Waste Drop-off Sites
- Solid Waste Drop-off and Recycling

Solid Waste Transfer Stations

Solid Waste Transfer Stations w/Recycling Drop-off and Processing Capabilities

Stand-Alone Recycling Processing Facilities

Construction & Demolition Debris Processing Facility

Mixed Waste Recycling and Compost Processing Facility

VIII: Disposal Programs

Large Solid Waste Landfills in Region

Smaller Solid Waste Landfills Serving Counties

Transfer of Waste Out of Region

Municipal Solid Waste Incineration

In an evaluation of Charlevoix County and its current methods of handling solid wastes, it was found that the county is operating in the range of a modified B program with the desire to move into a modification of the C program during the course of this planning period.

SYSTEM COMPONENTS-

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

COLLECTION PROCESSES:

Mobile Drop-offs - for Sorted Recyclables: The current programs in effect in the county are fixed location drop-off sites. Investigation into mobile drop-off locations in other counties established the benefits of fixed locations.

Co-collection of Separated Recyclables and Solid Waste

Two or Three Stream 'Wet/Dry' Collection

Co-collection of "Blue Bag" Recyclables and Solid Waste

The three above programs require extensive capital current use of landfills and the perception that the recycled material is being landfilled.

PROCESSING-

Stand-Alone Recycling Processing Facilities (investment without providing significant advantages over the Selected System programs. They will also require that all waste be directed onto a tipping and sorting surface which is impractical given the MRF). Sufficient quantities of waste do not exist during the short term portion of this plan to make this option cost effective. During the long-term portion of this plan, it is anticipated that sufficient quantities of recyclable material will be available to justify the establishment of a mini material recovery facility.

Mixed Waste Recycling and Compost Processing Facility: This program requires extensive capital investment without providing significant advantages over the Selected System programs.

DISPOSAL AREAS:

Smaller Solid Waste Landfills Serving Counties: Charlevoix County currently has a Type II landfill. Sufficient capacity exists at other facilities in Northern Michigan at such time as this facility reaches capacity. Additional transfer stations will be constructed throughout the county to allow the use of a multitude of landfills to provide for competition in the disposal of wastes. Should a lack of competition problem arise, this plan contains provisions to allow Charlevoix County to construct and operate a landfill.

Municipal Solid Waste Incineration: Adequate landfill capacity is available. Incineration provides no obvious advantages at significant capital risk.

In selecting a waste management system, Charlevoix County separated the system management and financial considerations from the cost/benefit evaluation of individual programs. Once it was decided that Charlevoix County would target a particular level of waste diversion, that disposal needs could be met, and programs could cost effectively meet the selected goals, an attitude survey was undertaken to determine the desire of residents to recycle as well as how much they are willing to pay and what method will be used to generate those funds. The Charlevoix County Board of Commissioners will be requested to appoint a committee to deal in greater depth and detail with implementing a recycling program.

Charlevoix County will use a combination of the following funding methods to implement this plan:

- User fees
- PA 138
- Voted Millage
- General Fund revenues

INSTITUTIONAL ARRANGEMENTS:

Charlevoix County will continue to examine through the recycling committee the best means of administering a countywide recycling program.

Should the need exist for a county owned landfill, a Department of Public Works will be established to develop and operate this facility.

Those programs that are currently run by municipalities and the private sector will continue to operate in that fashion.

While the Selected System does not specifically provide for other institutional arrangements, it does not prohibit future changes in the institutional arrangements. Examples of arrangements that have been considered but not specifically included are:

- Recyclables processing contracts with neighboring counties
- Shared C&D processing facilities between counties
- Pubic/private ventures
- County/Municipality operated compost site

CAPITAL, OPERATIONAL, AND MAINTENANCE COSTS:

Millages PA 138 and special assessments are considered a viable option as one method of financing future programs.

EVALUATION SUMMARY OF NON-SELECTED SYSTEM:

The non-selected system was evaluated to determine its potential of impacting human health, economics, environmental, transportation, siting and energy resources of the County. In addition, it was reviewed for technical feasibility, and whether it would have public support. The evaluation process is described above.

ADVANTAGES AND DISADVANTAGES OF THE NON-SELECTED SYSTEM:

Each solid waste management system has pros and cons relating to its implementation within the County. Following is a summary of the major advantages and disadvantages for the nonselected system.

Since the Selected System is a combination of the systems evaluated, the Non-Selected system can only be discussed in general terms as the components not selected. Much of this is described on the preceding pages. Charlevoix County has selected components addressing all of the considered program areas.

ADVANTAGES:

1. Some of the rejected programs would have offered the collection and processing of more material types:
 - Mixed Waste Recycling and Compost Processing Facility
 - Two or Three Stream "Wet/Dry" Collection
2. Others would have offered residents more convenient collection:
 - Co-collection of Separated Recyclables and Solid Waste
 - Co-collection of "Blue Bag" Recyclables and Solid Waste
 - Two or Three Stream "Wet/Dry" Collection
3. Others would have freed the County from dependence on out of county landfills:
 - Smaller Solid Waste Landfills Serving Counties
 - Municipal Solid Waste Incineration

DISADVANTAGES:

1. - High cost
 - Mixed Waste Recycling and Compost Processing Facility
 - Two or Three Stream "Wet/Dry" Collection
 - Co-collection of Separated Recyclables and Solid Waste
 - Co-collection of "Blue Bag" Recyclables and Solid Waste
 - Smaller Solid Waste Landfills Serving Counties
 - Municipal Solid Waste Incineration
2. - Not good match to seasonal nature of population:
 - Mixed Waste Recycling and Compost Processing Facility
 - Two or Three Stream "Wet/Dry" Collection
3. Not perceived as acceptable options to public
 - Smaller Solid Waste Landfills Serving Counties
 - Municipal Solid Waste Incineration

Editor

Please publish the attached public hearing notice in your paper which is published on the following dates:

Petoskey News Review	February 11th and March 6th
Charlevoix Courier	February 16th and March 8th
The Citizen	February 16th and March 8th

Please send the bill to the Charlevoix County Planning Department, 301 State Street, Charlevoix, Michigan, 49720. If you have any questions, call Larry Sullivan, Planning Director at 547-7234.

Public Hearing Notice

A public hearing will be held to accept comments from the public regarding the Charlevoix County Draft "Solid Waste Management Plan", a component of the Charlevoix County Comprehensive Plan, on March 13, 2000. This hearing will be held at 7:30 p.m. in the Pine Lake Room of the Charlevoix County Building, 301 State Street, Charlevoix, Michigan, 49720. Written and oral comments will be accepted at this hearing. Written comments will continue to be accepted at the Charlevoix County Planning Department Offices located at 301 State Street, Charlevoix, Michigan, 49720 until noon on Monday, March 20th. Copies of the Draft Solid Waste Management Plan have been provided to each library in the county as well as having been sent to each chief elected official for each township, city and incorporated village within the County. Copies may also be inspected or purchased at the Planning Department at the address listed above.



JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

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INTERNET www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION
PO BOX 30241
LANSING MI 48909-7741

May 3, 2000

Mr. Larry Sullivan
Planning Director
Charlevoix County Planning Department
301 State Street
Charlevoix, Michigan 49720

Dear Mr. Sullivan:

I am writing in response to your letter of April 20, 2000, in which you asked what annual quantities of solid waste Presque Isle would accept from Charlevoix County over the next ten years as well as any conditions governing the movement of that solid waste as outlined in the Presque Isle Solid Waste Management Plan Update (Plan) that the Department of Environmental Quality (DEQ) is currently preparing.

While I cannot provide any specific assurances as to which counties will be authorized to import solid waste in Presque Isle County until the DEQ completes preparations of the Presque Isle Plan, we expect to provide import authorizations for a sufficient number of Northern Michigan counties to ensure a reasonable service area for the Elk Run Landfill. With that proviso in mind, we anticipate that Presque Isle would accept 100 percent of Charlevoix County's annual solid waste disposal needs without any conditions. We will keep your request in mind as we move ahead to develop the Plan. In order to make sure that Charlevoix County waste can go to Presque Isle County for disposal in the event the final Presque Isle Plan authorizes such imports under the terms mentioned above, I suggest that you include authorization in Charlevoix County's Plan for export of its' solid waste to Presque Isle County.

If you have any questions regarding this matter, please contact me at the telephone number below, or by e-mail, at ldziaks@state.mi.us.

Sincerely,

Stan Idziak
Solid Waste Management Unit
Waste Management Division
517-373-4740

cc: Presque Isle County Solid Waste Management File
Charlevoix County Solid Waste Management File



36850 Van Born Rd
P.O. Box 68
Wayne, MI 48184
734-641-3555
734-729-8890 Fax

April 28, 2000

Mr. Larry Sullivan, Planning Director
Charlevoix County Planning Department
County Building
301 State Street
Charlevoix, Michigan 49720

RE: Assurance of Landfill Capacity

Dear Mr. Sullivan,

Republic Services of Michigan hereby acknowledges receipt of your letter dated April 20, 2000, wherein the County requests capacity assurance to meet the needs of the County's updated solid waste plan for the next ten years.

Republic will commit and accept up to 100 percent of the daily and annual volume generated within Charlevoix County at either of the two following facilities: the Whitefeather Landfill, located in Bay County and/or the Elk Run Landfill, located in Presque Isle County. We will commit this capacity for the ten-year planning period commencing upon the date of approval of the updated plan by the MDEQ.

Republic looks forward to assisting the county in planning for its long-term disposal needs. Please feel free to contact us if there is any other means in which we can provide assistance.

Respectfully,


Stephanie Glysson
Director of Governmental Affairs

Cc: Matt Neely, Republic Waste

that his whole business has grown from playing off the greed of the four big companies and he has been with Waste Management and in the garbage business, that is the same. Anyone can buy five trucks but if you can't negotiate a good contract with them, you are out of business. Waste Management charges themselves less than they charge others and justify it by saying they are a high volume business. Emmet County pays less than this County pays, with the same excuse.

that he and Hass couldn't haul to counties that do not have reciprocal agreements with Emmet County.

stated that if one company owns all of the landfills in the area, they may not allow us to have other agreements, they can decide we have to all use Cedar Ridge. From a planning perspective we can make all the decisions we want, but the Waste Companies will be making the decisions to close the landfills they want to.

stated he has spoken with the State of the proposed merger. We have long recognized a market approach with competition. One option the Committee might want to consider is the possibility of establishing a single county or multi-county owned landfill. It is an option that would be to have a landfill owned and operated by a county or counties. This is the case in Montcalm County. Mountmorency-Oscoda has a joint county owned landfill. If you look at the map handed out, you can see the ownership of the landfills in our area. There is a concern that the landfill located in Manistee might be re-acquired by USA Waste.

Waste by rail was mentioned as a possibility. Richardson stated you have to be careful with it in two ways.

Richardson mentioned that about four months ago a gentleman from the Elk Run Landfill put a resolution for the County Board. He had stated the only way you can be protected with waste is to have a county owned facility. A single or multi-county landfill might be an option to consider in the Solid Waste Plan.

Richardson mentioned that perhaps the County should look at county run solid waste collection and franchising of solid waste collection.

Richardson stated that the problem with that is the possibility that if you have only one company in the waste management business, you run the risk of them cutting off non-profitable routes.

Richardson took place on the fact that haulers can be competitive, but with only one landfill you can't do business if the rates get too high. It was stated that there is an extreme amount of power in having control of all of the landfills, this power is underestimated by the public and our government officials. They can do a lot of things when they have all the cards in their hands, and not all of them are good. By the time people realize it, it will be too late.

Richardson mentioned that at multi-county landfills, counties could come up with an agreement that if USA Waste gets out of control, we would go out on our own.

Richardson stated that regulations have a cost, but we have benefited from some of the regulations, such as closing the open dumps. There have been some media concern about Medusa, and the fact that they are not moving fast enough.

Sullivan stated we would not be able to determine how this will affect us tonight, but suggested that the members contact their US Representative and let them know that there are concerns that should be addressed in the anti-trust issue.

Sullivan will get a copy of his letter out to the members so that they can also contact their elected officials.

Sullivan introduced staff from RRSI, Jim Frey, Cathy Semer, and Kerry Sandford, and gave a rundown of the things they will be working on for the next couple of weeks.

- 2) Review of List of Solid Waste Management Program Alternatives, "Solid Waste System Options", and "Selected Solid Waste Management System".

RRSI representatives discussed their tasks in this contract.

Discussion was held on how the amounts are given, such as pounds, yards, etc., and that it is confusing. Compaction affects the weight, yards, etc. It was stated that time is spent weighing trucks, sorting through trash to find out what the density, etc. is. The RRSI representatives said they would be calculating cubic yards of waste.

Sullivan suggested they discuss the options for alternatives. For example residential curbside recyclables was thrown out last meeting, as not being feasible. He mentioned page 2 has options, and suggested as you go from option a to f, the level of sophistication increases, the level of effectiveness can improve, and the dollar cost probably rises.

Ferguson said page 4 maybe, page 5, better yet, 6 is good and page 7 really nice, but probably too expensive for us. She felt the first page should be eliminated because the standards are too low.

She stated that she was looking at advantages and disadvantages and the cost impact, as to what is doable.

Hass stated he has a question on the cost impact. He said what threw him was that granted the cost went up, but was confused as to the savings under F.

RRSI stated the savings are from the diversion. You need to look at the other key figure, the second bullet, at the diversion percentage. It means that when you move your system over to primarily to recovery, you have more diversion.

Ferguson stated she had stayed with the ones that had a 1-3 year date. Sullivan stated you could time the levels, as you progress with the program.

- It was stated that we are just looking at a range now and do not have to give a certain level, but can combine some of them.

Hass stated he did not see E and F as being realistic.

RRSI stated these costs are just estimates, and the costs we will come up with will be based on your own particular assessments. The next level of analysis will deal with the season issue.

rdson stated that some of the disadvantages is that he got a little lost when he stated there is g for the seasonal people. He asked if that happens in some area, because here in the summer people put their bags at the street, as do year around residents. eed at A. B. and C; the summer people have the same service as they are getting right

stated this is a generic description for all counties, but this Committee needs to give us the option for what is occurring in Charlevoix County.

an stated that Charlevoix County has curbside garbage collection throughout the County.

rdson stated he is concerned with the construction and demolition waste, because now it into the landfill.

l stated Emmet is interested in doing something with this type of waste, and there might be options that might open up as a result of the whole regional work. He stated wood waste be ground up, etc., and presents some diversionary options.

ardson stated that if they get a grant in Emmet County, it would be used only for Emmet nty.

l asked if there is a reciprocal agreement with Emmet County.

ivan stated we have an agreement to let them bring waste into the county. As opposed to r (verse County being paid 50 cents per yard for waste taken out of the County, Eveline vnsip is paid 10 cents a yard for accepting it. In terms of waste, limited amounts of waste n Charlevoix County is sent through the Transfer Station in Emmet. He felt it would present roblem if we sent great quantities of waste.

was asked if we could not encourage Emmet to take more of our recyclables.

llivan stated that what happens is there is a widespread conception that you make money on cyclables. What they do to assist in the cost is they have a surcharge on all waste that goes ough the transfer station to help cover the cost of recycling.

ichardson stated that if we send recyclables to Emmet, we would have to pay for it in someway.

ullivan stated that some of the cost at the Transfer Station would go toward their recycling rogram.

Discussion took place on the vertical columns in the research material and how it should be ooked at, and how to fine-tune them.

RSI stated they understood that.

It was stated that since Emmet County charges a surcharge for waste going through the landfill, wh n't Charlevoix County charge a surcharge for Emmet waste going into the landfill, to assist us in our recycling program.

It was stated that Charlevoix County has never considered the landfill an asset.

In the systems options, Hass stated that he felt we were already at A, or maybe beyond it. He suggested B and C would be used for the five-year plan and D for a long-term plan, and did not know if we were ready for E and F.

Discussion took place on the different options and how they differ, and how they would affect our County in the next 20 years. The consultants will give options and the cost for each option. They said the Committee would have to choose the options they feel they want and then determine if there is a way to fund it.

Hass mentioned that Emmet County has a war fund set up, so that they have funds saved up for a rainy day, and Charlevoix County has not done anything. He mentioned Option D contains a transfer station, and maybe we are not ready for it, but we should consider putting away money to fund some of these things in the future.

Richardson stated that in the host agreement Waste Management offered Charlevoix County 25 cents a yard for out of county waste that they are already paying Grand Traverse 50 cents for, and perhaps we should get \$5.00.

Discussion was held on the need to monitor a landfill after closure for thirty years, and whether after that 30 years it would be up to the County to monitor it. If so, the County needs to be putting money away for it now.

Sullivan stated a quarter a yard for out of county waste is nothing. It might be a situation that you look at a surcharge that every yard of waste coming in, no matter where it comes from, to put money away for the future. There is some management options to be discussed at the next few meetings.

Richardson suggested that we not give them the 12 acres right up, but saying that we would give them 12 if they put a transfer station on the front, and after the 12 acres is full, they will operate a transfer station. He stated that at some point, this landfill has to quit, and cannot keep expanding.

Discussion was held as to whether or not Waste Management has to sign a host agreement with us at all, the way the law is written now. In the current legislation we can't, but companies are well accustomed to signing these agreements and paying surcharges, but you have to ask for them. It was mentioned that discussion took place at an Eveline Township Meeting where Waste Management was offering all kinds of things, such as higher surcharges, etc., and that the company would sign the agreement if Eveline Township and the County would allow an expansion for a certain amount of acreage. Pizzurro stated they would sign an agreement that when that part was full, they would cap the landfill.

Don Pizzurro stated that once the County gave them the expansion, the company would not have to play that chip. Everything is up for debate, but they have to be agreed on prior to approval of the expansion.

Richardson stated that the problem is that people have only heard what Waste Management has to say, not what other people in the waste industry think, and to know what goes on in the waste business and what is possible.

It was stated that in the plan you need to allow for surcharges, etc.

Malpass stated that if recycling is done, the company would have to fill the capacity at the landfill, and meet their necessary level of operation, to offset the cost. He stated that capacity at the landfill will not be affected by recycling, because if material is recycled, they will get material from other areas to fill that void.

Sullivan stated that from a large geographic area, recycling could save the need for an additional landfill, but not on a specific landfill, because they will accept the amount they need to make the profit they feel they have to have.

Richardson stated that some times it is easier to add the surcharge on waste than to get residents to pay for recycling. Sullivan stated that he had approached the residents a year ago to let them know that recycling is available, but there is a charge. However, many residents don't want to pay for it.

The only way to get people to cut back on the waste they create, is to make it cheaper to recycle than to put it into landfills.

RRSI stated what they are establishing for the seven counties is the base diversion, base generation and the base disposal in tons, etc., and will then evaluate alternatives and determine their impact on our current practices and the change in cost that will be experienced. They will get back with those figures.

The costs given will be capital costs amortized when the figures are stated.

B, C, and D were the chosen options from the Solid Waste System Options paper, for further study and consideration.

3) Review Regional Analysis of Import/Export Trends (from RRSI).

Staff stated we have not got anything specific methods of authorizing at this time, but suggests that the Plan list counties, and the County Board developing intercounty agreements with these counties. The last time around, there were discussions of cost in terms of waste rate to have a one county landfill, and the Committee decided to let waste come in from Emmet and Antrim, again with the understanding that in the future one of those counties would open up a landfill in their county.

One member indicated he remembered during the last plan development, someone from Emmet stating Emmet County would never have a landfill.

It was stated that because we expected Emmet County to provide a landfill, it should have been in the plan. We need methods of authorizing the import of trash. In the last plan, the method was intercounty agreements.

We might not want the same conditions as we had in the last plan for Emmet County, but if we let you bring your waste in, then we want certain things in return. Those are things we can negotiate, prior to signing the agreements.

Richardson stated that if we cut Emmet off right now, Emmet could haul to Presque Isle, if they had to. Presque Isle can have agreements for what they want before letting it in.

Manistee was a contingency in case we needed it short term, and they could haul here for short term.

It was stated that if Emmet County gets out of having a landfill, they should be real happy to help us out with our recycling. It was stated that they received funding under the auspices that it was going to be a regional facility.

Ferguson asked who would do the negotiating with Emmet for help with the recycling in return for bringing their waste here. She stated it makes a difference in who is doing the talking.

A question was asked what would Emmet do if this County cut them off. The answer was they could go elsewhere.

It was stated that we are doing them a great favor by taking their waste, and if we play hardball with them, and they decide to go elsewhere, we don't care.

Emmet is responsible for a great amount of the waste coming in to Charlevoix, and the landfill would have to take waste from somewhere else, and they will.

RRSI stated they are in a position to talk with Emmet and to see what they want. He stated it is of value to them to bring waste in, and maybe there is something we want from them.

Reciprocal agreements have to be in both of the plans, and have to be enforced, or it is worthless.

RRSI is suggesting that the County look at authorizing more counties in the next plan without any reciprocity. It was felt this would give our county more choices.

Richardson stated that when you have one company owning all the landfills, they could close whichever facility they want to. The county will have no control.

- b) Landfill siting of the proposed expansion was discussed previously and will be addressed by the Planning Commission. Siting criteria for this plan will be reviewed, if we need it, based upon how we fare in our landfill capacity certification.
- c) Annual landfill capacity certification – We do have the capability of not putting in siting criteria if we can demonstrate 10 years of capacity. RRSI has found a landfill life expectancy in this ten county area west of I-75 and a line drawn across from Manistee, Cadillac and Lake City north is approximately 49 years of capacity.

If we look at the facilities in the northeast part of the state, we are up to 52 years of capacity, based on current rates. If solid waste generation increases for the ten counties we are looking at a 40-year capacity, and looking at the northeast portion as well, we are looking at a 42-year capacity.

Sullivan stated that the Solid Waste Plan could allow an expansion, but from a corporate (USA/Waste Management) standpoint, they could say they are closing down the landfill. As long as the capacity is still there, the plan is still good.

Sullivan stated that in the last Plan Emmet stated they would run our waste through their transfer station as long as our County had a reciprocal agreement with the county it was going to. It was

's opinion that we would take care of theirs provided they take care of ours, in negotiating an agreement on our behalf with where ever they are going to take theirs. Emmet County refused.

ed the material on landfill certification was given us to demonstrate for the ten-year annual certification is required.

ivan stated that he contends that we have 66 months of capacity left. He stated that from a perspective, if you were going to demonstrate capacity or indicate disposal capacity in the county, we would want it to be ten years or more. If we are not going to put siting criteria in the plan, we have to demonstrate that we have at least ten years of capacity. Or, in lieu of that we would provide for the siting criteria within the plan. Again, that capacity could be inside the county or outside.

was stated that if we have a reciprocal agreement with Glen's in Leelanau County, they have an estimated life of 126 years. This plan is requiring that the amount of waste proposed to go to a county be listed. The county may have to list several counties in order to insure the number of years of capacity they need.

A question was asked if we have capacity in Charlevoix County for 15 years, and we have a reciprocal agreement with another county, and something happens with their landfill, does our capacity have to be large enough for both counties. The answer was yes, but conditions can be put on it, such as time limit, etc.

llivan asked if the State has a number for capacity in the state.

stated they do not do that analysis, and even if they did, it would be meaningless because waste comes from Indiana, Iowa or Wisconsin.

Enforcement of solid waste plan is continued to the next meeting.

DJOURNMENT.

Moved by Malpass, seconded by Hass, to adjourn at 9:48 p.m. Motion carried.

Charlevoix County Planning Commission

COUNTY BUILDING
CHARLEVOIX, MICHIGAN 49720

TELEPHONE 616 547-7234

CHARLEVOIX COUNTY SOLID WASTE COMMITTEE
APRIL 27, 1998

MINUTES

Call to Order.

Meeting was called to order by Chairperson Johnson, at 7:00 p.m.

Roll Call.

Members present: Ferguson, Kurtz, Malpass, Smith, Patrick, Frykberg, Richardson, Lindberg, Skrzeczkoski, Strahl, Johnson, Rankl, Pizzurro, and Hass.

Also present: Jason, Wieland, Walker, and Sullivan.

Approval of Minutes – There were some mistakes noted on the March 23, 1998 minutes. Staff agreed they had not received the time and review they needed.

A motion was made by Richardson, supported by Ferguson, that the minutes be returned to staff for review and changes, to resolve errors. Motion carried.

Public Comment:

Bob Walker stated he has concerns regarding three committee members having received copies of a property protection agreement, and that by receiving that agreement, they have a conflict of interest and should be replaced on the Committee by members of Watch, Inc. If they are not replaced, they should sign a binding affidavit that states they have not, nor will they sign a property value protection agreement in the future.

Sullivan indicated the three members have stated they have not signed an agreement, and therefore, have no conflict of interest. This would be an appropriate issue for the County Board, and if the County Board wishes to pursue the matter, they are free to do so.

Discussion took place regarding the direction of flow of water from Waste Management property.

Johnson stated that at some point this Committee should go out and look at the proposed area for expansion, perhaps for a meeting, to clear up some of the questions.

Walker stated there is running water at Brock Road, and goes into Nowland Lake.

Richardson stated that the water that runs across Brock Road goes to Adams Lake. Staff stated that we are not dealing with that issue tonight, but he agreed it would be good to go out and see the landfill, and then come back here for the rest of the meeting.

Old Business

Committee Survey

Sullivan reported on the result of an opinion survey previously handed out. To summarize it, the respondents' feelings are that statewide disposal of solid waste is a bigger concern than disposal for our community. Key concerns about solid waste management are to increase recycling and make recycling convenient. Other key concerns are to avoid being targeted for waste disposal from elsewhere in the state, and out of state as well, and providing for public accountability of privately owned disposal sites.

As to who is most qualified to provide solid waste services, the largest response was for private contractors providing services under hauler licensing/franchise arrangements. (A copy of the survey and response summary is available at the Planning Department.)

Sullivan stated he would not suggest we make decisions based only on these answers.

System Alternatives.

Review of System Alternatives. Staff stated we had seen this before in different forms. These 2 alternatives are a result of the discussion at our last meeting, and is a refinement of options A-F, based on what the committee felt was desirable, and achievable.

Clean Community - The committee discussed the differences between Alternative 1 and 2. The major difference was a permanent drop-off location in Alternative #2 for Household Hazardous Waste. With the three cities in the county, it was the consensus that a fixed facility would not be necessary, and that it would be better to have a household hazardous waste collection day in each city once a year for convenience of the county residents.

Recycling Incentives. - The major difference between the alternatives is the potential for banning disposal of certain materials under Alternative #2. The consensus of the committee was that a landfill ban on a county basis would not be effective, or practical. Better to seek a statewide ban on certain materials in the policy statements. Problem arises when no market exists for the materials.

Drop-off Recycling - Committee agrees that the more convenient the drop-off facilities are, the more they would be used. Alternative 1 provides for additional drop-off sites. An agreement would have to be worked out at least short term with an entity having processing facilities, as Charlevoix County would not generate the volumes early on to warrant a full scale processing facility. No conclusions were arrived at regarding what should be recycled. Necessary to have volunteers at drop-off sites to help educate users.

Curbside Residential Recycling - The committee believes that a curbside collection program for recyclables would be expensive and not as effective as drop-off facilities with convenient

hours, due to the number of people needed to use curbside collection of recyclables to make it effective, and this service would be available only in the "urbanized" areas. Consensus is that it would be better to have a drop-off program that is open in every major community on a daily basis.

Residential Yard Waste Composting.

The committee believes that yard waste is being handled well in each of the cities. This was a result of having city staffs that could be assigned the task of collecting and/or operating a compost site. The cities have the equipment to turn the compost piles periodically and they lease Trommel Screen equipment from Traverse City once a year to screen the compost. The three cities contract with Traverse City for the same time to reduce the number of trips, and thus reduce the costs. None of the cities produce more compost than they can use in their public parks and facilities at this time.

The problem with yard waste is the lack of methods to take care of it in the townships. It would be better to have three sites in the county, rather than eight or ten from a management and cost effectiveness standpoint. The committee agreed it would be best to have the material flow to city sites, or be composted at the individual point of generation.

There is a cost to operating compost sites, the question of who pays is either the county assumes the cost of funding a portion of the costs of operating these sites, or each city charges the townships to allow township residents to use the city sites.

Commercial Recycling.

Small volume generators of corrugated cardboard can take the material to either Cedar Ridge Landfill, or Emmet County Transfer Station. Waste Management puts out dumpsters for large volume generators. The major stores bale theirs and back ship it. If recycling drop-offs were located in Boyne City and Charlevoix, businesses could use these drop-off locations. East Jordan already has recycling drop-off available at their transfer station.

Material Transfer and Processing.

At the present time, it would be more effective to use processing facilities in other areas of the state, as opposed to constructing one in Charlevoix County. As the volumes recovered increases, it may be worthwhile to open a material processing facility in this county. If we start out only accepting a limited number of materials at our drop-off sites, it would not be necessary to utilize a facility which can handle commingled fibers.

Waste Disposal

A Type II Landfill currently exists in the county, which has a 2-3 year capacity. The landfill owner has requested an expansion under the siting criteria, which could provide for an additional 10-12 years of life, based upon current volumes. The Planning Commission found that the expansion did not meet the siting criteria. Possible options include the following:

1. Expansion of existing facility.

2. A new facility elsewhere in the county.
3. Use of out of county landfill(s).

The status of Cedar Ridge Landfill could change as a result of the proposed merger between Waste Management and USA Waste.

1. Rates could dramatically increase.
2. The merged company could be forced to sell the landfill.
3. The merged company could close the landfill due to an overabundance of capacity in northern Michigan.

Jamie Hass indicated the current plan allows for transfer stations in the East Jordan-Ironton area, at the landfill and along US-131. Without liberal provisions for transfer stations, his business is in jeopardy if the Cedar Ridge Landfill closes, or if the rates are greatly increased, as his Company does not have the ability to haul long distances, as does Top Rank Disposal, which has a transfer station.

The Committee concluded that liberal provisions should be included in the plan for the siting of transfer stations.

Operation of Recyclable Drop-off Locations.

Pizzurro stated that drop-off sites are operated on a community by community basis.

Frykberg indicated that to get a good program operating, it has to be a countywide program with uniform equipment.

The consensus of the committee is for the county to participate in a countywide recycling program, but leave composting programming up to the townships and cities to work out. Manned recycling drop-offs at grocery stores in each of the three cities with limited hours, was felt to be the best approach. If volunteers manned the sites to provide some education and assistance to drop-off site users, this would give a boost to recycling efforts in the county.

Composting, on the other hand, should be continued by the cities, with the townships being allowed to participate (with township funding in addition to city funding).

New Business.

Waste Generation and Recycling Rates.

Sullivan reviewed the revised rates and would get back with RRSI regarding errors in the material presented.

Landfill Capacity Strategy.

Discussion took place on the waste from Wolverine and Big Rock and how much of that will go to the landfill. This waste could have an impact, but we don't know how much of an impact. The same can be said for the East Jordan Iron Works, if they can find a use for their foundry sands, they would be kept out of the landfill. Malpass stated that they were hoping that Medusa

could use their product that they landfill at the present time, but this has not been worked out as yet.

Hass raised the question as to when we would be tackling the question of whether there is to be an expansion of the Cedar Ridge Landfill.

Discussion took place on timing for the decision on the expansion of the landfill, and what has to be done first. The plan has to be completed whether there is an expansion or not.

Hass stated that if the State approves the expansion, that's it. But if they don't, what is our plan?

Pizzurro stated his belief that the committee should address the expansion issue, rather than wait for a response from the State of Michigan.

Richardson stated that if the new owner decides to close the facility, we still have to have a plan on what to do with our waste.

Hass stated we have to decide if we want a mechanism in our plan to allow for expansion of landfills, or not. He stated he did not want to debate if Cedar Ridge is a good facility or not, but does want us to have a siting mechanism in our plan.

Sullivan stated you have to show in your plan the ability to dispose of your waste somewhere, not necessarily in your county. Sullivan stated that Emmet, Antrim, Kalkaska, Cheboygan, and Otsego Counties all do not have a landfill in their county.

Richardson explained there is a difference between siting criteria and siting mechanism, which He proceeded to read from the Act. "The Solid Waste Management Plan shall include an interim siting mechanism and an annual certification process, as described in the subsections. In calculating your capacity of the identified disposal areas, to determine if the disposal needs are met for the entire required planning period. An interim siting mechanism shall include both the process and a set of minimum siting criteria, which are not subject to interpretation or discretionary acts by the planning entity, which if met will guarantee a finding of consistency with the Plan." Therefore, Richardson stated it has to be in the Plan.

Based on the time, Sullivan suggested carrying the balance of the agenda items over to the next meeting. He asked for volunteers to attend a meeting with the other counties to discuss multi-county solid waste issues.

Dan Skrzeczkoski, Vic Patrick, Ralph Richardson, and Nancy Ferguson volunteered to attend and represent the Solid Waste Committee. Sullivan would notify these individuals of the specific time, and location, with the meeting to be held on May 14, 1998.

Sullivan stated the next solid waste committee meeting would be held on May 26, at 7:00 p.m., in this room.

Sullivan asked Johnson if the Board would be discussing an agreement with Waste Management, or will the Committee be discussing it, or will the Board just accept what was handed to them by Waste Management.

nson indicated that if the state grants the expansion, the County would most likely take whatever money we receive and put it toward recycling, rather than banking it.

on contends the county should bank some for future use in building a transfer station, because recycling will not extend the life of the landfill, as every yard that recycling takes out will have to be made up from somewhere, because the landfill needs the revenue, and can only do that through more waste or higher rates.

Richardson stated that if the DNR approves the landfill expansion, it is automatically the Board's job to negotiate an agreement. If the State turns it down, the landfill expansion and host community agreement should be the job of this committee.

Sullivan mentioned that Waste Management is paying Grand Traverse County 50 cents per yard for all waste coming out of their county, and perhaps a fee could be put on all waste being disposed of within Charlevoix County.

Sullivan suggested the committee consider 2 meetings per month. Members should be looking at possible dates ahead of time, perhaps the second and fourth Mondays. By the May meeting a decision could be made.

Moved by Ralph Richardson, seconded by Tad Malpass, to adjourn at 9:02 p.m. Motion carried.

CHARLEVOIX COUNTY SOLID WASTE PLANNING COMMITTEE

MAY 26, 1998
MINUTES

Meeting was called to order at 7:00 p.m. Members present: Kurtz, Pizzurro, Richardson, Hass, Smith, Skrzeczkoski, Ferguson, Frykberg, Malpass, Strahl, Patrick, Johnson.

Members absent: Jamie Hass, Paul Lindberg (excused).

Others present: Larry Sullivan, Barney Way, Deb Johnston, Nate Jason.

Approval of Minutes.

Richardson moved to approve the minutes for March meeting, as presented, seconded by Ferguson. Motion carried.

Richardson moved to approve the minutes for the April meeting, as presented, seconded by Frykberg. Motion carried.

Public Comment Unrelated to Agenda Items.

Jerry Puhl, of Watch, Inc., commented regarding his groups concern with the environmental catastrophe that could take place at the landfill at some time in the future. Lake Charlevoix could be at risk and a lot of people have a big investment in the County, as well as interest in fishing, etc. Being about a mile away from Lake Charlevoix creates a big concern for the residents, if it is allowed to expand. It has happened before with chemical spills that get into the ground water, and it can happen again. Recently when he was in Florida he read about a case where in the past year about a plant that was developing lawn fertilizers, and they had a lot of waste to take care of. They asked for a holding pond with plastic liner and dike system around it, and had assured the residents there would be no problem. Recently, with the heavy rains, the dike broke, the acid material got out into the stream, into the river and 500,000 legal fish died off, as well as other aquatic life being harmed. They figure it will take ten years for this river to come back. The owners of that plant had assured the residents that nothing would happen, but it did. Watch feels very strongly that if there is an accident at the landfill, our lake could be harmed in the same way. The County Board and Planning Commission has turned down the expansion, Eveline Township does not want to zone any more land for it. People in the community feel very strongly that it is too close to Lake Charlevoix, and that there is potential harm that could come from it. Watch realizes that landfills are a necessary item, and if that landfill was ten miles away from the lake, we would not be here tonight. The closeness to the lake and potential danger to the lake, Watch hopes and pleads that you do not allow any more

expansion to the landfill, and in fact, put in the plan that there is a closing date when it will be capped and forever covered over.

In response to Mr. Puhl's concerns, it was noted that this issue is now in the hands on the Michigan Department of Environmental Quality

New Business.

Long Term Disposal Options.

A background paper on long term disposal options was provided to committee members, to generate some thinking on this matter. Sullivan indicated that he would prefer to resolve the long-term issues and then deal with the short term issues at a later point in time. For this discussion, long term was defined to be in excess of ten years.

Discussion took place regarding the ability, or inability, to reach agreements with other counties, given the facility in Charlevoix has a limited lifespan. The belief is that it should be no more difficult for us than it would be for a county without any disposal capacity.

The status of landfills in the area was discussed, with the acknowledgement that Elk Run, in Presque Isle County, is operating a limited number of days per week, and City Environmental, in Crawford County, has a court settlement that allows them to accept waste from a 21 county area, of which Charlevoix County is one of the permitted counties.

The Glen's Landfill site in Leelanau County is certainly a possibility, as are the sites in Manistee, Wexford, Montmorency, Charlevoix and Clare Counties.

Sullivan indicated the landfills listed would provide for diversity of ownership, not only private ownership, but also facilities that are publicly owned. These sites are all within "reasonable" distance to haul waste.

Dan Skrzeczkoski made a motion that staff attempt to work out agreements with counties having landfills from Mason County north. Seconded by Ferguson. Motion carried.

Tom Rankl felt the committee needed to address whether or not we need a landfill in Charlevoix County first. If the County does not like the way Waste Management is running the facility, perhaps the County could purchase it through eminent domain. He stated that moving waste long distances is expensive and winter weather can be a problem.

It was acknowledged by the committee, that the only way to force a landfill to stay open would be to develop a long-term contract, and even that could not guarantee a landfill would stay open.

Long Term Management Options.

Recycling.

Recycling Management Options entailed the need for numerous sites within the county, in particular, sites being located in each of the three cities. Options as to each community operating their own site vs a series of county operated sites. The consensus of the committee was that

recycling drop-offs would be more effective if operated with uniform equipment and accepted uniform materials. The volume of materials dropped off would be impacted by the hours per day and days per week each facility is open. It is not necessary at this point in time to determine where the materials should go, only that recycling should be organized and coordinated at the county level.

Composting.

Discussion on composting reflected the committee's belief that this type of activity, especially the composting of yard waste, would be best addressed by the three cities, with townships arranging on an individual basis with a city, or cities, to allow township residents to make use of existing drop off locations in each city.

Household Hazardous Waste Collection (HHWC).

The committee discussed having a HHWC program, and concluded that it would be desirable, and that it should be fashioned after those taking place in Grand Traverse and Emmet Counties. A program of this nature should be organized by the county, with collection days occurring once a year, in each of the three cities, and possible one on Beaver Island periodically. These would function on an appointment basis, with a company such as Drug and Lab, or other similar companies contracted to operate the actual collection, transportation, and disposal of the collected materials.

Education.

Education of the public was felt to be a critical need by some of the committee. Options for educating the public as to types of materials that could be recycled, recycling locations, and hours of operation would be necessary to begin any program, as well as informing the public of the costs of recycling vs landfilling material.

Methods raised as to how to get the educational messages out ranged from including information with tax notices, use of news media, meetings with schools and community groups, to having members of community groups work at each recycling site to ensure that materials are properly sorted.

Funding.

Discussion of funding sources ranged from placing a millage request on the ballot, surcharges on waste disposed of at the landfill, a per household charge for each property in the county having a dwelling on it, to a user pay system.

The feeling of the committee was placing a surcharge on waste disposed of at the landfill would be a viable means of raising funds.

A motion was made by Nancy Ferguson for Charlevoix County to develop a comprehensive countywide recycling program, including an educational component and a county survey with funding from a surcharge on all waste being disposed of in Charlevoix County. Motion was seconded by Dan Skrzeczkoski. Motion Carried.

Solid Waste Enforcement.

The question was raised as to what authority we have to decide enforcement of the Solid Waste Plan.

Sullivan stated the solid waste plan is suppose to include enforcement methods, and asked if there are activities the committee feels are necessary in the area of enforcement. He stated that in terms of what can be done in enforcement, there is enforcement of activities at landfill, enforcing collection areas, as those that are or are not in the plan.

He further stated the landfill company might have a big concern as to where the waste generated in Charlevoix County goes, even though the county may not. In Clare County, a person is paid to sit at the landfill and check to see where the waste is coming from.

Don Pizzurro stated that waste was being shipped out of the county to landfills not listed in the plan, with no enforcement by Charlevoix County, and that is why Waste Management brought waste in from Grand Traverse County.

Sullivan stated bringing the waste in from Grand Traverse occurred prior to the hauler in Charlevoix taking it to other areas.

Richardson stated that MDEQ staff indicated that Charlevoix County has been very remiss in not enforcing the Solid Waste Plan. He had come up to check on a report of violation at the Cedar Ridge Landfill and in a discussion had stated the plan should be enforced. He stated that there is specific enforcement language in the act, which details allowable fines, etc.

The question before the Committee at this time is what types of enforcement do we need, and who is responsible for enforcing it.

The assignment for the next meeting is to think about methods of enforcement, write them down and bring back for next meeting. This will be the first agenda item.

Tom Rankl stated any regulations put in are going to hurt the little guy. The big guys don't get hurt, but the little businessman does.

Other Discussion.

Tom Rankl asked if the County Planning Commission could change their vote on the landfill expansion issue. He stated that the State MDEQ could sit on it until November, the merger comes down in September, and we have already mothballed one landfill. If that happens, we are just wasting our time.

Discussion took place on how this could be done.

Johnson stated that they could not because another meeting has already been held since the meeting at which the vote was taken. He stated it would have to be discussed with Larry.

Discussion took place on agreements that can be negotiated on price for disposal, etc.

Sullivan stated that an agreement could be made with Waste Management and the county that Waste would give \$5 yard for every yard that comes into this facility for a ten year time period. And if both parties agree, it could be set. If the landfill closes, none is coming in.

Don Pizzurro stated that if the County reached an agreement with Waste Management before the merger, the company would have to keep the landfill open, because they would have to take care of the waste for the length of the agreement.

Sullivan stated the group that met on May 14th, will meet again on June 18, here at 1:00 p.m., and prior to the agenda item enforcement, for the next meeting, some of us who attend this meeting will give a report.

Motion by Malpass, supported by Richardson, to adjourn at 9:14 p.m. Motion carried.

CHARLEVOIX SOLID WASTE COMMITTEE

JUNE 22, 1998

MINUTES

Meeting was called to order at 7:00 p.m., by Chairman Johnson. Members present: Rankl, Lindberg, Skrzeczkoski, Ferguson, Kurtz, Patrick, Johnson, Smith, Pizzurro, Strahl, and Hass.

Members absent: Richardson (excused), Frykberg (excused), and Malpass (excused).

Approval of Minutes.

A motion was made to approve the minutes with corrections by Skrzeczkoski, supported by Ferguson. Corrections are as follows:

Page 5 – 1st sentence, add “if both parties agree”.

Page 3 – Motion to fund recycling to read, “Charlevoix County to develop a Comprehensive countywide recycling program, including an education component, with funding mechanism to be determined by an attitude survey.

Motion carried, to approve the minutes, as amended.

Public Comment, Unrelated to Agenda Items.

Howard Neilson spoke on behalf of WATCH, and stated this group opposes the expansion of the landfill. It is felt by this group that this expansion is a threat to the community, and strongly opposes it. The residents depend upon the environment being protected, and their water supply being protected. This group has fought on several issues to protect the County's residents, and urge the Committee to do the same. The group is going to start a voting campaign to get its members to vote, so they can affect issues such as this one.

Multiple County Solid Waste Meeting Report.

Sullivan reported on the second meeting of the group made up of representatives of the waste planning bodies in Emmet, Crawford, Antrim, Montmorency Counties, and regional planning staff member representing the counties east of I-75, which composes Otsego, Cheboygan, Crawford, and Alpena Counties. The meeting had four specific agenda items. C.H. Smith, who had recently purchased a tub grinder, discussed possible uses of it to reduce solid waste. It allows wood material to be ground up, and provided there is no lead in it, it can be used in garden areas. The communities could utilize the tub grinder, to allow for more rapid composting

of their compost material. There is a possibility the grinder could be leased a couple times of year, etc.

Sandy Cunningham, of Montmorency-Oscoda Landfill Authority, gave everyone information on how that landfill is doing. It is in the process of having to construct another cell to handle additional amounts of waste. That landfill is willing to accept waste from anywhere in Michigan, as they need more volume. They may have to put on a quota for how much each county would be allowed to put there, if several counties elect to do so. They stated that if they know how much is going to come in, they can construct the cells to accommodate the needs. They are ready to accept agreements with the county and are set to accept whatever amounts we want to send there.

Pat Merrill, Solid Waste Enforcement Official, from Crawford County, spoke about his activities. Sullivan stated he did not get a feeling for all that Merrill does, but apparently he does check some waste to see from where it is coming from. The City Environmental site does have an agreement that they can accept waste from a 21 county area, and that Crawford County cannot prevent that from taking place. This indicates that Charlevoix County has another county to ship waste to, if needed.

The last item discussed was a chart prepared by Jim Frey, from RRSI, that summarized the first meeting of the multi-county group, and discussed the items of high concern, or high priority to all the counties.

Prudence Kurtz was at the meeting, as was Vic Patrick.

Another meeting of the multi-county group is scheduled for August 27, at 1:30 p.m., and we will be inviting someone from Representative Bodem's office, and from either one or two of the other landfills in northern Michigan, to learn what things look like from their perspective.

Old Business.

The assignment from last meeting was to think about enforcement between that meeting and this one. Sullivan stated that when a community decides to get into enforcement, there are reasons. There are a number of enforcement activities that can be utilized. Enforcement can be directed to litterers and haulers. But also could be taken against a landfill, if the waste is coming from an area not in the Waste Plan. This could be a violation by the hauler as well. There are also some operational aspects of a landfill in terms of some of the permit requirements from the State of Michigan. If the landfill is not complying, enforcement might force the facility to comply.

Sullivan stated that the reason for enforcement is to see that rules are followed, and if not, a punishment such as fines, imprisonment, etc., should take place, to force compliance.

Regarding the issue of where waste is disposed of, a couple of things can happen. In Emmet County, they have a concern that waste from their county goes to another county, without going through their transfer station, as they need this revenue for the operation of the transfer station and also to help in their recycling program. In Leelanau County, they have taken legal action for waste coming into their county from counties not in their solid waste plan.

Sullivan asked if the Committee would like to see the county insuring that waste that is generated in the county is disposed of at facilities listed in the solid waste plan. Or is the Committee's only concern is that waste coming into the county is coming only from those counties listed in Charlevoix County's solid waste plan.

The concern raised with waste leaving Charlevoix County, is that if surcharges are financing the recycling program, and waste leaves the county, and does not support the recycling that would be a problem. One way of addressing this would be to have the haulers collect and pay the surcharge, as opposed to the landfill.

One member stated it is not our job to see that the landfill has enough volume. That is a business issue for the landfill. We should not have to subsidize a landfill to keep it in our county.

Sullivan stated he has looked at several other plans, as to how enforcement is handled. He has not looked at what has happened in St. Clair County, but would like to see how they have addressed their problems. He stated the law did not require a landfill to report where waste is coming from, or haulers to report where the waste is going until recently. This was a problem, and when Emmet attempted to follow trucks, they ran into a great deal of controversy. Sullivan stated he is curious whether the State of Michigan is undertaking vigorous enforcement activities.

It was mentioned that we have no teeth in our enforcement. Sullivan mentioned that in the absence of any enforcement by the county, the DEQ is the enforcement agent. If there is no teeth in the enforcement, then we shouldn't have it. There should be a monetary punishment, as this would at least slow the violator down, if it does not stop it.

Sullivan stated there are prescribed penalties for prescribed violations. A violation of the Plan is a violation of State Law, and we do not have to have an ordinance to enforce it.

Hass stated in regards to enforcement, from the standpoint of a hauler, he thinks a good solid waste plan would be one that does not need enforcement. He stated he wanted his business out of the money process. If the County wants to do social engineering and come up with these projects and plans, then plain old pass a tax. Then you will have a referendum on whether the public is supportive or if not, that tells you the education process needs to be stepped up a bit for the next time you come around for tax support. Hass stated he did not want anybody looking over his shoulder.

Hass stated he did not want to be in the money flow, that would require record keeping, transfer of funds, etc. He stated he will pay whatever the fee is at the landfill. He stated he would rather see the enforcement at the landfill, but is opposed to the way Emmet County is putting it back on the hauling company by extracting money for disposal.

It was pointed out that the hauler passes these increases on to their customers.

Hass agreed, but stated then he becomes the bad guy by charging more to cover the costs. He would prefer not to do that. The resident's only recourse is to create less waste.

Sullivan stated that to prolong the life of landfills, the charges can be so high, that residents will be more careful with their waste, to keep their costs down. If the cost to landfill waste is high enough, people will recycle to lower their cost.

Rankl stated that he can't operate at a competitive price with Waste Management now, because they can subsidize this landfill in another area they are able to run. If you put your regulations in, and then we have to do them, but Waste Management can comply here, as well, but can subsidize this from another area where the rules are not so strict.

The question was asked as how this Committee could protect that competition.

Rankl stated it could be done by having less regulations. He stated that he had been able to build his business by pitting the big guys against each other. Once stricter regulations are put in, the smaller hauler will no longer be able to compete.

If all the landfills are owned by the same company, the ability of independent haulers to compete will be eliminated. The only non-USA/Waste Management owned facilities will be at Montmorency-Oscoda, and Wexford County, which are both publicly owned and operated. The Wexford Facility only takes waste from their county and Missaukee, and will not expand their service area. The landfill in Manistee County is owned by Allied Waste.

The U.S. Justice Department has not taken action on the USA-Waste Management merger yet, and could force the divestiture of some facilities.

Lindberg stated he has always been in favor of a non-profit 501-run trash hauling company.

There was a discussion on how the smaller companies can compete with the larger companies, but the haulers felt that can only be done with less regulation, rather than more. Other members stated that the residents pay the extra charge to the hauler, so the cost is passed on.

It was stated that the system should be a user pay system. If a person is paying for the amount of waste he disposes of, then he will recycle.

It was mentioned that if the cost of a bag of waste disposal is upped a quarter, then the money could go to recycling. It was also stated that the County has the power to enact it, collect the money and use it for recycling or whatever.

It was stated that if recycling was a moneymaker, the haulers would be in the business.

Sullivan stated that if the market is up, recycling does make money. He stated that Emmet County has a way of subsidizing their recycling. They did something that was good for the residents, and the residents like it.

It was reiterated that education is needed, to convince people to pay for it, just as a fire truck which is needed, etc.

Ferguson stated she just returned from Germany, where recycling is taken seriously, and you are fined if you are caught throwing away a pop can. There are containers for different bottles, cans, etc., all over, and they are used.

Sullivan asked if the Committee feels there should be an effort to modify behavior, by those that generate the most waste, should pay more for the recycling effort. He asked if it should be a user pay system.

Hass stated that if something were free, people would take advantage of it. If government funds recycle pickup, the resident will recycle to save money. But, he stated if he were paid to pick them up, he would.

Sullivan stated he felt the enforcement is needed because some people do make sure the loads are covered, etc., but some do not. These are the ones that need to be reminded by enforcement.

Hass stated he did not feel this County needs a full-time person to enforce the plan. He stated the money should be better spent somewhere else.

Sullivan stated he will check with John Ozoga, Jr., as to how the checks of the landfill are made, whether they give advance notice of the visit or not.

Ferguson stated she wanted a grievance process for violations, so that someone can report violations, and expect action on it. Hass agreed that would be good.

Ferguson stated she has spoken with three law type people and they had stated if they are going to enforce it, it will have to be a law, and they want to know what the consequences are. Ferguson said the county prosecutor agreed.

Sullivan stated there are already laws on the book, they can enforce.

Sullivan asked if the Committee felt there is a need for an individual to oversee where the waste is coming from and where it goes.

Ferguson stated she did believe there is a need for this.

Discussion took place on how a county would know how much waste was coming in, or going elsewhere. There is a quarterly report that is put together by Waste Management, and sometimes this report has to be worked on, to get an actual number.

Ferguson stated she would like to see a surcharge at the landfill for waste generated in Charlevoix County, and being hauled elsewhere. She stated she would like to have someone local that she could call if there are violations.

Hass stated he felt that the enforcement ought to come at the end of this process. Then we would know how we want to enforce it, and then decide where the funding will come from.

Ferguson stated she has never seen anything on what the DEQ enforces in the Plan. Sullivan stated it is in Part 115 of Act 451 of 1994, and the Administrative Rules.

Paul Lindberg asked for the last copy of the County's audit report.

The different ways of paying for pickup, such as monthly charge, by the bag, tag, or with carts that wheel out to the curb, was discussed.

Sullivan stated a recycling plan does not have to be a part of this Plan.

Sullivan stated that he has spoken with Leelanau, Manistee, Wexford, Crawford, and Montmorency Counties, and three he has not spoken with are Presque Isle, Clare, and Mason County. Those expressing a willingness to accept waste from us at this time are Leelanau County, Manistee County, and Crawford County.

Leelanau County has stated they are willing to enter into an intercounty agreement with us, and they have provided some language. They do have some conditions that we may or may not feel are agreeable. Manistee is interested, Wexford is definitely not interested, Crawford is willing to accept waste from us, and is forced to by court settlement. Montmorency is willing to accept waste from us. The Leelanau Landfill, Allied facility in Manistee, the facility in Presque Isle, and the facility in Crawford County would take waste from us. It probably would not go to Presque Isle at first, but might periodically. The landfill in Montmorency is willing to accept waste from us, and also the landfill in Clare County.

Hass suggested just go to the closest one to us and see if they are willing, and then get agreements with just the ones we need.

Sullivan stated that we have no way of knowing which ones will be open at any given time.

Leelanau would require Charlevoix County to have a public education program, recycling program, composting program, and household and agricultural hazardous waste program.

It was decided to leave enforcement alone for awhile.

Next meeting we will be resolving the long term disposal options.

Sullivan stated that he has to respond to RRSI on the material he sent to the members, and his major concern is the inclusion of curbside recycling. He stated he did not hear that from this group, so that should be changed. They did come through with a couple more things they would like to offer to the county. They are looking at trying to get several counties to contract with them to develop siting criteria, but Sullivan is not comfortable with that. He felt we could do a better job ourselves. He stated they had siting criteria ready to send to DEQ, and we would be paying RRSI thousands of dollars to go through the process, and cannot see spending the money in that manner.

RRSI indicated a willingness to do research and develop background material to be used for local host agreements with any landfill in the county. Sullivan stated he would recommend saying no to both of these.

Someone asked what the status is on amendments to the law that would add local host agreements to it.

A meeting was scheduled for this morning, in Lansing, but no word was heard on the result of the meeting.

Next month we will finish long term disposal options, out of that we should be able to develop short-term disposal options. Should discuss letters of interest from various companies that want to expand or change their facilities in the County.

The next meetings will be held on July 20, and again on July 27.

Motion made by Vic Patrick, seconded by Ferguson, to adjourn at 9:10 p.m. Motion carried.

**SOLID WASTE COMMITTEE MEETING
JULY 27, 1998
MINUTES**

Call to Order.

Meeting was called to order at 7:00 p.m., by Nancy Ferguson.

Members present: Frykberg, Ferguson, Richardson, Strahl, Patrick, Kurtz, Hass, Malpass, Skrzeczkoski, Smith.

Members absent: Tom Rankl, Paul Lindberg (excused), Don Pizzurro (excused), and Phil Johnson (excused).

Others present: Nate Jason, Larry Sullivan.

Public Comment.

There was no public comment.

Approval of Minutes.

Motion by Dan Skrzeczkoski, seconded by Prudence Kurtz, to approve the minutes with the following corrections:

Page 1 – correct spelling of Skrzeczkoski, under members present.

Page 5 – Middle of page, last line in 7th paragraph, rewrite to read “Ferguson stated the County Prosecutor should be included in this effort.”

Motion carried.

Question was asked of Jamie Hass as to whether he has sold Walloon Lake Refuse Service to USA waste. Hass replied he has not sold to USA Waste.

Discussion of Recycling Survey. It was stated that education will need to take place along with the recycling survey.

Nancy Ferguson stated that Watch would volunteer to compile an attitude survey regarding recycling.

Concerns were raised regarding having Watch involved with such an effort, given their position on the landfill expansion, and recent newspaper ads.

Sullivan stated the Planning Commission would be the preferred party to develop and mail out the

attitude survey. If a survey is to be sent out, it would be desirable to add additional questions that address growth and development issues. Since surveys tend to be costly, it would be desirable to obtain input on a number of topics at the same time.

Some committee members expressed concerns over the timeliness of a survey, and the ability to have it completed prior to the solid waste plan being completed.

Sullivan indicated that it is not necessary to have a detailed recycling plan completed prior to the solid waste management plan being completed.

Old Business.

The materials from RRSI mailed out to members prior to the June 22, 1998 meeting, being the Project Memo and the System Alternatives were discussed. The major concern raised was the volumes of waste and recyclables being listed in tons, as opposed to yards.

Long Term Disposal Options – Export.

Sullivan began the discussion of long term disposal options with a review of the list of counties the solid waste committee directed him to contact.

With the exception of Mason County, which indicated the landfill in that county closed, and Clare County, which did not respond, the remainder of the counties responded either in writing or by phone. Staff also contacted the landfills in each county, a number of whom responded.

SOLID WASTE DISPOSAL EXPORT OPTIONS

<u>County</u>	<u>County Position</u>	<u>Facility Position</u>	<u>Ownership</u>
Clare	No response	Willing to accept	Waste Management
Mason	Facility closed	Facility closed	
Manistee	Emergency use only		Allied
Wexford	Possible emergency use	Possible Emergency Use	County owned
Leelanau	Contingency Use only	Willing to accept	USA Waste
Crawford	Has to allow by Court Order	Same	County owned
Montmorency	Willing to accept, may place volume cap	Same	County owned
Presque Isle	Plan being written by the State	Willing to accept	USA Waste
Charlevoix	Willing to accept	Willing to accept	Waste Management

The site in Crawford County, as a condition of purchase by City Environmental is allowed to accept waste from a large number of counties, of which Charlevoix County is one.

This gives us a good site to send waste to, and it does not appear they will require us to have a contingency reciprocal agreement.

Sullivan stated that Montmorency County is willing to take our waste. They do not want to lose volume that is currently going in to their site. They want all the waste they can get, and would just as soon waste created in their county not leave their county.

Montmorency County would be a second site that would take our waste without us taking theirs.

It was stated that we have things covered, even though we might have to go further to Montmorency County, it might be cheaper because of the competition.

Hass stated that he believes having Charlevoix County as our primary site is a given. Under the long-term options, Charlevoix is primary, and logistically Crawford County appealed to him as the second choice. He stated that Montmorency County is another choice because it is governmentally owned which provides us some protection, and would like to see them supported strongly. It would be nice to know that Charlevoix County has something worked out with another county.

Sullivan mentioned that Crawford County has had ground water problems in the past, prior to having liners, as did some of the other sites.

The site in Crawford County has 52 years of capacity, Montmorency has some limitations, but is building a new cell, and has plenty of real estate.

A question was asked as to what liability we would have if a facility we ship to has problems.

It was stated we would have no more liability than we do here. Sullivan stated the facilities, which have had problems and have corrected them, are in a better position than one who has not had a problem, but might, because we know what they were required to do to correct the problems. Sullivan stated he has not heard of any company or governmental entity that has been forced to pay to clean up a site. The money to fix the problems has come out of operating costs of the facilities.

Ferguson asked if she is the only one that wonders about Presque Isle, because she has read there are problems over there, and that residents of Presque Isle County have asked are we certain we want to send waste there, because then we would be part of the cleanup, in case of a problem.

It was stated that Crawford provides for contaminated soils, but Montmorency does not, which is a reason to include both of them in the plan. It is also not necessary to establish a ranking or priority of sites, but rather list which ones can be used.

Moved by Ralph Richardson, seconded by Jamie Hass, to include the counties of Crawford, Montmorency, Presque Isle, and Charlevoix County for primary disposal. Motion carried.

Sullivan stated we should also list facilities for emergency or contingency export purposes. Manistee would be asking for reciprocal agreement for contingency or emergency. He stated historically there are some counties that you get along with, and Manistee is one of those. Their facility is owned by Allied and that would give us another door, so staff felt it should be included for emergency or contingency purposes.

Moved by Randy Frykberg, seconded by Prudence Kurtz, to include Manistee, Leelanau, and Wexford Counties, for emergency or contingency for export purposes only. Motion carried.

Discussion as to how the primary facilities were chosen, it was mentioned that this would still leave competition for local haulers, which was a concern of Tom Rankl's.

Sullivan stated the only Type III Landfill he knows of is Knutson's in Grand Traverse County, which is being closed shortly. He felt we did not need contingency agreements for Type III Landfills in other counties.

Following a discussion on the need for these types of landfills, there was a consensus that the plan should allow for three.

Moved by Randy Frykberg, seconded by Dan Skrzeczkoski to allow for three Type III Landfills, one for exclusive use by Medusa Cement Company, and one for the exclusive use by East Jordan Iron Works, and one that would be open to accept Type III waste from the general public, that is generated in Charlevoix County. Motion carried.

Long Term Import for Reciprocal.

Motion by Hass, supported by Frykberg, to allow long term import contingency disposal in Charlevoix County for Manistee, Wexford, and Leelanau Counties for the purpose of reciprocity only. Motion carried.

Ferguson asked if we are listed in someone's plan for contingency, would we be liable if we no longer have a landfill at that time.

It was stated that if you don't have a landfill at the time of need, then it is cancelled out.

Discussion took place on the fact that these counties are requiring certain things, and we need to have those same requirements for those counties. It was stated we do not want to be more lenient than the other counties are with us.

Sullivan stated that Leelanau County says their agreement is valid until the next revision of the Leelanau County Solid Waste Plan, but either county may give 180 days written notice to terminate the agreement. Sullivan would like to have the contingency or emergency generally be considered for the period of length of planning process, or the short term plan which would be a five year time period, but with the opting out available, too.

Sullivan stated he could ask them for five years of reports.

Next Meeting will be held August 24, 1998, at 7:00 p.m.

Motion to adjourn by Ralph Richardson, supported by Patrick, to adjourn at 9:10 p.m. Motion carried.

SOLID WASTE PLANNING COMMITTEE

SEPTEMBER 14, 1998

MINUTES

Meeting was called to order by Chairperson Phil Johnson. Members present: Ferguson, Frykberg, Richardson, Kurtz, Lindberg, Rankl, Malpass, Hass, Smith, Skrzeczkoski, Strahl, Johnson.

Members absent: Pizzurro; Patrick (excused).

Others present: Larry Sullivan, Planning Director.

Minutes:

Motion by Randy Frykberg, seconded by Tad Malpass, to approve the minutes of the previous meeting, as printed. Motion carried.

Correspondence:

Grand Traverse letter indicating they would like to list Charlevoix County as an import and export county in their solid waste plan.

Sullivan stated that he believes this committee has made a decision as to which counties will be included in our plan, and he will get letters out to counties who have indicated an interest in using our landfill, as to the Committee's current position.

Had a telephone conversation with staff person from Crawford County indicating they have been researching their settlement with City Environmental and it indicates they would be allowed to ship their waste to other counties, but cannot force the waste generated in Crawford County to be shipped to other counties. They may be interested in having their waste come here.

Also received a letter from Manistee, which goes along with what the Committee's thinking has been regarding an agreement with Manistee County.

Old Business: Recycling Survey.

Sullivan provided a copy of the draft survey to the members. He explained what information was being asked for in the survey, and stated we want to know what the residents thoughts are on recycling and this survey will determine their knowledge of the waste issues in the county, as well. He gave a capsule summary of the survey.

He stated that any committee members who have suggestions or comments on this survey between now and the next meeting should contact the Planning Department.

Ferguson stated she had a concern about the form of the survey. Sullivan stated this was just the questions, not the final form.

Discussion was held as to how the recipients of the survey will be determined.

New Business:

Multiple County Solid Waste meeting:

Staff had invited the new Vice President of the Michigan Division of Waste Management to give the group an idea of where the Company is going in the future. He did not attend, nor respond, but Pizzuro and Poquette both attended representing Waste Management.

Bev Bodem attended and stated that proposed changes to the Solid Waste Act is being considered, and it was voiced by all present that this group would like the current act left alone, at least until we finish the plan update.

Present were representatives from Montmorency, Antrim, Otsego, Charlevoix, Cheboygan, Emmet, Kalkaska and Crawford Counties, and had good representation and good discussions. This group will be meeting again on October 27. Representatives from Hillman Power, in Hillman, Michigan, a firm that burns tires will be in attendance, to discuss means of handling and disposing of tires.

Sullivan stated there have been some discussions in the past about burning tires at Medusa, but they have other environmental problems that have to be resolved before they can take on the tire issue.

Transfer Stations:

Staff reported that our current plan allows for transfer stations at the site of the existing landfill, in Ironton or on M-66 between Ironton and East Jordan, along US 131 between Walloon Junction and Boyne Falls, and also one on Beaver Island. These would be Type A facilities that could handle 200 yards, or more, a day. Soon after that plan was completed and improved, it was thought that maybe there should be a little more latitude on the location. He stated it made sense to make provision for transfer stations for the future. He said there is no need for 5 or 6, but we do need to provide allowances for them at a variety of locations.

It was stated that we should consider having one on each side of the county, so that the haulers would not have to haul all the way across the county to get to a transfer station.

It was suggested that wording be put into the plan requiring a review system so that there is some control over who can put in a transfer station to make sure they are knowledgeable enough, etc. Staff suggested that zoning could probably not control it, but the Solid Waste Plan could have provisions which would make sure the transfer station would be located in an area suitable for it.

Staff reported that normally transfer stations are not a nuisance to a neighboring property, unless they have composting in the same location. This is usually the only time there are complaints about odor, etc.

Sullivan was asked to prepare siting criteria for transfer stations. He stated he would put some language together, but he asked what could help his efforts is for the Committee to provide an approximate number they feel would be appropriate.

Malpass stated that it should be flexible and let the economy drive the number. Sullivan stated the best thing he can do is put some language together that is not overly restrictive.

Discussion took place on the idea that the siting be worked out with the Planning Commission. The last time it was decided to let the Planning Commission determine the criteria, but the DNR stated the criteria had to be a part of the plan.

It was stated that we should develop criteria for siting Class A and Class B facilities, because they are different, including hours of operation and buffers. Hass stated there is a need for three Type A facilities, one for each hauler and one for the County. He feels this is necessary in case Waste Management might suddenly say they are going to close theirs, he needs to have an alternative to act quickly. He suggested property should not be disqualified for siting a landfill because it is not on a Class A, because if someone is building one they would know it would have to be on a Class A road, and they could bring the road up to Class A standards once the transfer station is located there.

Malpass stated that he believed that Waste Management would have a plan in place to put in a transfer station immediately if they closed the landfill.

Someone mentioned that Alanson residents are concerned because their rates are going through the roof, because Waste Management has put a monthly charge and upped the cost of the bags. The residents are contacting other haulers, but no one else services that area.

Discussion took place on where the best location would be for transfer stations, in order to be near the most populated areas. Sullivan stated that the rationale for having a Type A transfer station between Boyne Falls and the Village of Walloon would be that the Type B facilities in Melrose and Boyne Valley would potentially close up and use the new one.

Sullivan stated he would get some wording together for the next meeting, and get it out to the members prior to the next meeting. He asked the committee members if they feel there might be a need for a county owned and operated facility.

Richardson stated even if we have a county facility, we still need someone to come and haul the material away. He stated if the county has a rural site for the transfer station, the ones in Melrose and Boyne Valley would close down.

Hass stated with the people's attitudes right now in that area, he does not believe they would come on board. Maybe once it was up and running they might come around.

Sullivan stated the problem would be that if a person has a transfer facility, they might not want people to bring their own waste in. He stated it would be preferable to pick the material up, so that someone would not have to be hired to stand there and wait for people to come to the facility.

Sullivan stated he had spoken with an engineering firm regarding how long it would take to get a Type A Transfer Station up and running

The response was the permitting process would be six months to twelve months through the DEQ. He mentioned that it would probably be close to sixth month for a private company, and twelve months for a public one.

Sullivan stated that if there is a need, he felt there is a possibility to speed up the process. He stated that there are facilities available to use in case Cedar Ridge closes up unexpectedly.

Siting Criteria

Sullivan asked if the Committee wants to have siting criteria in the plan. He said it is not required to be.

Discussion ensued as to whether or not it was preferable to have siting criteria in the plan. Sullivan stated that if the last plan had not had siting criteria in it, Waste Management would not have been able to request an expansion.

Sullivan stated that if there had not been siting criteria in the plan, and we could show we had 66 months capacity of landfill space, Waste Management could not expand.

Motion by Ferguson, seconded by Kurtz, to not include siting criteria in the plan, and to also include language that no new Type II landfills, nor an expansion of any existing Type II landfills in Charlevoix County.

Discussion took place on what was wrong with the siting criteria in the last plan. Richardson stated that if we had put together good siting criteria, we would not be having this discussion now.

Ferguson stated this Committee has spent a lot of time talking about siting criteria for the last plan, but the State sent it back to us stating it was too strict. This Committee then changed the siting criteria to get the State's approval. She said she thought this Committee wanted to have the same criteria as other counties, but was not allowed to by the State.

Sullivan stated the State believed our siting criteria at that time was encroaching on the design standards criteria, and the DNR felt it is not in the Plan's scope to do that. One of the items of contention was that we were requiring a 40' horizontal distance from groundwater. The State said the Act allows a minimum of 10'.

Richardson stated that the State said that if the County could show that we had 66 months of capacity in our landfill, we could turn down an expansion. Sullivan stated that is true, but the County voted to allow the use of the siting criteria.

Richardson stated that if we are not willing to spend the time to do a good job on the siting criteria, as Manistee County did, then it would be better not to have siting criteria in the plan. He stated there are a lot of things in the Manistee Plan that are important, that have been upheld in court, so is allowed in the Manistee Plan. He stated that if this committee cannot spend the time to do it correctly, maybe we should not put siting criteria in the Plan.

Richardson stated changes to the law which are currently being proposed would allow landfills to expand on any adjacent parcel they now own.

Hass suggested that if we do not have siting criteria in the Plan, we might have a problem when the DEQ is asked by a company for an expansion in the future. He wondered if it might not be better to have siting criteria so that we would at least have a say in any expansion request.

Richardson stated we have to remember that we have no control over environmental issues, which is a part of the problem with the 40' horizontal isolation we had put into our first siting criteria.

Sullivan stated that if they reject our plan, they have the right to write the plan themselves.

Sullivan suggested we could table the motion, he could write a letter to the DEQ requesting a response, and in that way we will have something from them in writing, and number two, it will relieve some of the questions in the minds of some members.

Sullivan was directed to write a letter to the DEQ requesting clarification on a number of issues related to siting criteria.

Motion by Dan Skrzeczkoski, seconded by Ralph Richardson, to table the motion on siting criteria. Motion carried.

General Discussion:

Discussion took place on the fact that the foundary sands from Iron Works adds to the filling of the landfill space. Sullivan stated that if the sand was not going in there, it might tip the scales as to whether Waste Management could continue in that location, from an economic standpoint.

Kurtz stated she lives across from the landfill, and she stated her feelings would be the same if she did not live there.

Ferguson stated that five people in the area of the landfill have asked her who takes the water samples at the landfill.

Malpass stated from what he knows, it is usually the practice that a once a year samples are taken by the DEQ, and Waste Management probably checks more often and compares the results.

Ferguson stated people in her area are having problems with water, and she is not happy about it. She feels something strange is going on in the area, and it may or may not be connected to the landfill, but all of the residents who have problems have the same problem. She stated that she would feel a lot better if an independent company would test it.

Sullivan stated that as far as he knows, the DEQ comes out and splits samples with Waste Management, and they each send them out to their respective labs.

Motion to adjourn at 8:52 p.m., by Nancy Ferguson, supported by Prudence Kurtz. Motion carried.

SOLID WASTE PLANNING COMMITTEE
SEPTEMBER 28, 1998

MINUTES

Chairman Johnson called the meeting to order at 7:00 p.m. Members present: Patrick, Johnson, Smith, Rankl, Strahl, Skrzeczkoski, Richardson, Ferguson, Kurtz, and Malpass.

Members absent: Lindberg (excused), Frykberg (excused), Hass (excused), and Pizzurro.

Approval of Minutes

Motion by Ralph Richardson, seconded by Nancy Ferguson, to approve the minutes of the previous meeting. Motion carried.

Correspondence

Letter to DEQ from Sullivan and a response, which will be discussed at a later point in the meeting.

Old Business

Recycling Survey: Staff asked for comments or questions on the survey as sent out.

Ferguson asked if the survey would be mostly check off. Sullivan stated a lot of it would be, although some may need an answer written in.

Nancy asked if the Solid Waste Committee could be notified prior to it being sent out, so they can help get the word out. She stated she felt the question on what percent of waste should be recycled should be in percentages. Sullivan stated it would.

Richardson stated that what is missing on the survey is why this is being done. We need something to tell the people that Charlevoix County needs their input on recycling, so they won't trash it.

Sullivan stated the survey would be setup in another 30-60 days.

Ferguson stated that on the last page, the word "was" should be changed to "is", also the same in the last paragraph, "Is a fee is necessary". Also, drop the words in the last paragraph "To the hauler", and the word "along" in the next to last sentence.

Sullivan explained the state law that allows a \$2.00/mo or \$25/yr to a parcel that has a residence on it. But it is subject to a referendum on a community by community basis. What is happening in Benzie County they are using this system, and a couple of townships had a referendum which had it thrown out. Therefore, some communities are paying, while other are getting the service without paying.

Staff suggested if any members have more comments or questions, they can send it to the office. He stated he would be sending publicity notices out to newspapers, etc. There will have to be in excess of 400 surveys returned, so over 1200 will need to be sent out, in order to have a 95% reliability. Staff has not made a determination as to how the residents to receive the surveys are to be chosen. Most likely, the names will be generated from the voter registration rolls.

Malpass stated we would not want any special interest group supporting the surveys, as they might skew the results.

Staff was instructed to further refine the survey and bring it back to the committee with a cover letter, for the next meeting.

Transfer Stations

At the last meeting, it was discussed that there is interest in having siting criteria for transfer stations, but not limiting transfer stations. If they met the criteria that was developed in the plan, any number of them could be sited. The current plan recognizes three transfer stations, one at Cedar Ridge, one between Ironton and East Jordan, one on Beaver Island, and one along US 131 somewhere between Boyne Falls and the Village of Walloon. As a part of that criteria, a transfer station would also have to meet local zoning. After discussion with the State and State personnel, we are going to be hard pressed to use zoning as a siting tool. There are requirements in the siting criteria given out tonight that will overcome the lack of other regulatory control at the local level, that will accomplish the same objectives as zoning.

Malpass asked how this criteria would compare with the state requirements.

The State has minimum requirements for transfer stations. Their concern is more design than where it is located. Sullivan stated the current law allows a transfer station in a wetland, or floodplain, provided it is not in the active floodway area.

Sullivan stated that he would be developing siting criteria for Type B Transfer Stations for the next meeting.

He went over the criteria he had handed out to the committee, listing the laws and acts that could not be violated.

Discussion took place as to what constitutes Class A and who makes that determination.

Sullivan stated he would check with the County Road Commission as to who has the final authority over decisions on designating roads as Class A.

On # 9, in the 7th line, delete the word "hundred".

Rankl discussed a parcel of property on Bell's Bay Road that would be great for a transfer station, but stated this criteria would not allow on in that spot.

Discussion took place on the fact that if you could locate a transfer station in a commercial or industrial district, you would not need as much space for buffering.

Staff was instructed to further research and elaborate on the proposed siting criteria for the next meeting.

Richardson stated we have never discussed how long it would take to amend the solid waste plan. He stated if someone comes along and says he has a perfect site for a transfer station, we should be able to amend it quickly.

Sullivan stated you cannot get away from the 3-month public review process, and you have to get 67% approval of the municipalities, and then approval by the State.

Richardson stated that Emmet County has their siting criteria finished, but they did not have it in the last one.

Staff will get a copy of the Emmet County Siting Criteria for the members of this committee for the next meeting.

October 12th and 19th will be the next two meetings.

Adjournment

Ralph Richardson moved, supported by Patrick, to adjourn at 8:21 p.m. Motion carried.

CHARLEVOIX COUNTY SOLID WASTE PLANNING COMMITTEE

OCTOBER 19, 1998

MINUTES

Meeting was called to order at 7:00 p.m. Members present: Kurtz, Hass, Lindberg, Richardson, Rankl, Hass, Smith, Skrzeczkoski, Ferguson, Frykberg, Strahl, Patrick, Johnson.

Members absent: Malpass (excused).

Others present: Larry Sullivan.

Approval of Minutes.

Don Smith moved to approve the minutes for the last meeting, as presented, seconded by Ferguson. Motion carried.

Public Comment Unrelated to Agenda Items.

None.

Old Business.

Recycling Survey: Discussion was held on changes that need to be made to the letter for the survey, and the survey itself. Staff will make these changes as decided at this meeting.

Motion by Dan Skrzeczkoski, supported by Randy Frykberg, to send out the survey, as corrected. Motion carried.

Transfer Station Siting Criteria

Staff stated he had sent out a copy of Emmet County's siting criteria to the members, for their review. Emmet County is not allowing any private facilities to be located there, only governmentally owned. Staff stated the Emmet County Siting Criteria is more complex and complicated than it need be.

Staff passed out revised materials, and provided background information. He said the main part to look at is the last three pages, concerning class A roads. Pat Harmon from the Road Commission stated that the State would not be designating a county road as a

Class A Road, etc., but it would be done locally. Staff stated he had added some language that if it is a privately owned road and meets all of the standards, whoever owns the road can designate it. Also added was a sentence reading "If the road services only the transfer station, it will not be subject to the Class A standards."

It was mentioned that zoning could not be used in the siting criteria, so we have to control it another way.

Discussion took place on number 5, which concerns locating facilities in floodplains. Sullivan stated if buildings in a floodplain are damaged, it not only affects them, but also land where the water goes to is also affected. Hass disagreed with staff and felt that it is not necessary to protect the floodplain. Staff will check with the DNR to see if they have elevations of the area, to help us in this language.

There was a lot of discussion about the distance the transfer station should be from other property, of if it should be setback from residential buildings. Sullivan stated there is plenty of property available in the County along main roads to provide the 1000 foot of frontage being discussed as needed for the facility.

Sullivan stated one concern he has with less frontage is the amount of truck traffic that would be going into the facility. It was discussed that you would not need the same requirements for a small unlicensed facility, as you would for a licensed facility, with the huge volumes handled.

In 6., staff changed the 10 acres minimum to 5 acres minimum.

Richardson asked if we could say that if it is in a zoning district that allows industrial warehousing or truck terminals?

Sullivan stated he would have to check with the state to see if it can be handled in this way.

He also will ask the DEQ what requirements are for land area required, setbacks, and buffering.

Sullivan stated he only saw 4 things in the Administrative Rules that really impact us. 1) the site does not encroach upon the floodway, and does not increase upstream or downstream flood stages; 2) the design will include a dike to preclude flood water inundation with a top elevation not less than 5 ft. above the hundred year flood plain; 3) a transfer facility located within 500 feet of a residence shall be secured by a fence not less than 8 ft high with 75 % screening if the residence is constructed before the facility permit is issued; and 4) the operation of the facility shall be carried out in a manner that minimizes vibration and noise to adjoining properties.

Staff stated he has no problem with changing the wording to say distance from residence, as opposed to from property lines. Discussion took place on the operation hours, and how that will affect the distance that is needed from adjoining properties.

A question was asked if there is a possibility a facility might be located in a commercial zone district, provided a local host community agreement is reached. Sullivan stated he would check on this.

Sullivan will go through the siting criteria language, and make the changes as agreed upon at this meeting.

Hass asked who is responsible at these sites for generating standards as to how well it has to be buffered as to sight and sounds. It was stated that how it is buffered makes a real difference in how it is accepted.

For the next meeting, staff is directed to check on the items discussed, such as the land area requirements, setbacks, and buffering. He will bring information back to the next meeting.

He will also check with the DEQ as to how zoning can be used for criteria, not precluding the locating of the facility, but in setting standards based on which district it is to be located. He stated that in some commercial areas a facility would be suitable, but in other areas, such as downtown areas, it certainly would not. There has to be a way to differentiate where they would be allowable, and further research is needed to develop language for the siting criteria.

Sullivan asked the industry representatives present if they were interested in putting in a transfer station in the future.

Next meeting will be held on November 9, 1998, at which time the siting criteria will be further discussed.

Dan Skrzeczkoski moved, supported by Paul Lindberg, to adjourn at 9:02 p.m. Motion carried.

CHARLEVOIX COUNTY SOLID WASTE COMMITTEE
NOVEMBER 9, 1998

MINUTES

Meeting was called to order at 7:00 p.m., by Chairman Phil Johnson. Members present: Rankl, Lindberg, Stretch, Ferguson, Kurtz, Johnson, Patrick, Smith, Pizzurro, Skrzeczkoski, and Malpass.

Members absent: Ralph Richardson, (excused), Randy Frykberg, (excused), and Jamie Hass.

Others present: Sullivan.

Minutes:

In discussion, it was noted corrections needed to be made on page 3, paragraph 6, adding a question mark at the end of the first sentence, and then adding a sentence, to read, "Tom Rankl, Jamie Hass, and Don Pizzurro all answered yes to the question."

Moved by Ferguson, supported by Skrzeczkoski, to approve the minutes of the previous meeting, with corrections on Page 3. Motion carried.

Sullivan gave a report on the meeting with the multiple county solid waste group, and stated that an individual from Hillman Power, talking about burning wood for electricity. He stated they recently added up to 10% of the fuel stock as chipped tires, which makes the plant more efficient and creates less air pollution. They would like to increase the percent of tires to 20-25 percent of total fuel source.

The industry believes if they can get that 20-25% range use of tires, they would be burning up 8-9 million tires a year, which is about the number of tires that are generated as scrap tires in the State of Michigan per year. They are picking up tires from other places and the charge is \$2.00 each.

There was discussion about putting in bins or containers at transfer stations to hold the tires for pickup.

This group will meet again at a future date, which has yet to be determined.

Old Business:

Staff reviewed the siting criteria discussed previously, and went over the material he had handed out. He went over the changes that the Committee had made at the last meeting. He added a vegetative planting requirement to make sure you don't end up

with a solid wall or mesh fence around a facility. It was suggested that #9, sentence five should have added at the end "which will obscure the operational area". Also, in the next sentence of number 9, add the words "or if the facility is located in an area where adjacent industrial and warehousing obscures vision of the facility", following the word exempted.

On the last page of the proposed criteria, third paragraph, remove the last sentence in its entirety.

Discussion took place on the proposed wording. It was suggested that in #4, the word "regulated" should be inserted between "a" and "wetland". There was a discussion on the definition of wetland, and it was stated that sometimes it is based on the degree of wetness. Staff will check into the definition of wetland, and the Committee will give this more thought prior to the next meeting.

Motion by Skrzeczowski, supported by Strahl to have the following setbacks in the siting criteria for transfer stations. Setback from property line for transfer stations located in Industrially zoned areas - 30 ft. From property lines in Commercially zoned areas - 50 feet, from property lines in residentially zoned areas - 200 feet, the property lot line in an area zoned agricultural - 150 feet. Setback from a residence will be 500 feet. Change item 7 as discussed to show these changes.

Motion passed 6 to 5.

It was mentioned that there are three members missing, so this issue might be brought up again at a future meeting.

Survey:

Ferguson went over some changes she felt were necessary to make in the survey. Those changes will be made by staff.

Discussion took place on what happens if we don't get a consensus that people want it.

Ferguson stated this group has decided that recycling is coming, and we just want to get as much input as possible.

Next meeting will be December 14.

Meeting was adjourned at 9:00 p.m.

CHARLEVOIX COUNTY SOLID WASTE COMMITTEE

DECEMBER 14, 1998

MINUTES

Johnson called the meeting to order at 7:00 p.m. Members present: Smith, Malpass, Strahl, Frykberg, Rankl, Skrzeczkoski, Richardson, Patrick Ferguson, Johnson, Kurtz. Members absent: Hass (excused), Lindberg (excused), Pizzurro (excused).

Others present: Sullivan.

Moved by Ferguson, supported by Richardson, to approve the minutes of the previous meeting, as presented. Motion carried.

Moved by Ferguson, supported by Frykberg to approve the siting criteria, as presented, with the word "regulated" in number 4 stricken.

4 yes, 7 no, motion was defeated.

Moved by Richardson, supported by Skrzeczkoski to approve the siting criteria, as presented, motion carried 10-1.

Moved by Ferguson, supported by Kurtz, to not include siting criteria for a new Type II Landfill, nor for an expansion of any existing Type II Landfill(s) in Charlevoix County.

Motion carried 10 yes, 1 no.

Moved by Malpass, supported by Frykberg, to adjourn the meeting. Motion carried. Meeting was adjourned at 8:40 p.m.

SOLID WASTE PLANNING
APRIL 19, 1999
MINUTES

Meeting was called to order at 7:30 p.m., by Chairman Johnson. Members present: Smith, Strahl, Frykberg, Rankl, Skrzeczkoski, Richardson, Patrick, Johnson, Ferguson, Kurtz, Hass, Lindberg.

Members absent: Pizzurro and Malpass, both excused.

Others present: Larry Sullivan; Tom Wieland; Ardeth Wieland; Larry Levengood; Richard Hodge, East Jordan Iron Works; Debbie Johnston, Ken Rogers, Dave Barron (Waste Management).

Motion made by Frykberg, supported by Skrzeczkoski, to approve the minutes as presented. Motion carried.

Sullivan brought the committee up to date concerning the Waste Management request for an expansion to the landfill, and their withdrawal prior to the 3-29-99 public hearing. DEQ staff informed the public that the public hearing was cancelled, but they would listen to comments. Staff understands the company is reevaluating their options, and is not certain what the status is, whether they will resubmit or not. The company representatives stated that is up in the air at this time.

Staff reported on a call from a waste hauler in early April. The hauler stated that he had received a notice that the landfill would be taking no further waste from the hauler. The current word from Waste Management is that the landfill has a contract with East Jordan Iron Works and they need to retain the space at the existing landfill to fulfill that contract. Waste picked up by Waste Management will be going to the Emmet County Transfer Station, for possible transporting to their Waters facility. DPW Director Selzer, in Emmet County stated she felt the additional volumes of waste coming in to the transfer station could be accommodated.

The existing waste plan provides for three Type A transfer stations in the County, one on Beaver Island, one at the landfill or between the landfill and East Jordan, and on US 131 between the Village of Boyne Falls and Walloon Junction. There is the ability in the existing plan to license transfer stations in the county. There is no limit on the number of type B facilities that can be established in the county. Top Rank has indicated they are interested in putting in a Type B facility in the near future.

The representative of Waste Management, Debbie Johnston, stated the company would be issuing a letter to the newspaper to let everyone know what the status is at the landfill. The company pulled the permit request as they felt they needed more time to work with everyone before it goes any further. She explained the need to keep the

capacity for the East Jordan Iron Works because they have a contract with them to provide for their waste disposal at the Cedar Ridge Landfill.

The company had withdrawn the request, but can resubmit it in the future. That would be under the existing plan, not the one we are working on. Ferguson asked if we finish the plan up tonight, would the request, if it is resubmitted, be made under this new plan? Sullivan stated he would have to research that point.

Recycling survey - updated ^{mailing} list is now ready. Staff stated he did not feel comfortable with using the previous list. Staff will begin to sort through the labels and it will probably take a month and one half to get the results tabulated following the return of the surveys. He stated he felt the method of paying for the recycling could be determined following the input on the survey.

Discussion took place on the siting criteria previously discussed.

Policy Statements:

Strategy 1.5 was discussed, as being needed to be changed. Staff asked if a statement was needed as to why no criteria is needed by Type II Facilities. It was suggested that the criteria would be used to identifying potential sites for solid waste facilities for Type III Landfills and Transfer Stations.

In discussion on the Goals and Objectives, it was decided to change Strategy 1.5 to read: Develop and include a siting criteria for use in identifying potential sites for Type III Landfills.

Strategy 1.6 – Develop siting criteria that allows for transfer stations in those communities that so desire an alternative to collection, and to allow waste hauling companies to combine loads from smaller trucks to allow for economical methods of moving waste in addition to reducing truck traffic.

It was also decided to insert percentages of material to be recycled provided by RRSI.

In Objective II, strategy 2.4 should be changed to 2.1, and changed to read "Develop a series of recycling centers and drop-off locations and encourage the public to increase levels of recycling of all materials, including, but not limited to paper, metals, glass, oil and plastics."

Number the strategies as determined at this meeting.

Strategy 3.3 – Change to read "Require the development and enforcement of laws, ordinances and regulations at the County level, and encourage similar actions at the

state, city, village, and township levels in order to govern the location of, appearance, odor, noise, and other public health and aesthetic impacts resulting from the collection, storage, transportation, processing, and disposal of solid waste."

Strategy 3.4 - Change the word "encourage" to "Require".

Remove existing Objective IV, moving strategy 4.2 back to Objective I.

Renumber Objective V to Objective IV, adding the words "and environmentally sound" between the words "feasible" and "for".

Renumber the rest of the strategy numbers in this Objective.

In Strategy 4.6 – Add the words "reuse and" between "the" and "recycling", remove the words "and sale", and place a period following the words "waste stream."

Motion made by Jamie Hass, to approve the goals, as amended, supported by Randy Frykberg. Motion carried.

Enforcement Issues:

Ferguson asked what we are talking about when we speak of enforcement. Is it for well inspections, noise, etc.? She stated we need to know who to call for what problems.

It was stated that it would depend upon which problem you are discussing. Ferguson asked if it is appropriate to list the correct person to contact, so that the average citizen would know who to call for each problem.

It was decided to develop a table that details enforcement for each of these issues:

Landfills

Transfer Stations
Collection Vehicles
Recycling drop off locations

Ferguson stated she wanted to know if our health department is certified, as mentioned in Part 115, of PA 451 of 1994. Sullivan replied that it is not certified.

Levengood, a member of the audience and an employee of the Health Department), stated that there are so few landfills now in this area, and given the lack of state funding, it is doubtful the health department would become certified.

Levengood stated there are aspects in the solid waste industry that does fall under the Health Department.

It was stated that in the future, if it is felt we want someone to monitor the landfill, there could be a person hired with possible funding between the landfill and the hosting county.

There should be a hierarchy of complaints as to who should be contacted first, and then if no action is taken, you could go to the next step of authority.

It was stated that once the list of enforcement agencies is printed, it should be made available to township, city and village elected officials, as well as printed in the paper, etc.

Staff stated usually counties pay for the enforcement with surcharge fees on waste generated within the county or disposed of at landfills within the county.

General Discussion:

Staff stated he had spoken with the DEQ recently, and they have put a moratorium on approving any solid waste plans, and they do not know how long the moratorium will continue. This was a result of the threatened litigation from the trade association for the Michigan Waste Industry. The DEQ has requested an opinion from the Attorney General's office, and it could take a while for a response. Staff indicated that 60-90 days would not be unreasonable. Leelanau County feels they will have had their plan in for six months prior to the end of the moratorium, and will send the DEQ a letter at that time, stating they consider their plan approved. The DEQ has six months to approve a plan, or it is considered approved, if nothing has been done on it by the DEQ.

Staff stated he has heard that if county plans are approved, the waste industry will attack the smallest counties with suits, as they will have a harder time fighting the case in court.

Discussion was held on surcharges, how they are put on and how the money can be used.

Staff stated at the next meeting, he would have most of the plan ready for the committee.

The next meeting will be held on May 24. He stated he did not feel it was necessary to have the survey finished by the meeting, as we can add the input from the surveys at a later date.

Skrzeczkoski moved, supported by Ferguson, to adjourn at 8:45 p.m. Motion carried.

SOLID WASTE COMMITTEE
MAY 24, 1999

MINUTES

Meeting called to order at 7:00 p.m., by Chairman Phil Johnson. Members present: Richardson, Frykberg, Hass, Pizzurro, Kurtz, Ferguson, Lindberg, Rankl, Malpass, Smith, Skrzeczkoski, Strahl, Patrick, Johnson.

Member absent: Don Smith.

Others present: Diana Walls, Joe Tymoc, Debbie Johnston.

Approval of Minutes:

Moved by Randy Frykberg, supported by Paul Lindberg, to approve the minutes of the previous meeting. Motion carried.

Public Comment:

Diana Walls spoke on her concern over a lack of recycling, and felt there is a need for it.

Recycling Survey

The Solid Waste Committee members completed the recycle survey the Planner handed out. He stated he wanted to get the feelings of the public, the solid waste committee, and elected officials.

Sullivan stated that the decisions on recycling can be made during the three month review process, and can be incorporated into the plan at that time, before final approval. He stated we had mailed out 1500 surveys, and the results will be tabulated by Cooperative Extension Service, and he will bring the results back to this Committee. Staff feels that within 30 days, we should have the survey complete.

Funding of the recycling is a big question, and who should be responsible for seeing that recycling is done, and financed. Discussion took place on what level of government should be responsible for recycling. It was felt that

the County would be the most appropriate level of government, in order to get wider coverage. How it could be funded was discussed again. Ferguson stated she felt it should be paid for through taxes, as that would get everyone involved. Each community could have a referendum to overturn the decision to use taxes, so some would be covered and some would not. Sullivan discussed some of the pros and cons of the taxing question. Emmet County pays for theirs by a charge at the transfer station, and if their costs increase, they simply increase fees.

Ferguson asked for clarification as to whether or not we would be taking our recycling to Emmet County. Sullivan stated it was his opinion that the county would be taking their recycling to established facilities in other counties. For established recycling in the county, there can be some cooperation or payback for the community already providing a service.

Composting was discussed briefly, with the planner stating all three cities and Beaver Island providing that program. He feels the plan should stress utilization of these services. We should also encourage residential composting, and perhaps purchasing and selling compost containers to enable people to do it.

Enforcement:

Staff explained that he felt it unwise to list individuals in the Plan who enforce parts of the plan, but rather a general list of what department, etc., would be responsible. Ferguson stated that one of the biggest problems is to find the correct phone number in the Plan, but felt it should be in the newspaper a couple times a year, to make it easier to reach the DNR, etc. It could also be published in the phone books, and with recycling information.

It was suggested that the list of agencies be reworked to make them in the order of contact. Sullivan stated there could also be included phone numbers of garbage haulers, so if something falls off a truck, they will know who to call right away. Sullivan asked if there are enforcement tools available, and are there people available to administer them.

It was stated there is a new regulation that all Health Departments in the State must be certified by next year.

Sullivan stated the question is "certified for what?" Discussion took place on exactly what the new regulation means, as there are many things the Health Department has to be certified for. Sullivan stated if the Health

Department had to be certified for Solid Waste inspections, then the waste company would have to apply to the Health Department, rather than Lansing. He is not sure this is what the new regulation refers to.

Discussion was held on weight restrictions on the road. Hass stated he felt this is a problem for companies, and should have some wording in the plan so that blanket periods of weight restrictions should not be put on. He felt there should be more leeway.

It was stated the Solid Waste Plan cannot dictate to the Road Commission.

Richardson stated he did not feel he should have to drive over bad roads, to let an empty truck that is overweight run on them. It was felt this is an issue that should be taken up with the Road Commission.

Discussion was held on whether there should be an ordinance against burning garbage. It was stated there is already a state law which prohibits it already.

Sullivan asked if the Committee felt there should be someone from the County that should be out enforcing the plan, or if the committee felt there are adequate enforcement agencies already. It was stated that there should be that possibility in the plan, but not mandatory. Then if the County feels one is needed, it could be developed.

Sullivan stated littering is probably the most common problem, and maybe the Sheriff's Department might need to be pushed a little more to enforce. One member suggested that the Sheriff's Department is becoming more environmentally educated and is more willing to enforce violations. It was asked if we need a host agreement for a transfer station as was needed for a landfill.

It was stated that you can enforce hours of operation, setbacks, etc.

Discussion was held on how often landfill sites are checked, once the landfill is closed. Sullivan stated it varies, but if a problem occurs, and you only check every few months, it could already harm the environment. He stated that if there is someone on site, they would most probably pick up problems on a day to day basis.

tion was asked about the burners, and what happens when they go out? That could present a smelly problem, ne is on site. It was stated there could be an automatic re-light system.

in stated the County does have the power to enforce Part 115 of the Natural Resources and Environmental They could initiate legal action if there are violations occurring at a landfill. Anyone could bring the problem the Prosecuting Attorney for action. It was asked if the DEQ takes precedence over the Prosecutor in ement. Sullivan stated the DEQ might give prompter action, sending a field person out, and then he might st action by the Prosecutor.

an stated the DEQ has the power to levy fine, but their primary intent is to enforce compliance, not to close business down. Sullivan stated he feels an Ordinance is not necessary to enforce the Plan, because State laws ly exist to enforce it.

s stated that the Committee feels there are adequate enforcement options, but would like to have the ability in an, to hire a enforcing officer, at the county level.

eczkoski moved, supported by Ferguson, to include enforcement possibility in Plan, leaving option for a county ance to enforce the plan, county enforcement officer, and reorder the list of enforcement agencies. Motion ed.

Timok, transfer station attendant in Boyne Falls, spoke on the operations at the Boyne Falls Transfer Station. mentioned the problem with enforcement of litter, because the people who drop it, deny they did it.

er Issues:

if reported he received a letter asking for a letter of consistancecy for Transfer Station

obie Johnston was present to answer any questions members might have.

Kurtz asked about the amount of truck traffic coming in. She said it is a concern by many of the neighbors of the landfill. She asked if Waste Management plans to truck in materials from all the other counties and haul it to a transfer station here, if allowed.

Pizzurro stated they needed the flexibility in case they are in the area with a partial load, etc., it would be better to be allowed to use a transfer station here to handle it.

Discussion took place on the letter from Waste Management, and what it would mean. Johnston stated the company just wanted to keep its options open. It was mentioned that Waste Management would only be adding three counties.

One member stated he had concerns that Waste Management might get the transfer station, get the extra counties into the agreement and we would end up getting waste from all of those counties. The language needs to be cleared up, to make it perfectly clear what is being approved.

The question was asked where the letter of consistency should go. Sullivan stated that should go to the County Planning Commission. In terms of modification of the service area, that would have to be addressed in the Solid Waste Plan. Sullivan stated he feels the new plan will get through faster than an amendment could be made to the existing plan. Sullivan stated the three issues to be discussed are: 1) Letter of consistency for Transfer Station, 2) Service Area, and 3) Type III Landfill.

Nancy Ferguson moved, supported by _____ to adjourn at 9:17 p.m. Motion carried.

A question was asked if all municipalities have addressed solid waste issues in their zoning ordinances. Sullivan stated not all of them, but some have, and he has some excerpts from some of those. Discussion took place on how the lack of addressing these issues will affect the plan. Sullivan stated if a municipality has not allowed for it in their ordinance, it would be allowed in the agricultural district. But those ordinances that do contain language specifically allowing landfills or transfer stations in another district, they would be allowed only in those.

A question was asked about Emmet County's Plan as to where they allow landfills. Sullivan stated he has not researched their Plan.

Kurtz

Motion by Skrzeczkoski, seconded by Ferguson, that it read landfills must be located in areas appropriately zoned for that use, or if a community has not located an area for that use, it should be located in the agricultural zone district.

Discussion was held and it was asked why are we addressing this issue. One member stated we should just leave it alone.

Second to the motion is withdrawn.

Moved by Skrzeczkoski, seconded by Ferguson, that landfills must be located in any appropriately zoned for that use. Motion carried.

The question was asked if we had not talked about having an enforcement officer. It was stated that we had. It might happen down the road that we may need to have an enforcement officer, and if we need one, that could still be done.

Moved by Ferguson, seconded by Rankl, to include language in the enforcement section of the plan as follows: "Recommend periodically putting in the newspaper listing enforcement agencies and their telephone numbers." Motion carried with one no vote.

A question was asked on page 101, second paragraph, and it was decided to add after Part 115, "of P.A. 451 of 1994, as amended."

Following a brief discussion, it was suggested that Melrose Township Ordinance # 1, on the transportation of trash in uncovered vehicles be added.

Sullivan stated that while the Plan is out for public review, he would contact all municipalities and note any additional ordinances of a similar nature. If there are, and the committee desires, they can also add these to the plan.

Sullivan gave a summary of how the public hearing works.

Duties and responsibilities were put in so that if the committee feels more is needed to enforce the plan, that could be addressed.

Sullivan asked the committee if it was felt that we should put something in the Plan to address franchising. It was decided that staff should research this issue and it can be decided following the public hearing.

It was discussed how franchising would work. A question was asked if a company could just service the convenient areas but not those that would be more difficult to service. It was stated this could be controlled by franchising agreements.

Sullivan stated his intent in bringing this issue up was not to mandate it, but to allow it if communities wanted it.

Sullivan stated page 109 would be filled in from some technical material. Under costs and funding on 112, they will be determined by the recycling committee to be set up by the County Board, and material from RRSI.

Moved by Dan Skrzeczkoski, seconded by Eric Strahl, to set a public hearing for January 24th, and February 7, 1999 for a meeting date for the Solid Waste Committee to review the comments from the Public Hearing and make any needed changes in the Plan. Motion carried.

Jamie Hass moved, seconded by Don Smith, to authorize release of the Plan for public review. Motion carried.

Sullivan suggested the members consider attending some of the township meetings, in order to encourage approval by the local groups.

Motion by Dan Skrzeczkoski, seconded by Tom Rankl, to adjourn at 8:22 p.m.

A vegetative planting shall be established and maintained, outside the screen or buffer to enable it to blend into the area. The vegetative planting shall consist of a mixture of coniferous trees of differing types which have a minimum height of six foot each at the time of planting, which will obscure the operational area. A naturally vegetated site having tree growth which will obscure the man made buffer may be exempted from the planting requirements, or if the facility is located in an area where adjacent industrial and warehousing obscures the vision of the facility. Exemption decisions shall be rendered by the Charlevoix County Planning Commission.

Distance from Surface Water - a minimum of 2,000 ft isolation distance from lakes and/or permanent flowing bodies of water and 500 feet from any water impoundment and/or intermittent flowing bodies of water as depicted on the Michigan Resource Inventory System (MIRIS) Maps for Charlevoix County, dated 8-25-89. These setback requirements do not apply to drains and sedimentation ponds.

Proposals by private or public entities to construct or expand Type II landfills shall be deemed to be inconsistent with this Plan.

The issue of zoning in regard to the siting criteria was discussed. Sullivan stated that all communities must provide for all types of uses, and the DEQ has already determined that a community has not provided for landfills in their area. Richardson brought up the point that the City of Charlevoix could not provide for a landfill.

Motion carried, with Malpass voting no, and Smith abstaining.

Motion by Nancy Ferguson, seconded by Frykberg, that all Type II Landfills operating when this plan goes into effect, or are constructed after this plan goes into effect shall pay a per yard surcharge as determined by the County Board of Commissioners. Monofills shall be exempt.

Motion carried, with 11 yes votes, and 2 no votes.

Richardson asked Johnson about his communication from Waste Management concerning the letter where they had said they would not allow us to use their air space for planning purposes.

Johnson stated they had not rescinded it yet.

The next meeting will be October 4, 1999.

Motion by Hass, supported by Patrick, to adjourn at 9:10 p.m. Motion carried, with Ralph Richardson voting no.

CHARLEVOIX SOLID WASTE COMMITTEE

OCTOBER 4, 1999

MINUTES

Meeting called to order at 7:00 p.m. by Chairman Johnson. Present: Johnson, Smith, Strahl, Hass, Rankl, Lindberg, Ferguson, Kurtz, and Skrzeczkoski.

Members absent: Richardson, Frykberg, Patrick, Malpass, and Pizzurro.

Minutes:

Changes were made in the minutes on page one correcting the spelling of Kurtz, and adding the names of other members present that had been left off. Also, insert the name Frykberg on page 3, where there was a blank.

Strahl moved to approve the minutes of the previous meeting, as amended. Rankl supported, and motion carried.

Correspondence:

Letter from D.E.Q. advising us that we have a new liaison person for solid waste matters. His name is Stan Idziak.

Letter from East Jordan Iron Works, from Tad Malpass, resigning from the Solid Waste Committee, as he feels he has nothing further to offer to the committee.

Ferguson asked if we need to address the letter from Eveline Township going on record in opposition to the current request by Waste Management for expansion of the landfill and for addition of a transfer station at the present location. Sullivan stated this letter will be forwarded on to the County Planning Commission as a part of their review on the 14th or 20th of this month. He stated the Commission has to act within 60 days from agreement it is consistent with the plan.

Discussion took place on what is left of the process. Sullivan stated we would need at least one more meeting to address issues that come up at the Public Hearing.

Enforcement:

Sullivan stated the Siting Review Procedures handed out tonight are to replace the ones that were changed at the last meeting.

Sullivan stated that in terms of enforcement of the plan, we have developed a list of the agencies that have responsibility for enforcement. He stated one issue we did not put to rest is how we are going to utilize zoning.

CHARLEVOIX COUNTY SOLID WASTE COMMITTEE

SEPTEMBER 13, 1999

MINUTES
(as amended)

Meeting was called to order at 7:00 p.m., by Chairman Phil Johnson. Members present: Ferguson, Johnson, Kurtz, Smith, Skrzeckoski, Lindberg, Rankl, Malpass, Strahl, Patrick, and Hass.

Motion by Ferguson, seconded by Strahl, to approve the minutes of the previous meeting, as amended. Motion carried.

Recycling bins were discussed, with the note that the amounts that go into them depend upon their location, the time of year, etc.

Discussion took place on the amount of the surcharge that is being planned. Staff stated different areas have different ways of determining the surcharge for different types of recycling material, depending on the price the company is getting for the recycled materials.

Ferguson questioned the second paragraph on the last page of Sullivan's summary on recycling survey. She stated it is somewhat confusing. Residents don't always understand that they will have to pay for it someday.

It was discussed how the Board of Commissioners would put the charge on residents. Sullivan stated it is possible to levy an amount on each parcel in the county that has a residence on it. Public Act 38 allows an amount not to exceed \$25.00 per year on properties in the county that have residences. However, it is subject to referendum on a community by community basis, which means one community can agree, and the next one over will say they are not willing to pay anything.

Grand Traverse charges 50 cents on every yard of waste that is generated in that county. Different counties use different method. One hauler stated he has a problem with the bookkeeping that is required of the hauler if the cost is collected by him.

One member stated that he did not feel it was this Committee's responsibility as to how to pay for the recycling. He feels the Committee should make some recommendations, but it will be up to the County Board or someone else to determine the way to pay for it. He thinks we have the general direction and we should not keep going over the same material, but need to move on.

Nancy Ferguson moved to recommend establishing dropoff locations, at a minimum in all the three cities, the two villages, and on Beaver Island. Supported by Prudence Kurt. Motion carried.

Ralph questioned the need to include detailed language in the Plan as to the specific way to recycle. We do not need to have how it going to be done, how to pay for it, etc. It was stated the County Board should set up a committee to make that determination. Dan Skrzeczkoski moved, supported by Ralph Richardson that the County Board set up a committee to determine how to fund and operate a recycling program in Charlevoix County. Motion carried with Don Smith and Jamie Hass voting no.

Siting Criteria:

Page 92 was discussed. A question was asked about the berming and screening that was previously discussed. It did not appear here. Nancy stated we need to have something to prevent the height of the facility going above everything around it.

It was stated that on page 92, the Distance from Surface water should read 2,000 feet instead of the 1,500, as currently shown on this page.

The question was raised regarding the need for a Type III Landfill for Charlevoix County. Waste Management has said they cannot operate one with just waste from Charlevoix County. A lot of the construction waste can be recycled, so are we addressing a problem we do not have.

With Waste Management making access available and unavailable, maybe we don't need a Type III.

Richardson stated that at the last meeting it was decided to give the sub-committee the direction to give Waste Management a six year limit and at the end of that six years when the Type III was supposed to close, the type III waste would then go through the transfer station. He felt that if it is going there to be run through a transfer station in six years, why not put it there now. He stated he did not know why we were working so hard to provide something that is going to discontinue in six years.

The question was reiterated, "Do we really want a Type III facility?" It was mentioned that one reason it is in there is for East Jordan Iron Works in case they need it. It was mentioned that Waste Management can close the facility anytime to everyone but their own trucks, then the local haulers cannot use it, it would not be good to have. If they get one, there should be a requirement that it be open to everyone.

Discussion took place on whether the County Planning Commission might find the request in compliance with the Plan. It was stated by Ralph Richardson that the request is outside of the approved 40 acres, so cannot be in compliance.

The question was asked if the County has to get into the business, should that possibility be included in the Plan.

Motion by Skrzeczkoski, supported by Nancy Ferguson, that the following criteria must be adhered to by any governmental entity that proposes to operate a Type III Landfill open to the public and any private company that desires to develop a monofill for disposal of wastes generated by that company within the county.

Type III: 8 acres for 6-8 years, with unlimited counties allowed to use the facility.

Waste from customers would be accepted at posted rates.

Allow for a Type III for Beaver Island, and 2 monofills, one for Medusa and one for EJIW, if needed.

Transfer Stations: Unlimited number of Type A if they comply with agreed upon siting criteria.

Surcharges - One rate for Type III in county waste, double for out of county Type III waste.

Surcharge waived for monofills owned and operated by waste generator.

For transfer stations, all rates equal for in and out of county waste.

Surcharge funds will be used to fund recycling, household hazardous waste collection days, and solid waste/recycling coordinator/enforcement person.

Recycling: County coordinated or operated drop-offs, 1 in each City, 1 near Boyne Falls, 1 near the Village of Walloon, and 1 on Beaver Island.

HHHW: Collection days quarterly, with flexible locations, in each city, on Beaver Island, etc.

Motion by Skrzeczkoski, supported by Smith, to have staff work this material up as the plan, and send it out to the members in time to review it prior to the next meeting. Motion carried.

Ferguson stated the sub-committee should contact Waste Management, and tell them this is what came out of the meeting and what they are directed to do by the Solid Waste Planning Committee. Then if Waste Management gets back to the sub-committee, at the next meeting, the committee will have time to get their work done.

Motion by Don Smith, supported by Paul Lindberg, to adjourn.

Motion carried.

reported that Waste Management had said they were going to do it, but have not done so, in writing, to this point.

Hardson stated he felt the Committee has to decide if we are going to amend the existing Plan, or do a new Plan. If WM is going to expand outside of the sited acreage, and the township is going to go along with it, then we need to amend the plan. Then we need to get them to agree to meet the requirements in the new plan we are going to do.

Sullivan stated that there are two ways to look at it. We can look at it with the new plan, but aren't moving too fast on that. Another way to amend the existing plan to provide for a few of those things that the committee is in agreement with, to get those things over in a quick fashion. Then this Committee can spend more time dealing with some issues.

Type III Facility is an immediate issue, as is the Siting Criteria for Type III Transfer Stations, Waste Management is proposing a Type A Transfer Station, and have said they are willing to comply with the requirements for this draft plan. Maybe we should get that on the table and take action, so the waste firms will know what they are dealing with.

Some issues to be dealt with are zoning and enforcement, which may take some time. Sullivan stated he had spoken with the DEQ this morning as to what it would take to amend the current plan, and if they would accept an amendment. They would, but there is a question as to whether they would require it to be in the new format they are requiring or not.

A discussion was held on how the amendment could be done, including what would be needed to be put into the amendment. Siting criteria is different for transfer stations and landfills, so this would have to be looked at in an amendment.

Hardson stated that the proposed Type III Facility by Waste Management is out of the sited area, and is not consistent with the

existing plan. Therefore, he stated we would have to amend the plan, or look at it under the new plan.

Rankl stated that he is not allowed to take waste to Cedar Ridge. He stated he has made adjustments, had expenses, etc., to take care of his Charlevoix customers, by taking it across the state to another facility that is glad to accept the waste. He felt that if there is a Type III facility allowed, it should be stated that it is open to everyone.

Dan Skrzeczkoski made a motion, supported by Eric Strahl, to recommend to the sub-committee that Type III Landfill with a maximum of 8 acres, but following ridgeline, with a maximum lifespan of 6 years, no limitation on counties or geographic area the waste can come from, and all the other issues left to be decided to continue to be dealt with by the sub-committee.

On a roll call vote, Pizzurro and Rankl voted no; Richardson, Lindberg, Skrzeczkoski, Kurtz, Ferguson, Smith, and Strahl voted yes; and Patrick and Malpass abstaining. Motion carried.

The question was asked if this is not acceptable to Waste Management, what is their alternative?

It was stated that the company could come back and say they cannot do it with the six-year deadline, and make an argument for that.

Sullivan stated he had the solid waste plan on one sheet of paper. He was asked to read it, and it is as follows:

For Type II: Primary facilities to be located in Presque Isle, Montmorency, Crawford, Leelanau & Clare Counties.

Contingency facilities in Wexford and Manistee Counties.

Also provide for a county owned and operated Landfill should the need exist.

Old Business:

1) Attitude Survey:

Sullivan reported on the fact that all of the survey responses have been entered into the computer, as of this noon today. Results will be forthcoming within the next few weeks.

Sullivan will be working with Cooperative Extension to compare information in different ways, to see what the majority would support within the county.

2) Host Community Agreement:

The Sub-Committee work was reported upon by Nancy Ferguson, Jerry Puhl, Paul Lindberg, and Dan Skrzeczkoski. The agreement as presented was discussed, and it was stated that it lacks property guarantees, and no specific dollar amounts were decided upon.

The letter from Waste Management had been handed out to the members. Skrzeczkoski is a township representative to the Committee, and he stated the township board would possibly consider an expansion of a 5-6 acre for 5-6 year time period for a Type III Landfill. They might bend a little bit on it as there is a natural ridgeline which was thought to be in the 5-6 acre area. As Waste Management states the ridgeline fits in an 8-acre area, the township might go along with that acreage, although he has not spoken with the entire Township Board about this matter.

Through the meetings that the committee held, the acreage was changed to 8 acres, it was decided to have it capped at the end of 8 year with a maximum height of 844 feet, there will be further landscaping on the side that the Type II landfill is located; and specific closure date and legal documents stating that in 8 years time this will be closed. A Type II liner will be put in for the Type III Facility. The counties that were to be involved were Emmet and Charlevoix County. In addition this agreement would be legally

binding on any future owners or operators of the facility, as well as Waste Management. This closure date should be set forth in a deed restriction, which would be duly recorded, and remain in place in perpetuity for the benefit of both the County and the Township. Any land owned by Waste Management surrounding the site will be put into land conservancy, there will never be another expansion or new landfill request for Section 19, Eveline Township. Waste Management will be making a binding agreement with Charlevoix County on a long term basis, available landfill air space capacity at its other disposal facilities within the state of Michigan, including the Waters Facility. Also the surcharge charged at the landfill will be made available to fund a recycling program, and Waste Management will continue monitoring of the landfill.

Waste Management's latest proposal was discussed thoroughly by the Committee.

One point of main concern is that Waste Management is suggesting no limitation on the source of the incoming Type III materials, which this group has never spoken in favor of.

Also with the screening on the western boundary, it was felt there should be both berming and screening on two sides. It was stated that Waste Management's proposed agreement only met what this Committee has wanted with three paragraphs.

Charge for in county waste as compared with out of county waste. The figures \$1.00 and \$5.00 were discussed. It was stated that if a surcharge is charged, it should be charged to everyone who brings waste in and the charges should be uniform.

Discussion was held on whether or not Waste Management could be expected to guarantee land values.

It was stated that the sub-committee has not come to an agreement with Waste Management on all issues at this time. There are still issues to be worked. The letter from Waste Management concerning closing the Waters Landfill to Charlevoix County was discussed, and it

It does happen that paint cans, etc., will go in to Type III Landfills, but the facility would be risking their license if it is found that this is happening. Everyone agreed there should be more protection against groundwater pollution, etc.

Sullivan noted that there have been disagreements on the accuracy of the MIRIS maps, and we should not hang our hat on that.

Ferguson stated that the host agreement sub-committee would be meeting with Waste Management on the 21st, at 10:30 a.m. She stated she is proposing the full solid waste committee meet August 2.

Staff suggested the group look at pages 60 through 83 for the next meeting, including the siting criteria, and enforcement. He mentioned surcharges as having been discussed in the past as a way to pay for recycling, and the survey did have this in it, as a question.

There being no further business to discuss, Malpass moved, supported by Don Pizzurro, to adjourn. Motion carried.

CHARLEVOIX COUNTY SOLID WASTE PLANNING COMMITTEE

AUGUST 2, 1999

MINUTES

The meeting was called to order at 7:10 p.m., by Vice-Chair Nancy Ferguson, in the absence of the Chairman Johnson. Members present: Ferguson, Richardson, Kurtz, Skrzeczkoski, Lindberg, Rankl, Malpass, Pizzurro, Strahl, Smith and Patrick.

Members absent: Johnson, Hass & Frykberg.

Also present: Larry Sullivan, Larry Levensgood, Jerry Puhl, and Dave Barron, and Steve Essling.

Public Comments: None.

Approval of minutes:

In discussing the minutes of the previous meeting, a correction was made on page 2, last paragraph. The second and third sentences should read: "The Plan and any host community agreements can require the same siting criteria for a Type III Landfill as for a Type II Landfill. It was stated that construction waste is allowed to go into a Type II Facility."

Motion by Dan Skrzeczkoski, supported by Kurtz, to approve the minutes of the previous meeting, as amended. Motion carried.

Correspondence:

The only item of correspondence is a letter faxed in July 27, and can be dealt with under old business.

CHARLEVOIX COUNTY SOLID WASTE COMMITTEE
JULY 12, 1999

Amended

MINUTES

Chairman Johnson called meeting to order at 7:00 p.m. All members of the committee were present.

Others present: Sullivan, Levensgood, B.J. Hetler, Nate Jason, A.O. Woods, Jim Frey, and Andy Sneddin (Courier Editor).

Public Comment:

None.

Minutes:

Motion by Richardson, supported by Frykberg, to approve the minutes of June 7, 1999, as printed. Motion carried.

Correspondence:

Letter from Assistant Prosecutor of Presque Isle County, questioning the reciprocal agreement they signed with Charlevoix County approximately seven years ago, regarding the flow of waste between the two counties. He felt Charlevoix County has no landfill or transfer station to service Presque Isle County, the Charlevoix County Solid Waste Plan contains no siting criteria, and Charlevoix County has not promoted a program of recycling, composting and collection of household hazardous waste.

Sullivan outlined the Charlevoix County response to that letter.

Letter from Waste Management regarding expansion of the Cedar Ridge Landfill, stating that waste from Charlevoix County can still go to Waters, but that it would not make available landfill airspace capacity at the Waters Landfill in Crawford County for purposes of Charlevoix County's current or future solid waste planning.

Sullivan stated there has been some subsequent discussions concerning this letter, and he thought the letter might be rescinded by Waste Management, based upon those discussions.

Letter of consistency was sent to Waste Management, addressed to Debbie Johnston, stating the Type A Transfer Station they are proposing is consistent with the Plan, as determined by the County Planning Commission on July 1, 1999.

Attitude Survey:

Staff stated we had mailed out 1508 surveys, and received just over 50% back, which are being tabulated. Cooperative Extension is doing this for us, and have said they

should be finished with the tabulation shortly. Staff stated he had looked at a number of the replies, and stated a lot of them are supportive.

Host Community Agreement:

The sub-committee dealing with this has been meeting, and gave an update on what had occurred at the meetings. The sub-committee said it was an ongoing discussion, and it has been difficult, with the June 2nd Waste Management letter we received was viewed as not pleasant and possible extortion. The sub-committee did respond, and the committee feels the next meeting should see these points beginning to jell.

Sullivan stated Waste Management indicated they are willing to rescind the June 2 letter, and are willing to provide 20 years of capacity to be used by Charlevoix County, at the Waters facility. It was felt this would be binding, so we don't get in the position presented by the letter.

Sullivan had spoken with DEQ concerning the ability of Waste Management to deny Charlevoix County the use of the Waters Facility. He stated this is a concern he has.

Pizzurro stated the decision was made today to allow their trucks to go back in there today. Sullivan asked if the landfill was open for everyone. Pizzurro stated he did not know, he just knew that he could take his trucks back in.

In going through the import/export authorizations, page 7 should be changed as shown on the attached page, based on discussion at the July 12 meeting.

It was moved by Don Smith, supported by Randy Frykberg, that we delete 100% for Antrim, Emmet, Manistee, Montmorency, and Oscoda, and accept 70 yards per day unless home base is located in Charlevoix County. If that is the case, an unlimited quantity could flow through the Transfer Station. Motion carried.

Motion by Randy Frykberg, supported by Tad Malpass, to amend the authorized daily quantity from 70 cu yds to 100 yards per facility. Motion carried with 1 opposed.

On Table 1-B-4, Randy Frykberg moved supported by Don Smith, that any transfer station which accepts waste from a mechanically unloaded vehicle shall be required to be licensed as a Type A Transfer Station, by January 1, 2003.

Motion carried. One nay.

Following a brief discussion, it was moved by Don Smith, seconded by Nancy Ferguson to use the same wording in Type A Transfer Stations as was used in Type B Transfer Stations. Motion carried.

Discussion was held on the differences between the requirements for siting criteria for Type II and Type III Landfills. The Plan and any host community agreement can require the same siting criteria for a Type III Landfill as for a Type II Landfill. It was stated that construction waste is allowed to go into a Type II facility.

ick, and Phil Johnson voting no. It was 6 no and 6 yes. Motion failed
tie vote.

asked if Waste Management would go for the Type II at a later
Pizzurro stated that is not going to happen.

ivan stated they would have to go through the permitting process to
any facility. He stated it is very difficult to determine how much
struction demolition waste goes to a facility. He said you could not
ermine how much is 50 %, and thought it would be better to set the
ount of yards from the counties that are allowed in annually.

ussion took place on what happens after the landfill closes, the site still
ds to be monitored. They have to monitor it for 30 years, but if a Type
is out there, it would still keep Waste Management there, making sure
facility is still working properly. This is a concern that WATCH has.
ey will be meeting on this in the future.

ry Cooney, of Waste Management, stated this will be the last request
arlevoix County will get for this facility, and they will put that in writing.
stated he did not know how many acres, or the configuration at this

ldberg stated that in the past, Waste Management was willing to offer
roperty guarantees, and wondered if they were still willing to do that.
aste Management stated they are.

was reiterated that the Transfer Station would be sited on the permitted
nsed 40-acre site, where the maintenance and offices are now.

oved by Don Pizzurro that Vic Patrick and Paul Lindberg be appointed to
rve on a committee to establish a host community agreement, and bring
at agreement back to the committee for consideration. Supported by
in Skrzeczkoski. Motion carried with 1 no vote.

ne meeting will be held on June 16.

ansfer Station Type B's were discussed next. Sullivan read from the
an listing those that are in the plan.

There is a law that is coming on the books, that will require hand unloading of trucks at a Type B Facility, which may allow more counties to bring waste in.

Ferguson moved to make the wording the same as on page 1. The motion died for lack of a second.

Motion by Don Pizzurro, supported by Tom Rankl, to move Emmet County from contingency to primary. Motion carried.

On page 4, the first O, should read "may include".

Following a discussion, a motion was made by Frykberg, supported by Richardson, to delete the second O on page 4, concerning manually unloading at Type B Transfer Stations.

Motion carried.

Discussion took place on import volume authorization of solid waste to Type A Transfer Stations, listed in Table 1-B-3.

Motion made by Don Pizzurro, supported by Tom Rank, to delete Manistee, Montmorency, and Oscoda, referring to 4.2 strategy.

Ralph Richardson left the meeting at 9:36 p.m.

Motion failed on a 5-6 vote, with Frykberg, Lindberg, Skrzeczkoski, Smith, Ferguson, and Kurtz voting no; and Pizzurro, Rankl, Malpass, Patrick, Johnson voting yes.

Discussion took place on how contingency facilities would work with the plan.

It was stated that if we open it up to more counties, there will be a lot more trucks coming in.

Motion by Frykberg, to adjourn at 9:42 p.m., with the next meeting to be held on June 21, 1999. Chairman Johnson indicated we would begin on Table 1-B-3 at that time.

Motion supported by Tad Malpass. Motion carried.

ff stated the committee could change any portion of the plan any way / wanted to, concerning the import/export. He went over the / agency counties listed in the plan.

port into Charlevoix County of Type II waste was changed with Antrim / Emmet Counties being listed as primary, and all others listed as / ttingency.

was stated that the way this reads, is not the way the motion made by / Committee previously read.

ff was asked to eliminate everything but Emmet and Antrim for import / poses only to any landfill in the County

ved by Dan Skrzeczkoski, supported by Nancy Ferguson, to change the / guage of the third condition under import authorization to read "At such / ie as the 40 acre parcel (known as Cedar Ridge Landfill) and / ensed as of January 1, 1999, is filled or reaches the capacity as per its / proved engineering plan in effect as of that date, Type II waste will no / nger be accepted from the above listed counties, or any other counties, / d disposal in Charlevoix County. Motion carried.

rguson read motions from the previous meeting, clarifying what was / ing discussed.

aff will make the changes as suggested above by the Committee at this / eeting.

was noted the words "Type II" on page 3 in Goals and Objectives, / ould be changed to Type "III", in Strategy 1.5.

able 1-A-2 was gone over. Don Pizzurro would like the option to include / orthern Antrim County and southern Emmet County.

ollowing a discussion concerning the desire by Waste Management to be / ble to bring construction and debris into the Cedar Ridge Landfill in the / uture.

u stated she did not feel it was this Committee's job to have to / u dize other people's business concerns. Pizzurro stated that it seems

the Committee is trying to put the company out of business, with all the restrictions.

Ferguson asked if this is the place where we need to discuss this.

Motion by Don Pizzurro that the plan be amended to allow for inclusion of Emmet and Antrim County for Type III export to Charlevoix County, with the facility being buffered and screened. Supported by Randy Frykberg. Pizzurro stated it would not make economic sense to Waste Management or to builders to put a wall up on US 31 at Bay Shore and on the East Jordan/Ellsworth Road.

Kurtz stated that Eveline Township has provided for solid waste for all of these uses, and feels there are some ecological concerns with Type III wastes in this site. The traffic is also an issue if we have a Type III Facility at this location.

Kurtz stated that no one seems to want to accommodate the people who live in the area of the landfill. She stated their land is their investment, and it is a concern to the property owners.

Ferguson stated that Watch has discussed the issue, and they have some different ideas. One of the big ones was to limit the counties that could come to a Type III. She stated they also talked about if other counties should come in, there should be an enforced limit on the amounts coming in to Type A Transfer Stations. She went over Watch's recommendations and in return for Waste Management dropping the idea of a Type II.

Pizzurro stated that one county will not support a Type III facility, as it would not support a Type III. He stated there can be conditions on the number of counties allowed to use it, but it would not make economical sense to run the facility for one county.

Following the discussion, Dan Skrzeczkoski would like to limit to 12.6 acres, with surcharge on out of county waste, date for final closure, northern Antrim and southern Emmet County, tree berming, and that transfer station comply with siting criteria from new plan.

Question called, and on roll call vote, with Dan Skrzeczkoski, Nancy Ferguson, Prudence Kurtz, Paul Lindberg, Don Smith, and Ralph Richardson voting no, and Randy Frykberg, Don Pizzurro, Tom Rankl, Tad Malpass, Vic

IX COUNTY SOLID WASTE COMMITTEE

JUNE 7, 1999

MINUTES

at 7:00 p.m. Members present: Phil Johnson, Frykberg, Ralph Richardson, Prudence Kurtz, Paul Tad Malpass, Don Pizzurro, Don Smith, Dan Patrick.

ie Hass, Eric Strahl.

an, Terry Cooney, Debbie Johnston, Dave List, Nate Dave Barron.

ported by Frykberg, to approve the minutes as ed

ting Watch, discussed the future of the landfill, and could be gained by working with Waste Management, rather than working on legal terms, so have agreed to their concerns with Waste Management's proposal.

with the future of the landfill, they agree they are t to work with Waste Management to see if they can ent.

e Vermilya, on Onaway, praising the landfill, and pointing with Elk Run Landfill.

Sullivan stated some pieces of the Plan are missing, but they will be added in, based upon our discussion tonight. He began an overview of the material presented, including the data base, and current facilities, etc. He mentioned that Top Rank # 2 should be pulled from the existing facility and be put in the plan later on, as part of our Selected System. He listed the sites and went over where they are located. Page II-19 talks about collection services, and staff stated that if there are others, they should be added at this time.

A member stated that Waters is a facility that should be listed in the chart entitled "Solid Waste Collection Services" for all three haulers.

There should be a notation on Walloon Refuse as to where the waste is taken. Sullivan asked if Charlevoix County waste is being taken by Waste Management or Top Rank to the Emmet County Transfer Station. It was stated they both do.

Page II-20, the recycling facilities, Cedar Ridge is still accepting drop offs of recyclable materials.

Under the Recycling Collection Services Table, all of these listed end up at the Emmet County Transfer Station.

Yard waste is collected in the three cities, and Beaver Island does not collect it, but they do accept it at the transfer station.

Sullivan asked if the 5-yr. Lifespan for Cedar Ridge is still reasonable. It was agreed it is. He briefly went over the portions of the plan, and discussions occurred briefly on portions of it. Population changes were discussed, and the effects it has on solid waste.

Page II-24 starts the solid waste alternatives, developed primarily by RRSI. Staff made some changes to fit the material to our County. The section on import/export was discussed, and a question was asked if Cedar Ridge was allowed to expand, these counties could export waste to us. It was understood by some members that this was not the way it had been discussed. The concern was that if the expansion took place, all of the listed counties could dispose waste at Cedar Ridge.

CHARLEVOIX COUNTY SOLID WASTE PLANNING COMMITTEE
MARCH 20, 2000
MINUTES

A) CALL TO ORDER.

Meeting called to order at 7:31 p.m. by Larry Sullivan, Planning Director.

Members present: Dan Skrzeczkoski, Don Smith, Vic Patrick, Don Pizzurro, Nancy Ferguson, John Laney, Eric Strahl, Ralph Richardson, Tom Rankl, Jamie Hass.

Members absent: Phil Johnson, Paul Lindberg, Prudence Kurtz, and Randy Frykberg, (all excused).

Others present: Tom Wieland, Larry Levengood, Dan Duggan, Stephnie Glysson, Joe Tymoc, Leonard Zakrewski, Judy Jenkins, Nancy Dunham, and Larry Sullivan.

B) INTRODUCTION OF THE NEW MEMBER (JOHN LANEY).

C) ELECTION OF OFFICERS.

Nancy Ferguson took over the chair, in the absence of Chairman Johnson.

Moved by Dan Skrzeczkoski, supported by Ralph Richardson, to retain Phil Johnson as Chairman and Nancy Ferguson as Vice Chair. Motion carried.

D) APPROVAL OF MINUTES:

Motion by Dan Skrzeczkoski, seconded by Don Smith, to approve the minutes of the previous meeting as presented. Motion carried.

E. PUBLIC COMMENTS UNRELATED TO AGENDA ITEMS.

None.

F) CORRESPONDENCE:

Letter from Wayne County indicating that if we want to continue to send waste to Wayne County, we would have to let their waste come to our county. They asked for a response, and staff will respond according to what decisions are made on the solid waste plan.

Sullivan stated it is quite a distance to Wayne County but we could discuss this as we get further into review of the plan, specifically the section on Imports and Exports.

Sullivan stated he was contacted by the Boyne Valley Township Clerk, regarding comments they have and since they had a meeting conflict and were unable to attend the Public Hearing they would like to make their comments at tonight's meeting.

Staff mailed out a summary of the verbal comments received at the Public Hearing as well as written comments received prior to today to all committee members. This material was not a word for word transcript, but the substance of the comments regarding the draft Solid Waste Plan.

Steve Essling from Waste Management, in addition to making verbal comments at the meeting also faxed written comments to the Planning Department which were provided to the committee.

The second individual commenting at the Public Hearing was Wayne Vermilya, from Presque Isle County. He showed a video regarding geologic activity that occurred in the vicinity of the Allis Park Landfill recently. He also showed a map indicating where the landfill is, as well as conditions within a couple miles of the facility. Mr. Vermilya's major concern was that our draft plan does not require intercounty agreements, and that it is in conflict with the existing intercounty agreement between Charlevoix and Presque Isle County's. He raised concerns regarding the language in the plan to provide local units of government with the authority to adopt ordinances that may be unenforceable under Part 115 of the Natural Resources and Environmental Protection Act. He also believes the plan attempts to improperly restrict the siting of solid waste disposal facilities in Charlevoix County.

Mr. Essling questions the calculations in terms of pounds of waste generated per person per day. He stated the calculations are lower than the Environmental Protection Agency is using. Staff stated our calculations were broken down by residential, commercial, industrial and special wastes, rather than being combined into one lump sum and then being divided by the population of the county as is done in many areas. Essling also stated Waste Management disagrees with allowing a hauler to include two transfer stations in the plan that are contiguously located and owned by the same person. He felt this violated the DEQ operational memo regarding what is a Type A versus a Type B transfer station. He stated Waste Management's decisions regarding attempted landfill expansion requests have been based upon language in the current plan which states the Cedar Ridge Landfill may be used to handle the solid waste needs of the county for a 5 to 20 year time period. Sullivan noted the plan does contain language to that effect but also specifies the landfill will be limited to the existing 40 acre site. The length of life for the facility depends on the amount of waste that goes into the landfill, a management decision of the company that operates the landfill.

Regarding the material handed out at this meeting. A part of the Waste Management packet is a copy of a letter sent to Sullivan on September 2, 1999, which was from the Waste Industry Association of Michigan. He also received essentially the same letter, with a different date today from the Waste Industry Association of Michigan. Waste Management attached an operational memo from the MDEQ concerning Type A versus Type B Transfer Stations.

Discussion took place on the information within the letters from the Waste Industry Association. Sullivan stated the letter is not based upon a review of our plan but basically telling us we have to conform with the Association's interpretation of the law. He stated it is obvious this letter was not based upon a review of our plan but only a statement of the Waste Industry's position on a number of different issues.

G) NEW BUSINESS:

Ferguson asked for comments.

One member stated he felt we need to address the items addressed in the DEQ letter, although a lot of it is grammar or typo's.

Staff stated there were some new letters with comments received today. One was from Southdown, asking that we change all of the references to Medusa Cement Company to Southdown. Their other concern is in regards to their Type III Landfill and if it would be subject to the siting criteria contained in the draft solid waste plan. Sullivan stated we might want to discuss that further as we get into the review.

The other is a letter from Republic Waste Services, indicating they would like to see additional counties listed as primary importers into Charlevoix County and requesting all counties under export authorization on a contingency basis be changed to primary, to allow export to anywhere in the state. They are requesting specifically that the facility in Bay County be added to solid waste disposal areas located on pages 53 and 54.

A question was asked about some changes that had been previously mentioned. Sullivan stated he has them highlighted in the plan, and it would be best to deal with them when we get to that point.

The DEQ's comments on page three, was just sentence structure. Page 7, the last line at bottom of page has a minor language change needed. An issue was brought up today by a member of the audience that has some problem with the wording in the plan, because that person wanted to know if "county owned" in the plan means just owned or owned and operated. Sullivan felt it was not necessary to spell this all out, but to leave some flexibility. Staff felt there is a consensus that the committee feels "county owned" is sufficient.

Page 8, the first 2 paragraphs should be eliminated, and was part of the working document, and should have been deleted previously.

Dan had questions on Strategy 3.4 and 5, concerning the word encourage, which he felt should be required. Ralph said you could not change it in Strategy 3.5, because it is up to the DEQ to decide that. Sullivan stated he did not think the DEQ would have a problem with using required in these strategies.

Page 11, comments regarding solid waste generation data, and that it is, as he explained before, because the numbers were not divided out.

Page 15, following the second chart, there should be an asterisk after sand slag and other debris and Southdown kiln dust, to tie in with the asterisk on special wastes.

Page 16, reference the special wastes and use the same language as is on page 15.

Change all Medusa references to Southdown. Also next item below is an asterisk, staff suggested adding "upon the existing 40 acre site reaching capacity." Sullivan stated the county has no control over how the landfill operates as to how much it brings in. This is an attempt to clarify things for everyone.

The question was raised as to why no waste generation information was included for the Boyne Falls and Beaver Island School Districts. Sullivan stated the consultants (RRSI) actually conducted the waste generation survey and either the two schools were not surveyed due to their size or else they did not respond to the surveys that were sent out..

A question was asked by someone if we need to add in on page 16, the type III landfill allowed in the plan for Beaver Island. Sullivan said that would not be included as it is

not an existing landfill, but we will be doing work on page 54 to address that. The way the State wrote the guidelines, some facilities that are coming on line we included while others we are not sure of we did not include specific references to. On pages 17 through 20 we will make a change on the charts, taking x off special wastes, which basically is the recyclables, and the brush that is periodically burned on the Island. Sullivan stated he would like to remove all of the detailed facility descriptions as they take up a lot of room, but are required by the DEQ. Some material still needs to be added to these descriptions, and no maps have been included. Staff would rather not include the maps, and it was agreed he would remove that wording. Richardson stated he could understand the information for those facilities in our County, but the State already has the information on the facilities in the other counties.

A member noted that this is what we are dealing with on page 26, 27, 30, 31, and 32. Sullivan stated that is correct, and on a related note which will show up later in our work, but wherever we talk about transfer stations or facility descriptions for transfer stations, the State wants to know where the waste will be disposed of. Sullivan stated he did not feel it was necessary to indicate which facility it will be going to, as that changes, but rather state it will be sent to licensed facilities.

On page 32, we should eliminate the Rudyard table, because it is not licensed, and may never come to pass. Ralph asked if we have to put the asterisk for special waste on each page, or a special waste definition somewhere else. Sullivan stated we only have to put it on pages that have an x on the line to left of the category. We also received a phone call from a person employed with the Rudyard facility, and we need to check that information. He said he felt it is safe to eliminate the Rudyard facility.

Page 37, the comments that all alternatives should be listed in this section, not only the selected alternatives. Staff will go through and fill these in. Page 39, a reference to Appendix B should read Appendix A.

Page 43 the import authorization, staff feels it would be worthwhile to change Leelanau County from contingency to primary and to leave the Manistee, Montmorency and Oscoda as contingency, for purposes of being able to export waste from their county to a Type II Landfill in Charlevoix County.

Sullivan stated they do want reciprocity back and forth, and it would be a good move on the part of the county to allow the free flow back and forth in case that facility and the facility in Charlevoix County are owned by separate entities, they would have some competitive advantage in choosing which to use.

We also received a comment from Republic Waste that they would like to see additional counties being listed as being allowed to accept waste generated in Charlevoix County (i.e. more counties as importers). This will be good to keep in mind as we get on later in the plan.

Sullivan stated that the other counties' plans have not been finished, but we will be sending letters out to those counties, that we have referenced, as we complete our plan.

A representative of Republic Waste owner of the Elk Run Landfill in Presque Isle County stated the letter does not request a change for importation into Charlevoix County, but rather for export, from Charlevoix County to other counties around the state. Republic is having discussions with Bay County to make sure Charlevoix County is included in their plan.

The committee felt it would be useful to change Leelanau County from a contingency to primary county on the export list on page 43, dealing with landfills.

A concern was raised with this that if we end up getting a landfill, would we be a primary for 100 % of their waste? Richardson stated that it may be such if Charlevoix has its landfill, it might need the volume.

It was requested that we put an asterisk by this one and come back to it. Sullivan stated we could. Sullivan stated he could make some decisions, but he would put asterisks by those that need committee action.

On page 45, concerning two conditions which tries to address the issue the DEQ is trying to address in its operational memo regarding Type A versus Type B. He can change this by adding another letter. The state also made comments on defining contingency disposal. It is one of their terms, so Sullivan will include their terms in the Plan. On page 47, staff will define other conditions. On 48, change the two O's and add another letter to the table. The Committee thought that was already pretty clear. Sullivan stated he would check with DEQ and take care of what is needed.

Sullivan stated it might be appropriate for Leonard Zakrewski to give his comments at this time. Leonard questioned the committee at whether or not the County has a site picked out. Sullivan stated no, but we would have to look at siting criteria, narrow it down to whatever number would be in the county and go from there. The decision would be made by the County Board of Commissioners, based upon sites that meet the siting criteria. Staff explained the process within the plan would have to be followed and the criteria would have to be met.

The language currently contained within the draft plan does not mean the County is going to site a landfill, but could do so if the need arose. If there were a county owned facility, the plan would state which counties the waste could come from. Leonard stated another concern of Boyne Valley Township is the funding of a county landfill. Sullivan responded the committee would deal with that issue shortly.

Page 50, is where the comment received from Republic Waste would fit. It deals with the export, and the questions would be dealt with on Page 2a and 2b regarding the future export of waste. Republic stated they are requesting that all counties be listed as primary on pages 50 and 51 and the same on 52 and 53. One member did not like that option at all, because anyone could bring waste here. Sullivan stated that it does not necessarily mean that it has to go both ways. This only lists facilities for export from Charlevoix County.

It was agreed that all of the counties could be changed to primary to accept waste for export from Charlevoix County. It was stated that we would strike contingency as all are going to be listed as primary. Sullivan stated he could change the c to p and have the plan state that counties authorized as primary above may be use for disposal of solid waste provided it is allowed for in their plan.

Moved by Dan Skrzeczkoski, seconded by Tom Rankl, to change the designations to primary on pages 50 and 51. Motion carried 9 yes and 1 no.

Moved by Dan Skrzeczkoski, seconded by Ralph Richardson, to change designations to primary on pages 52 and 53. Motion carried with 8 yes votes and 2 no votes.

The committee concensus regarding Page 54, is to eliminate Rudyard, change Medusa to Southdown; eliminate EJ and BI and Charlevoix County Type II. Under the Type II, eliminate the County Type II facilities, and under Type A Transfer Stations, .

Bay County's White Feather Landfill has been asked to be listed as another option for waste disposal of Charlevoix's waste. The question was asked how difficult would it be to list all landfills in the State. Sullivan stated he could do this.

It was asked if we could add White Feather Landfill to the list and put in there, as well as any other facility in the State that we can get an agreement with.

Sullivan stated we could put a page in for White Feather, and check with the DEQ to see what else we should do. He stated he would ask for a list of all facilities within the State from the DEQ, and ask how to handle those, as he felt he did not want to have to have a page for each facility in the plan.

Sullivan was asked to do some work on this Section and report back at the next meeting.

Pages 55 through 75 are basically identically to that earlier section. On page 62, that should have actually read Charlevoix County, instead of Leelanau. We will make the same changes to this part, as we made in the first part.

Page 77, Sullivan will pull out language from the current plan, which talks about volume reduction, and insert that in at this location. From a cost standpoint, staff is not aware of bale fills that are occurring anywhere in the country.

Page 88, staff will make language changes to address that concern.

The State has a concern as to what WATCH is, the committee concluded that it should be spelled out each time it occurs.

Page 92, Jamie Hass requested that paragraph 6, starting with MIRIS maps, should be included in an appropriate spot, so he does not waste people's time, and in parenthesis after the wording, source of where the quote came from.

The question was asked, "Do we want to include that into paragraph 6 and also in the siting criteria as a definition?"

Jamie moved to add to paragraph 6, the DEQ's statement referencing MIRIS Maps, supported by Richardson.

A question was asked once the Plan is approved, is it the map currently in place, or if the State decides to update the map, will that one be used.

Hass stated the map that is approved is the one that will be used. Richardson stated that what they say in the second paragraph is that the approved map is the one used. Sullivan stated they could change it on a daily basis, or MIRIS may no longer exist.

Richardson stated he does not know the maps are incorrect. Sullivan stated the maps would be submitted with the plan. There was discussion as to whether you would submit an updated one if it were published. Sullivan went over the process of how the maps were produced.

Sullivan stated he would not want to reference a moving target. It would be like building a house to existing building codes, but needing to change the construction any and everytime the construction code were to change.

Sullivan will request updated map layers and bring them back to the next meeting.

Motion carried, to include the DEQ verbage on page 6, from the DEQ comments, with 9 yes votes and 1 no vote.

Paragraph 5, Sullivan saw no problem inserting that wording. He agreed with eliminating proximity to service area, as he does not think we will have multiple landfills being proposed. It was a consensus that this wording could be eliminating.

Sullivan asked the committee to mull over before the next meeting, the issue of siting distances for Type III Landfills, in light of the fact there may be a number of them needed. He stated the Committee might want to consider a reduction in the standards.

Sullivan was asked to develop language for siting criteria for monofills prior to the next meeting. The next meeting will be held at 7:00 P.M., on April 17, 2000.

Boyne Valley Township representatives were present and had concerns on the Type II Landfills. Leonald Zakrewski asked what the difference was between Type II and Type III Landfills. Sullivan explained that with waste from a specific industry, there is generally only one type of waste going into the Type III landfill and as a result, in most cases would not require as great a setback from water bodies, etc., and it is best to have Type III landfills located close to the source of the waste that is to be disposed in the landfill. How will the Type II Facility be financed that is provided for in the Plan? That decision would be made by the County Board of Commissioners. They will decide how to pay for it, and in all probability revenue bonds would be sold, and tipping fees would pay for them, as the facility operates.

It was stated that we could not put in the plan that it will be paid by tipping fees, as that would be up to the Board of Commissioners to decide.

Sullivan stated he understood Boyne Valley Township's concern is they would not want the county landfill to be funded by a millage, because they already have a millage to fund their transfer station and recycling operation. Another question from Boyne Valley was do we have a Type II Landfill located in the county, owned by Waste Management. Sullivan replied that we do, but they presently only accept waste from their own trucks and East Jordan Iron Works. They have approximately six months of life left as best we are able to determine.

H) ADJOURNMENT:

The meeting was adjourned at 9:35 p.m., by Nancy Ferguson.

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of Boyer Valley, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
Boyer Valley, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: Nancy Dunham

SECONDED BY: Susan Conklin

YEAS: - 4 -

NAYS: - 0 -

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF Boyer Valley.

ON: June 26, 2000

Date

Nancy Dunham
Township Clerk

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of Chandler, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
Chandler, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: Myron Matz

SECONDED BY: Phyllis Pen Fold

YEAS: 5

NAYS: 0

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF Chandler.

ON: June 13, 2000

Date

Mary Peters
Township Clerk

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of Charlevoix, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
Charlevoix, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: Nancy Rajewski

SECONDED BY: Theda Williams

YEAS: Stroud, Rajewski, Martin, and Williams

NAYS: None

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF Charlevoix.

ON: June 12, 2000

Date

Carol Martin
Township Clerk

Please return 1 signed copy to the Planning Dept.



City of East Jordan

201 Main Street • P.O. Box 499
East Jordan, Michigan 49727-0499

City Hall

Tel: (616) 536-3381
Fax: (616) 536-3383

Resolution # 115/2000

**Offered for Adoption by Gee
Supported by Hoffman**

Resolution Approving the Charlevoix County Solid Waste Management Plan

WHEREAS, the City of East Jordan has had numerous opportunities to provide input into the development of the County Solid Waste Management Plan, and

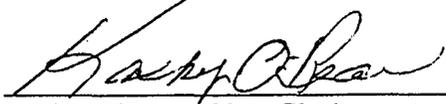
WHEREAS, the City Commission has reviewed the plan, and believes the plan will accommodate the solid waste generated in the County well in to the future.

THEREFORE BE IT RESOLVED the City of East Jordan hereby approves the Charlevoix County Solid Waste Management Plan.

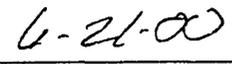
Roll Call Vote:

Ayes: Gee, Cihak, Hoffman, Williams, Hammond & Mayor Klooster
Nays: None

I hereby certify that the forgoing is a true and complete copy of a resolution adopted by the East Jordan City Commission at a Regular Meeting, held Tuesday, June 20, 2000.



Kathy O'Rear, City Clerk



Date

EVELINE TOWNSHIP

RESOLUTION 2000-6-13

**RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN**

WHEREAS, THE TOWNSHIP OF EVELINE, OF CHARLEVOIX COUNTY, HAS HAD
NUMEROUS OPPORTUNITIES TO PROVIDE INPUT INTO THE DEVELOPMENT OF THE
COUNTY SOLID WASTE MANAGEMENT PLAN; and
WHEREAS, WE HAVE REVIEWED THE PLAN; AND
WHEREAS, WE BELIEVE THE PLAN WILL ACCOMMODATE THE SOLID WASTE
GENERATED IN THE COUNTY WELL INTO THE FUTURE;
NOW, THEREFORE, BE IT RESOLVED, THAT THE TOWNSHIP OF EVELINE, CHARLEVOIX
COUNTY, HEREBY GOES ON RECORD AS APPROVING THE CHARLEVOIX COUNTY SOLID
WASTE MANAGEMENT PLAN.

MOTION MADE BY HAYDEN

SECOND BY BEISHLAG

YEAS: BEISHLAG, HAYDEN, SHERMAN, SKRZECZKOSKI, WILLSON
NAYS: NONE

I HEREBY ATTEST THAT THIS IS AN OFFICIAL RECORD OF THE ACTIONS OF
THE TOWNSHIP OF EVELINE

ON: JUNE 13, 2000



DONALD S. HAYDEN
TOWNSHIP CLERK

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of HAYES, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
HAYES, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: ROBBIN KRAFT

SECONDED BY: TIMOTHY BOYKO

YEAS: DOUGLAS KUEBLER, FREDERICK PARSONS, TIMOTHY BOYKO, ROBBIN KRAFT,
ETHEL KNEPP (YEA)

NAYS: NONE

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF HAYES.

ON: JUNE 12, 2000

Date

Ethel R Knepp
Township Clerk

Please return 1 signed copy to the Planning Dept.

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of MARION, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
MARION, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: Joanne Jones

SECONDED BY: Wilson Boss

YEAS: Joanne Jones, Wilson Boss, Jerry Dohm

NAYS: Mitch Cunningham, Sonja Martin

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF MARION.

ON: JUNE 20, 2000
Date

Wilson Boss
Township Clerk

Please return 1 signed copy to the Planning Dept.

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of Melrose, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
Melrose, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: Al Deneau, Supervisor

SECONDED BY: Al Reeves, Trustee

YEAS: 5

NAYS: _____

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF Melrose.

ON: June 13th, 2000
Date

Annette Longcore
Township Clerk

Please return 1 signed copy to the Planning Dept.

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of PEAINE, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
PEAINE, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: FRANK BLATT

SECONDED BY: PAUL NELSON

YEAS: NELSON, M^CCAFFERTY, WORKS, BLATT

NAYS: NONE

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF PEAINE.

ON: JUNE 14, 2000
Date

Colleen In Martin
Township Clerk - DEPUTY

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of St. James, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
St. James, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: James Wojan

SECONDED BY: Gary Damstra

YEAS: 5

NAYS: -0-

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF St. James.

ON: 6/7/00
Date

Jean Palmer
Township Clerk

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of WILSON, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
WILSON, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: RON REINHARDT

SECONDED BY: CAROL CLAVIER

4 YEAS: TODD SORENSON, CAROL CLAVIER, KERRI REINHARDT, RON REINHARDT

0 NAYS: _____

1 ABSTENSION: JON JASINSKI

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF WILSON.

ON: JUNE 6, 2000
Date

Carol Clavier
Township Clerk

Charlevoix County Planning Department

COUNTY BUILDING
301 STATE STREET
CHARLEVOIX, MICHIGAN 49720

TELEPHONE 231 547-7234
FAX 231 547-7217

April 20, 2000

Diane Rekowski
Northeast Michigan Council of Govts.
PO Box 457
Gaylord, MI 49735

Charlevoix County is nearing completion of its Solid Waste Management Plan. As a part of this plan, we are requesting letters from the authors of the respective county solid waste plan as to what quantities of waste can be shipped from Charlevoix County on an annual basis over the next ten years, as well as any conditions that might exist regarding this possible movement of solid waste.

At the current time, Charlevoix County contains a licensed Type II landfill which is nearing capacity. In the past, this facility has closed its doors to competing hauling companies. Recently it has decided to reopen its doors to its competitors. According to the MDEQ staff, we have no control over the decisions of this nature by the owner of a landfill. The recent mergers in the waste industry and concerns over a reduction in competition in the waste industry has raised the issue of adequate disposal as well as the ability to send waste to numerous facilities owned by different companies, both today and in the future.

For these reasons, our Draft Solid Waste Management Plan provides for import of and export of solid waste with a number of counties of which Leelanau County is one. Our plan also provides for a county owned landfill to be constructed within Charlevoix County. We believe that solid waste is a public health issue as well as having economic ramifications.

Charlevoix County is expected to generate approximately 378,890 tons of traditional household, commercial and industrial wastes over the next 10 year time period. Additional special wastes are generated as well, with all of it either going into or capable of being disposed of in Type III monofills located within Charlevoix County. While we project the above mentioned quantities of waste to be generated, we also expect a portion of this waste to be recycled through our expanded recycling program which is currently under development.

We are desirous of a letter indicating to what extent the Montmorency County Solid Waste Management Plan will allow the shipment of waste from Charlevoix County in total, or on an annual basis, for the next 10 years, as well as any conditions that would

apply should it be necessary for waste to be shipped from Charlevoix to Montmorency County.

Should you have any questions, feel free to contact me at the number listed above or by e-mail at LSullivan@nwm.cog.mi.us.

Sincerely,

Larry Sullivan
Planning Director

cc: Sandy Cunningham

Charlevoix County Planning Department

COUNTY BUILDING
CHARLEVOIX, MICHIGAN 49720

TELEPHONE 616 547-7234

April 20, 2000

Sandy Cunningham
Montmorency-Oscoda Landfill Authority
Montmorency County Courthouse Annex
PO Box 789
Atlanta, MI 49709

Dear Ms. Cunningham;

We are in the process of completing the Charlevoix County Solid Waste Management Plan. As a part of the plan, we would like to demonstrate that disposal capacity exists and is available for use by Charlevoix County for the next 10 years. The Montmorency-Oscoda Landfill in Montmorency County is one of the landfills we would like to include as being able to provide for all or a portion of our disposal needs for that period of time.

Based upon current calculations, we estimate the total amount of waste to be generated in Charlevoix County during the ten year time period to be 2,038,890 tons. Of that quantity, 1,560,000 tons would be special wastes which are comprised of kiln dust from Southdown Cement Company and foundry sands from the East Jordan Iron Works. The 750,000 tons of kiln dust will be disposed of at the Southdown Type III facility. The East Jordan Iron Works will generate approximately 810,000 tons of foundry sands. The traditional household, commercial and industrial wastes generated in the county over the next 10 years would equate to 378,890 tons.

From the Montmorency-Oscoda Landfill, we are interested in knowing how much waste, if any, your firm would be willing to commit to accepting, both annually and in total between now and the end of the year 2010. We would appreciate a response in writing for inclusion in our draft Solid Waste Management Plan.

We will also be requesting a similar letter from Montmorency County to ensure we would be in compliance with their Solid Waste Management Plan.

We are looking forward to your response.

Sincerely yours,

Larry Sullivan
Planning Director

cc: Diane Rekowski

ROGER D. FRYE, CHAIRMAN
DENNIS KAUFFMAN, VICE-CHAIRMAN
RAYMOND WEGMEYER, SEC./TREAS.
RICHARD E. HERMANSON
MICHAEL HUNT
TOM MULLANEY
ANDY CUNNINGHAM, EXEC. SECRETARY



P. O. Box 789, Atlanta, MI 49709

(517) 785-2066 Phone
(517) 785-4183 Fax

June 29, 2000

MEMO TO: All Haulers

County Boards of Commissioners (please forward to your designated Solid Waste Planning Official):

Emmet	Cheboygan	Presque Isle	Alcona County
Iosco	Ogemaw	Roscommon	Crawford
Otsego	Kalkaska	Grand Traverse	Benzie
Leelenau	Antrim	Charlevoix	Schoolcraft

FROM: Roger D. Frye, Chairman; Montmorency-Oscoda-Alpena Solid Waste Management Authority Board

Please be advised that the Landfill Authority Board, at their meeting held on 6/16/00, directed that all refuse Haulers and County's with export authorization in our approved Solid Waste Management Plan be notified that, effective October 1st, 2000, all County's, with the exception of the Landfill Authority Board, Member-County's, be charged an additional \$2.00 per cubic yard for refuse delivered.

Therefore, effective October 1st, 2000, the gate rate for refuse delivered from all County's, with the exception of Montmorency, Alpena and Oscoda, shall be \$12.00 per cubic yard for refuse delivered to our facility for disposal.

In addition, the Board directed that you be advised that the Montmorency-Oscoda-Alpena Solid Waste Management Authority is not in a position to guarantee disposal capacity. We will continue to accept refuse from your County, however, we reserve the right to limit the quantity accepted.

We thank you for your patronage and look forward to working with you in the future, as capacity allows.

Larry Sullivan

Charlevoix County Planning Department

COUNTY BUILDING

CHARLEVOIX, MICHIGAN 49720

TELEPHONE 616 547-7234

April 20, 2000

Patrick Merrill
Crawford County
200 Michigan Avenue
Grayling, MI 49738

Dear Mr. Merrill;

Charlevoix County is nearing completion of it's Solid Waste Management Plan. As a part of this plan, we are requesting letters from counties as to what quantities of waste they are willing to accept from Charlevoix County on an annual basis over the next ten years, as well as any conditions that might exist in your Solid Waste Management Plan regarding this possible movement of solid waste.

At the current time, Charlevoix County contains a licensed Type II landfill which is nearing capacity. In the past, this facility has closed it doors to competing hauling companies. Recently it has decided to reopened their doors to their competitors. According to the MDEQ staff, we have no control over the decisions of this nature by the owner of a landfill. The recent mergers in the waste industry and concerns over a reduction in competition in the waste industry has raised the issue of adequate disposal as well as the ability to send waste to numerous facilities owned by different companies, both today and in the future.

For these reasons, our Draft Solid Waste Management Plan provides for import of and export of solid waste with a number of counties of which Crawford County is one. Our plan also provides for a county owned landfill to be constructed within Charlevoix County. We believe that solid waste is a public health issue as well as having economic ramifications.

Charlevoix County is expected to generate approximately 378,890 tons of traditional household, commercial and industrial wastes over the next 10 year time period. Additional special wastes are generated as well, with all of it either going into or capable of being disposed of in Type III monofills located within Charlevoix County. While we project the above mentioned quantities of waste to be generated, we also expect a portion of this waste to be recycled through our expanded recycling program which is currently under development.

We are desirous of a letter indicating to what extent your county would be willing to accept waste from Charlevoix County in total or

on an annual basis for the next 10 years as well as any conditions that would need to be complied with should it be necessary for waste to be shipped from Charlevoix to Crawford County.

Should you have any questions, feel free to contact me at the number listed above or by e-mail at LSulliva@nwm.cog.mi.us.

Sincerely,

Larry Sullivan
Planning Director

cc: Debbie Johnston

Charlevoix County Planning Department

COUNTY BUILDING
CHARLEVOIX, MICHIGAN 49720

TELEPHONE 616 547-7234

April 20, 2000

Debbie Johnston
CES Landfill
Waste Management Inc.
11375 Sherman Road
Fredrick, MI 49733

Dear Mrs. Johnston;

We are in the process of completing the Charlevoix County Solid Waste Management Plan. As a part of the plan, we would like to demonstrate that disposal capacity exists and is available for use by Charlevoix County for the next 10 years. The CES Landfill in Crawford County is one of the landfills we would like to include as being able to provide all or a portion of our disposal needs for that period of time.

Based upon current calculations, we estimate the total amount of waste to be generated in Charlevoix County during the ten year time period to be 2,038,890 tons. Of that quantity, 1,560,000 tons would be special wastes which are comprised of kiln dust from Southdown Cement Company and foundry sands from the East Jordan Iron Works. The 750,000 tons of kiln dust will be disposed of at the Southdown Type III facility. The East Jordan Iron Works will generate approximately 810,000 tons of foundry sands. The traditional household, commercial and industrial wastes generated in the county over the next 10 years would equate to 378,890 tons.

From the CES Landfill, we are interested in knowing how much waste, if any, your firm would be willing to commit to accepting, both annually and in total between now and the end of the year 2010. We would appreciate a response in writing for inclusion in our draft Solid Waste Management Plan.

We will also be requesting a similar letter from Crawford County.

We are looking forward to your response.

Sincerely yours,



Larry Sullivan
Planning Director

cc: Pat Merrill



WASTE MANAGEMENT

11375 Sherman Rd.
Frederic, MI 49733
(517) 732-3553
(517) 732-1398 Fax

June 19, 2000

Mr. Larry Sullivan, Planning Director
Charlevoix County Planning Department
301 State Street
Charlevoix, MI 49720

**RE: Disposal Capacity
City Environmental Services, Inc of Waters**

Dear Mr. Sullivan:

The purpose of this letter is to respond to your request dated April 20, 2000 regarding the acceptance of Charlevoix County waste at City Environmental Services, Inc. of Waters (Waters Landfill) in Crawford County.

Waters Landfill has sufficient capacity to accept waste from Charlevoix County. The facility is capable of accepting the annual and ten year forecasted tonnage generation represented in you letter.

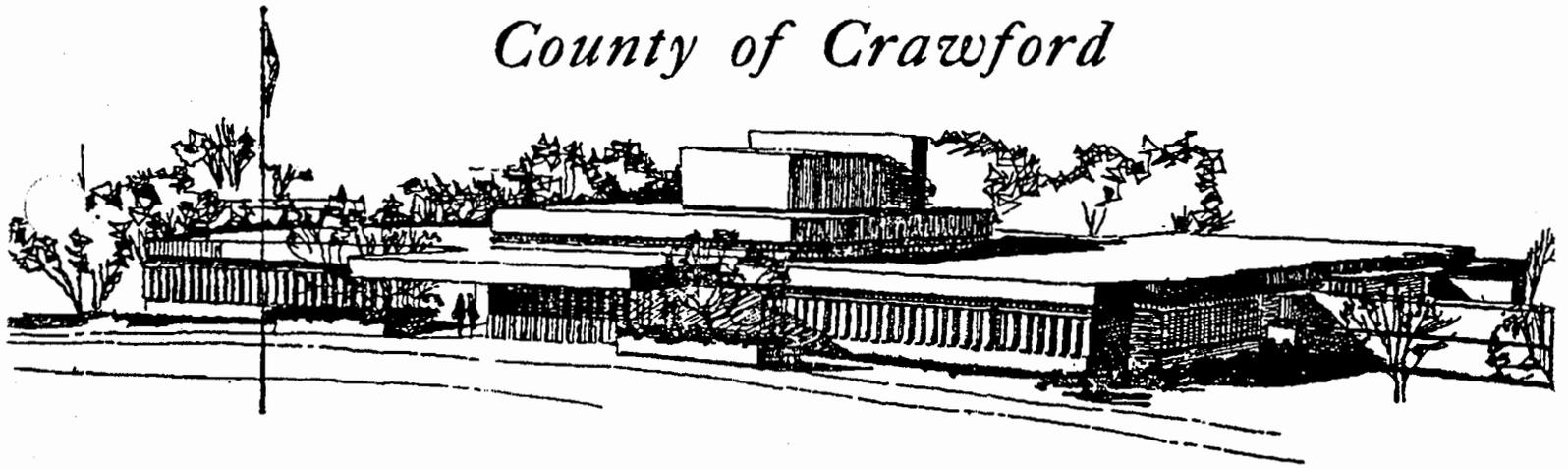
Feel free to call me if you require any other information for inclusion of Waters Landfill in the Charlevoix County Solid Waste Management Plan.

Sincerely,

Debora L. Johnston
Divisional Engineer

c: Terry Cooney, WM
Chad Crawford, Waters Landfill
Pat Merrill, Crawford County

County of Crawford



July 12, 2000

Larry Sullivan, Charlevoix County Planning Director
301 State Street
Charlevoix, MI. 49720

Dear Mr. Sullivan,

This correspondence is in regard to Charlevoix County's Solid Waste Management Plan Update. Under the Stipulated Order of Settlement (Case No. 95-6409 CK (D)), the Type II Landfill which operates in Crawford County is authorized to accept waste from Charlevoix County on a primary or contingency basis. There is no specific limit to the amount of waste that may be disposed of by Charlevoix County, but the total amount from counties other than Crawford and Otsego may not exceed 951,008 cubic yards.

Please feel free to call me if you have any questions, or require any additional information.

Sincerely,

Patrick Merrill

Patrick Merrill
Crawford County Environmental Monitor

Charlevoix County Planning Department

COUNTY BUILDING
301 STATE STREET
CHARLEVOIX, MICHIGAN 49720

TELEPHONE 231 547-7234

FAX 231 547-7217

April 20, 2000

Stan Idziak
Solid Waste Management Unit
MI Department of Environmental Quality
PO Box 30473
Lansing MI 48909-7973

Charlevoix County is nearing completion of its Solid Waste Management Plan. As a part of this plan, we are requesting letters from the authors of the respective county solid waste plan as to what quantities of waste can be shipped from Charlevoix County on an annual basis over the next ten years, as well as any conditions that might exist regarding this movement of solid waste.

At the current time, Charlevoix County contains a licensed Type II landfill which is nearing capacity. In the past, this facility has closed its doors to competing hauling companies. Recently it has decided to reopen its doors to their competitors. According to the MDEQ staff, we have no control over the decisions of this nature by the owner of a landfill. The recent mergers in the waste industry and concerns over a reduction in competition in the waste industry has raised the issue of adequate disposal as well as the ability to send waste to numerous facilities owned by different companies, both today and in the future.

For these reasons, our Draft Solid Waste Management Plan provides for import of and export of solid waste with a number of counties of which Presque Isle County is one. Our plan also provides for a county owned landfill to be constructed within Charlevoix County. We believe that solid waste is a public health issue as well as having economic ramifications.

Charlevoix County is expected to generate approximately 378,890 tons of traditional household, commercial and industrial wastes over the next 10 year time period. Additional special wastes (foundry sands from the East Jordan Iron Works) are generated as well that will need to be disposed of in the quantity of 810,000 tons over the next ten years. While we project the above mentioned quantities of waste to be generated, we also expect a portion of this waste to be recycled through our expanded recycling program which is currently under development.

We are desirous of a letter indicating to what extent the Presque Isle County Solid Waste Management Plan will allow the shipment of waste from Charlevoix County in total or on an annual basis for the

next 10 years as well as any conditions that would apply should it be necessary for waste to be shipped from Charlevoix to Presque Isle County.

Should you have any questions, feel free to contact me at the number listed above or by e-mail at LSulliva@nwm.cog.mi.us.

Sincerely,

Larry Sullivan
Planning Director

cc: Stephanie Glysson

Charlevoix County Planning Department

COUNTY BUILDING
CHARLEVOIX, MICHIGAN 49720

TELEPHONE 616 547-7234

April 20, 2000

Stephanie Glysson
Elk Run Landfill
Republic Services of Michigan
PO Box 68
Wayne, MI 48184

Dear Ms. Glysson;

We are in the process of completing the Charlevoix County Solid Waste Management Plan. As a part of the plan, we would like to demonstrate that disposal capacity exists and is available for use by Charlevoix County for the next 10 years. The Elk Run Landfill in Presque Isle County is one of the landfills we would like to include as being able to provide all or a portion of our disposal needs for that period of time.

Based upon current calculations, we estimate the total amount of waste to be generated in Charlevoix County during the ten year time period to be 2,038,890 tons. Of that quantity, 1,560,000 tons would be special wastes which are comprised of kiln dust from Southdown Cement Company and foundry sands from the East Jordan Iron Works. The 750,000 tons of kiln dust will be disposed of at the Southdown Type III facility. The East Jordan Iron Works will generate approximately 810,000 tons of foundry sands. The traditional household, commercial and industrial wastes generated in the county over the next 10 years would equate to 378,890 tons.

From the Elk Run Landfill, we are interested in knowing how much waste, if any, your firm would be willing to commit to accepting, both annually and in total between now and the end of the year 2010. We would appreciate a response in writing for inclusion in our draft Solid Waste Management Plan.

We will also be requesting a similar letter from the Michigan Department of Environmental Quality who we understand is writing the Presque Isle County Solid Waste Management Plan.

We are looking forward to your response.

Sincerely yours,

Larry Sullivan
Planning Director

cc: Stan Idziak

Charlevoix County Planning Department

COUNTY BUILDING
CHARLEVOIX, MICHIGAN 49720

TELEPHONE 616 547-7234

April 20, 2000

Stephanie Glysson
Whitefeather Landfill
Republic Services of Michigan
PO Box 68
Wayne, MI 48184

Dear Ms. Glysson;

We are in the process of completing the Charlevoix County Solid Waste Management Plan. As a part of the plan, we would like to demonstrate that disposal capacity exists and is available for use by Charlevoix County for the next 10 years. The Whitefeather Landfill in Bay County is one of the landfills we would like to include as being able to provide all or a portion of our disposal needs for that period of time.

Based upon current calculations, we estimate the total amount of waste to be generated in Charlevoix County during the ten year time period to be 2,038,890 tons (or 6,116,670 compacted yards). Of that quantity, 1,560,000 tons (or 4,680,000 compacted yards) would be special wastes which are comprised of kiln dust from Southdown Cement Company (750,000 ton of kiln dust or 2,250,000 cubic yards) and foundry sands from the East Jordan Iron Works (810,000 tons or 2,430,000 cubic yards). The kiln dust would be disposed of at the Southdown Type III facility and the East Jordan Iron Works currently has agreements for the disposal of their sands and could if necessary construct a Type III Landfill.

From the Whitefeather Landfill, we are interested in knowing how much waste, if any, your firm would be willing to commit to accepting, both annually and in total between now and the end of the year 2010. We would appreciate a response in writing for inclusion in our draft Solid Waste Management Plan.

We will also be requesting a similar letter from Bay County to ensure we would be in compliance with their Solid Waste Management Plan.

We are looking forward to your response.

Sincerely yours,

Larry Sullivan
Planning Director

cc: Valerie Keib

Charlevoix County Planning Department

COUNTY BUILDING
301 STATE STREET
CHARLEVOIX, MICHIGAN 49720

TELEPHONE 231 547-7234

FAX 231 547-7217

April 20, 2000

Ms. Valerie Keib
Director
Bay County Environmental Affairs
515 Center Avenue
Bay City, MI 48708

Charlevoix County is nearing completion of its Solid Waste Management Plan. As a part of this plan, we are requesting letters from counties as to what quantities of waste they are willing to accept from Charlevoix County on an annual basis over the next ten years, as well as any conditions that might exist in your Solid Waste Management Plan regarding this possible movement of solid waste.

At the current time, Charlevoix County contains a licensed Type II landfill which is nearing capacity. In the past, this facility has closed its doors to competing hauling companies. Recently it has decided to reopen its doors to its competitors. According to the MDEQ staff, we have no control over the decisions of this nature by the owner of a landfill. The recent mergers in the waste industry and concerns over a reduction in competition in the waste industry has raised the issue of adequate disposal as well as the ability to send waste to numerous facilities owned by different companies, both today and in the future.

For these reasons, our Draft Solid Waste Management Plan provides for import of and export of solid waste with a number of counties of which Bay County is one. Our plan also provides for a county owned landfill to be constructed within Charlevoix County. We believe that solid waste is a public health issue as well as having economic ramifications.

Charlevoix County is expected to generate approximately 378,890 tons of traditional household, commercial and industrial wastes over the next 10 year time period. Additional special wastes are generated as well, with all of it either going into or capable of being disposed of in Type III monofills located within Charlevoix County. While we project the above mentioned quantities of waste to be generated, we also expect a portion of this waste to be recycled through our expanded recycling program which is currently under development.

We are desirous of a letter indicating to what extent your county would be willing to accept waste from Charlevoix County in total or

on an annual basis for the next 10 years as well as any conditions that would need to be complied with should it be necessary for waste to be shipped from Charlevoix to Bay County.

Should you have any questions, feel free to contact me at the number listed above or by e-mail at LSulliva@nwm.cog.mi.us.

Sincerely,

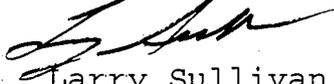
Larry Sullivan
Planning Director

cc: Stephanie Glysson

would be willing to accept waste from Charlevoix County in total or on an annual basis for the next 10 years as well as any conditions that would need to be complied with should it be necessary for waste to be shipped from Charlevoix to Leelanau County.

Should you have any questions, feel free to contact me at the number listed above or by e-mail at LSullivan@nwm.cog.mi.us.

Sincerely,



Larry Sullivan
Planning Director

cc: Dave Barrons

Frykberg happy with Plan.

Ferguson asked if Sullivan is still planning to post the enforcement numbers to call when problems arise in the recycling program. He stated he will do that.

Motion by Dan Skrzeczkoski, supported by Randy Frykberg, to approve the Solid Waste Plan, as presented. Motion carried.

Sullivan stated there are still some minor changes and additions to the plan, which will be provided to the Committee, but the content will not be changed.

Next Monday night, the Planning Commission will act on it, then the County Board will act on it, and it will be sent out to townships, cities, and the Village of Boyne Falls.

Johnson stated the Plan needs to be sent to the Board by Friday, for action on the next Wednesday. He also thanked the members, on behalf of the Board, for the efforts they put in to get the plan finished.

Motion by Skrzeczkoski to adjourn at 7:38 p.m. Motion supported by Smith. Motion carried.

Charlevoix County Solid Waste Planning Committee
May 15, 2000

Minutes

Meeting called to order at 7:10 p.m., by Chairman Johnson.

Members present: Richardson, Skrzeczkoski, Johnson, Patrick, Smith, Strahl, Frykberg, Ferguson, and Kurtz.

Members absent: Rankl (excused), Lindberg (excused), Pizzurro, Laney, and Hass.

Minutes needing correction with wording from Commercial to Agricultural, in the paragraph beginning "Discussion took place.....". Motion made to approve the minutes as corrected.

The members were invited to make comments, and to state if they have problems with the Plan as mailed to them.

Richardson fine with the Plan.

Dan has two pages he has concerns on. First on page 57 – second line should be changed to read: "management needs for the solid waste generated within Charlevoix County for the next ten years.", dropping the words "five years and, if possible". The next was on page 98, under Disposal Areas, 4th paragraph, second sentence – should read "Private enterprise for monofills located within the County, provided the monofill is owned and operated by the company generating the waste disposed of in the monofill."

Ferguson had a question on page 92, pertaining to zoning. She asked if this is a State law. Sullivan stated he had spoken with the DEQ, and they had stated if it is allowed by right, it would be acceptable. It was suggested the wording be changed to: "Zoning – Landfills shall be located in zoning districts in which they are permitted as a use by right, or in any area zoned to allow agricultural, commercial, or industrial uses."

Sullivan stated the only Type II Landfill will be owned by the County, and the only Type III to be operated by private owners will be monofill.

Johnson is happy with it.

Patrick is happy with it.

Smith is generally happy.

Strahl stated that on page 38, words are transposed, and Sullivan will correct them.

Motion carried.

Sullivan was directed to meet and discuss with DEQ staff the remaining issues raised in the comment letter dated January 27, 2000, make appropriate changes to the plan and bring the changes back to the Committee for discussion.

New Business

None.

Adjournment

Dan Skrzeczkoski moved, seconded by Ralph Richardson, to adjourn at 8:52 p.m.
Motion carried.

Approved as changed

SOLID WASTE MINUTES
APRIL 17, 2000

Call to Order

Meeting called to order at 7:30 p.m., by Chairman Johnson.

Members present: Don Pizzurro, Prudence Kurtz, Tom Rankl, Raul Lindberg, Dan Skrzeczkoski, Eric Strahl, John Laney, Don L. Smith, Nancy Ferguson, Phil Johnson, Vic Patrick, Ralph Richardson.

Members absent: Randy Frykberg (excused), Jamie Hass.

Others present: Larry Sullivan.

Public Comments Unrelated to Agenda Items.

None.

Approval of Minutes of March 20, 2000

Motion made by Dan Skrzeczkoski, seconded by Ralph Richardson, to approve the minutes as presented. Motion carried.

Correspondence

None.

Old Business

Continued review of Solid Waste Plan Language.

Discussion took place regarding the DEQ's concerns, over the use of motion made by Dan Skrzeczkoski, seconded by Tom Rankl to eliminate the referenced to each zoning ordinance and insert language to allow landfills in areas zoned for ~~commercial~~ use.

agriculture

Motion carried with Kurtz voting no.

The Committee discussed the concern of the DEQ, regarding the vagueness of the utility language in the siting criteria, with the consensus being to eliminate references to utility availability.

Motion was made by Nancy Ferguson, seconded by Dan Skrzeczkoski, to eliminate items 1., 2., and 3. B, under the Section pertaining to local ordinances and regulations affecting solid waste disposal.

Charlevoix County Solid Waste Planning Committee
May 15, 2000

Minutes

Meeting called to order at 7:10 p.m., by Chairman Johnson.

Members present: Richardson, Skrzeczkoski, Johnson, Patrick, Smith, Strahl, Frykberg, Ferguson, and Kurtz.

Members absent: Rankl (excused), Lindberg (excused), Pizzurro, Laney, and Hass.

Minutes needing correction with wording from Commercial to Agricultural, in the paragraph beginning "Discussion took place.....". Motion made to approve the minutes as corrected.

The members were invited to make comments, and to state if they have problems with the Plan as mailed to them.

Richardson fine with the Plan.

Dan has two pages he has concerns on. First on page 57 – second line should be changed to read: "management needs for the solid waste generated within Charlevoix County for the next ten years.", dropping the words "five years and, if possible". The next was on page 98, under Disposal Areas, 4th paragraph, second sentence – should read "Private enterprise for monofills located within the County, provided the monofill is owned and operated by the company generating the waste disposed of in the monofill."

Ferguson had a question on page 92, pertaining to zoning. She asked if this is a State law. Sullivan stated he had spoken with the DEQ, and they had stated if it is allowed by right, it would be acceptable. It was suggested the wording be changed to: "Zoning – Landfills shall be located in zoning districts in which they are permitted as a use by right, or in any area zoned to allow agricultural, commercial, or industrial uses."

Sullivan stated the only Type II Landfill will be owned by the County, and the only Type III to be operated by private owners will be monofill.

Johnson is happy with it.

Patrick is happy with it.

Smith is generally happy.

Strahl stated that on page 38, words are transposed, and Sullivan will correct them.

Frykberg happy with Plan.

Ferguson asked if Sullivan is still planning to post the enforcement numbers to call when problems arise in the recycling program. He stated he will do that.

Motion by Dan Skrzeczkoski, supported by Randy Frykberg, to approve the Solid Waste Plan, as presented. Motion carried.

Sullivan stated there are still some minor changes and additions to the plan, which will be provided to the Committee, but the content will not be changed.

Next Monday night, the Planning Commission will act on it, then the County Board will act on it, and it will be sent out to townships, cities, and the Village of Boyne Falls.

Johnson stated the Plan needs to be sent to the Board by Friday, for action on the next Wednesday. He also thanked the members, on behalf of the Board, for the efforts they put in to get the plan finished.

Motion by Skrzeczkoski to adjourn at 7:38 p.m. Motion supported by Smith. Motion carried.

SOLID WASTE PLAN RESOLUTION

Whereas: Charlevoix County appointed a Planning Commission, under PA282, of 1945, for the purpose of developing long range plans to guide the growth and development of Charlevoix County, and

Whereas: the Charlevoix County Planning Commission has been appointed the Designated Planning Agency, and a Solid Waste Planning Committee has been appointed to assist with the development of the Solid Waste Plan, pursuant to PA 451, of 1994, and

Whereas: the Solid Waste Committee has developed a draft solid waste plan, and a public hearing has been duly noticed in accord with PA 282, and 451, and following the public hearing, the plan has been approved by the Solid Waste Planning Committee, following changes being made based upon comments received at said public hearing, and

Whereas: the Solid Waste Committee recommended adoption of this Plan by the Planning Commission and the County Board of Commissioners;

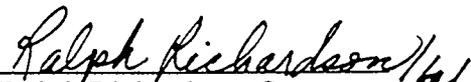
Now, therefore, be it resolved: the Charlevoix County Planning Commission hereby adopts this Solid Waste Management Plan, as a component of the Charlevoix County Comprehensive Plan, and recommends this plan also be adopted by the County Board of Commissioners;

Be it further resolved: following adoption of this plan, no work shall be initiated on any project involving the expenditure of public funds for the acquisition of land, erection of structures, extension construction, or improvement of any physical facility pertaining to solid waste by any county agency until such time as the Planning Commission has had sufficient time to review and comment upon said expenditures, pursuant to PA 282, of 1945, as amended.

Motion to adopt resolution made by Ralph Richardson, supported by Sandra Stanley.

Roll Call Vote:	Yes	No	Abstain	Absent
Jamie Hass				X
Dennis Jason				X
Larry Levensgood	X			
Curt Petrak				X
Ralph Richardson	X			
Sandra Stanley	X			
Tom Wieland.	X			

I certify that the above accurately reflects the actions of the Charlevoix County Planning Commission, at their meeting held on May 22, 2000.


Ralph Richardson, Secretary

RR/baf

Charlevoix County Planning Commission

COUNTY BUILDING
301 STATE STREET
CHARLEVOIX, MICHIGAN 49720

TELEPHONE 231 547-7234
FAX 231 547-7217

SPECIAL MEETING
MAY 22, 2000

MINUTES

Meeting was called to order at 7:45 p.m., by Chairman Tom Wieland.

Members present: Tom Wieland, Ralph Richardson, Larry Levengood, and Sandra Stanley.

Members absent: Jason, Hass, and Petrak (excused).

Others present: Sullivan, Planning Director; Duggan, Petoskey News Review.

Minutes:

Will be held over for the next meeting.

Solid waste minutes are provided, and it would be appropriate that the Planning Commission acknowledge that we received the solid waste minutes.

Sandra Stanley, moved, supported by Ralph Richardson, that we acknowledge the receipt of the minutes of the last solid waste committee, as the Plan is now completed, and the committee will not need to meet in the future. Motion carried.

Sullivan stated the Solid Waste Plan has been two years in the making, and has changed several times, as to recommendations, resulting from changes in the industry in the last few years. The Solid Waste Committee approved the plan at its meeting last Monday night (May 15, 2000). They are passing it on to the Planning Commission tonight, and if they approve it, it will go on to the County Board of Commissioners for its meeting on Wednesday.

Levengood asked if anyone is planning on attending the Board meeting. Sullivan is planning to attend.

Motion by Richardson, supported by Stanley, to adopt the Solid Waste Plan Resolution. Motion carried with 4 yes, 0 no, 0 abstain, and 3 absent.

Richardson asked the Planner to explain the last paragraph of the resolution. Sullivan stated it is an excerpt from the County Planning Act, allowing a plan to be adopted in whole, or in part. This plan is advertised not only in accordance with Part 115 of PA 451 of 1994, the Solid Waste Plan for the Natural Resources Act, but also in compliance with the County Planning Act (PA 282 of 1945). This act requires that once a plan is approved, any expenditures in regard to the topic addressed in the plan is subject to review and approval by the Planning Commission, or a public hearing needs to be held prior to expenditures being made.

Levengood asked the Planner if there are any things in the Plan that we should be aware of that might come back and jump at us. Sullivan stated he does not think so. He stated the last plan seemed to take care of problems we had crop up. It does allow for the County to open up a Type II Facility if the need arises. Based upon information we have received from Leelanau County, Waste Management, and the State of Michigan, (about our ability to use the landfill in Presque Isle), also, the letter from Republic Industries stating they have provided for ten years of waste from Charlevoix County, in Elk Lake Run and the White Feather Facility (in Bay County). They (Bay County) are in the process of changing their plan to allow our waste to go there, so we have adequate space for our waste. The Plan provides a lot of flexibility as to where our waste can go. Because of the space that has been made available, we will not have to go through the annual capacity certification to the DEQ.

Levengood said that this means unless something drastic happens, we are taken care of. But what could happen to change that? Some companies may change their decision to haul waste from here, but Sullivan stated he feels comfortable with the promises made to Charlevoix, by these other counties.

Sullivan has sent letters to Crawford County, Clare County, and the manager of Waste Management, for capacity purposes, but has not received a reply back from them, at this time.

Discussion took place on who owns the different facilities, and how changes at those facilities would affect us. Richardson said he kept thinking about all of the illegal hauling to places we don't have agreements with, and maybe those companies will get caught in their own trap.

Levengood stated he wanted to discuss the meeting schedule for the cities, townships, and the Village of Boyne Falls. Sullivan stated he has spoken with Skrzeczkoski, and he will take care of the meeting with Eveline Township. He has a call in to Strahl, concerning the City of Boyne City. Sullivan invited all of the members who wanted to attend some of these meetings, to please do so. He stated he is contacting the townships to see if they feel it is necessary for someone to attend the meetings at which the Plan will be discussed.

Wieland stated he felt it was important to have someone go to the Island, because then the Plan can be explained and questions answered.

Sullivan thinks that Boyne Valley is one that might need someone there, to make sure they have a good understanding of it. He stated he is putting a better summary of the plan together than is included in the executive summary. He stated he is putting together a synopsis of what it says in language everyone can understand. We need 67% approval by the political jurisdictions, and would like to get more.

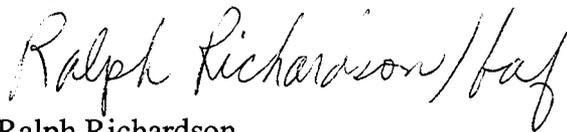
The next Planning Commission will be June 1, 2000. Sullivan will work out a strategy to make sure the approvals on the Solid Waste Plan take place. Sometimes if no one is at a meeting to present the plan, the community does not act upon it.

Sullivan stated that the office sent a letter to Charlevoix Township stating we need more information on cases we are asked to review. He stated the Serna Rezone in Charlevoix Township was only for part of the property, but it was not indicated which part in the material they gave us.

Regarding the MIRIS maps and Sears Creek, Sullivan met with the DEQ people and they indicated they hoped we were going to change the maps, as their staff walked through and they did not believe the area contained a creek. Sullivan asked if they walked through the other two creeks that are not shown on this map. He stated he also spoke with DNR and asked them what their position was on changing the map. Their position is that they are not going to change their maps, because they were based on the USGS 7 ½ Quadrangle, and if they get a new set of maps that shows no creek, they will change it, not until then.

Motion by Ralph Richardson, supported by Sandra Stanley, to adjourn at 8:30 p.m.
Motion carried.

Respectfully Submitted,



Ralph Richardson
Secretary

RR/baf

May 24, 2000

SOLID WASTE PLAN

R E S O L U T I O N

WHEREAS, the Solid Waste Committee has developed a draft solid waste plan and held a public hearing on it; and

WHEREAS, the Solid Waste Committee recommended adoption of this Plan by both the Planning Commission and the Charlevoix County Board of Commissioners; and

WHEREAS, the Planning Commission met in special session on May 22, 2000, and adopted the draft Solid Waste Plan as presented;

NOW THEREFORE BE IT RESOLVED, that the Charlevoix County Board of Commissioners upon the recommendations of the Solid Waste Committee and the Planning Commission, hereby adopt the Solid Waste Plan as presented.

Submitted by:

VICTOR PATRICK

CERTIFIED	
Jane E. Brannon, County Clerk	
<i>Cheryl D. Browne</i>	7/12/00
DEPUTY	DATE

#00-027

CHARLEVOIX COUNTY BOARD OF COMMISSIONERS
MAY 24, 2000

The meeting was called to order at 7:00 p.m. by the Chairman in Boyne City. Present were Commissioners Johnson, Price, Behling, Patrick, Smith and Roloff, 6.

The Pledge of Allegiance was led by the Clerk.

MINUTES OF THE MAY 10, 2000 MEETING

Moved by Commissioner Price to approve the minutes of the May 10, 2000, Board of Commissioners meeting as presented.

VOICE VOTE: All in favor. Motion carried.

UNSCHEDULED PUBLIC COMMENT

Louis McKenzie, Veteran's Affairs Board member, handed out copies of the law pertaining to the appointment of the Veteran's Counselor. He feels that the Board went against the Veteran's Committee recommendation. He doesn't feel that the Board appointee will be able to do the job.

The Personnel Committee explained that this person will be reviewed in six months as is the county policy.

APPOINTMENT

The Chairman sought the confirmation of David Seeley to the Parks & Recreation Commission and of Ted Sherman to the Economic Alliance. Moved by Commissioner Smith to confirm the appointments. VOICE VOTE: All in favor. Appointments confirmed.

RESOLUTION--TAX LIMITATION ADVISORY RECOMMENDATION (#00-026)

Moved by Commissioner Price that the following resolution be adopted:

WHEREAS, the Charlevoix County Board of Commissioners has received the Tax Limitation Advisory Committee Allocation of the 5.9 mills; and

WHEREAS, the Committee recommends that the tax limitation be set at a total of 5.9 mills with the County receiving 4.70 mills, Townships, 1.00 mill and the Intermediate School District, .20 mill;

NOW THEREFORE BE IT RESOLVED, that the Charlevoix County Board of Commissioners hereby concurs with the recommendation of the Tax Limitation Advisory Committee setting the fixed millage rate and authorizes the Clerk to place this issue on the August 8, 2000, Primary Ballot for a four year time period, 2001, 2002, 2003, 2004. VOICE VOTE: All in favor. Motion carried.

RESOLUTION--SOLID WASTE PLAN (#00-027)

Moved by Commissioner Patrick that the following resolution be adopted:

WHEREAS, the Solid Waste Committee has developed a draft solid waste plan and held a public hearing on it; and

WHEREAS, the Solid Waste Committee recommended adoption of this Plan by both the Planning Commission and the Charlevoix County Board of Commissioners; and

WHEREAS, the Planning Commission met in special session on May 22, 2000, and adopted the draft Solid Waste Plan as presented;

NOW THEREFORE BE IT RESOLVED, that the Charlevoix County Board of Commissioners upon the recommendations of the Solid Waste Committee and the Planning Commission, hereby adopt the Solid Waste Plan as presented. VOICE VOTE: All in favor. Motion carried.

DISCUSSION

The Board members discussed various options available to people regarding fixing up county roads, such as bond issues or millage.

CORRESPONDENCE AND COMMUNICATIONS

Correspondence was received from Arenac County, County Line Bulletin and from Eveline Township regarding the resignation of their Township Supervisor, David Willson. All items of correspondence were reviewed and either referred to the appropriate committee or filed.

OTHER REPORTS

Commissioner Roloff reported that she went to Beaver Island with the Housing Coalition members and other groups. This was a two day meeting and the needs of Senior Citizens were discussed. She also reported that there is a problem with officers not being able to get a key to the Humane Society.

Commissioner Smith reported that P.A. 511 problems have been resolved.

Commissioner Patrick reported on an lengthy Sanitary Appeal that is still ongoing.

Commissioner Price reported on the progress at the jail. It is moving along faster than it was.

Moved by Commissioner Price that this session of the Board of Commissioners be adjourned.

PHILLIP R. JOHNSON, CHAIRMAN

JANE E. BRANNON, COUNTY CLERK

CERTIFIED	
Jane E. Brannon, County Clerk	
<i>Cheryl B. Brannon</i>	7/12/00
DEPUTY	DATE

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The City of Charlevoix, of Charlevoix County has
had numerous opportunities to provide input into the development
of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the City of Charlevoix,
Charlevoix County, hereby goes on record as approving the
Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: Council member Campbell

SECONDED BY: Council member Carlson

YEAS: Council members Witthoëft, Carlson, Campbell and Bellows

NAYS: Council members Chamberlain and Barnes

I hereby attest that this is an official record of the actions of
the CITY OF Charlevoix.

ON: July 12, 2000

Bea Patron Date
City Clerk

Beatrice K. Patron

Please return one signed copy to Planning Dept.



City of Boyne City

319 N. Lake Street

Boyne City, Michigan 49712
www.boyne-city.com

Phone 231-582-6597
Fax 231-582-6506

**CITY OF BOYNE CITY
COUNTY OF CHARLEVOIX**

Resolution No. 0013-2000

CHARLEVOIX COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, the City of Boyne City, Charlevoix County, has had numerous opportunities to provide input into the development of the County Solid Waste Management Plan; and

WHEREAS, the City of Boyne City has reviewed the plan and believes the plan will accommodate the solid waste generated in the County well into the future;

NOW, THEREFORE, BE IT RESOLVED that the City of Boyne City, Charlevoix County hereby goes on record as approving the Charlevoix County Solid Waste Management Plan.

ROLL CALL

Aye: Standen, Vondra, Grunch, Ruggles, Stackus.

Nay: None.

Abstain: None.

Absent: None.

RESOLUTION DECLARED ADOPTED.

Sue Hobbs

Sue Hobbs
Boyne City Clerk

I, Sue Hobbs, City Clerk of the City of Boyne City, County of Charlevoix and State of Michigan, hereby certify that the above is a true and complete copy of certain proceedings taken by the City of Boyne City at its regular meeting held Tuesday, June 27, 2000, and that said meeting was conducted and public notice of said meeting was given pursuant to and in full compliance with the Open Meetings Act 267 of the Public Acts of Michigan of 1976, and the minutes of said meeting were kept and will be or have been made available as required by said Act.

Sue Hobbs

Sue Hobbs Boyne City Clerk

June 29, 2000

Date

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of BAY, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
BAY, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: CHRISTOPHER L. MONK

SECONDED BY: LARRY H. BERGMANN

YEAS: SIMMONS, CHIPMAN, BERGMANN, MONK

NAYS: NONE

Abstain: Moeschke

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF BAY.

ON: JUNE 8 2000
Date

David L. Simmons
Township Clerk

DAVID L. SIMMONS

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Village of Boyne Falls, of Charlevoix County has had numerous opportunities to provide input into the development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the plan will accommodate the solid waste generated in the County well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Village of Boyne Falls, Charlevoix County, hereby goes on record as approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: Kevin Gaskowski

SECONDED BY: Bill Carson

YEAS: 4

NAYS: 0

I hereby attest that this is an official record of the actions of the VILLAGE OF BOYNE FALLS _____.

ON: 6-26-00

Date

Marilyn Cousineau
Village Clerk

Please return one signed copy to Planning Dept.

Charlevoix County Planning Department

COUNTY BUILDING
CHARLEVOIX, MICHIGAN 49720

TELEPHONE 616 547-7234

April 20, 2000

Trudy Galla
Director
Leelanau County Planning Department
PO Box 546
Leland, MI 49654-0546

Dear Mrs. Galla;

Charlevoix County is nearing completion of it's Solid Waste Management Plan. As a part of this plan, we are requesting letters from counties as to what quantities of waste they are willing to accept from Charlevoix County on an annual basis over the next ten years, as well as any conditions that might exist in your Solid Waste Management Plan regarding this possible movement of solid waste.

At the current time, Charlevoix County contains a licensed Type II landfill which is nearing capacity. In the past, this facility has closed it doors to competing hauling companies. Recently it has decided to reopened their doors to their competitors. According to the MDEQ staff, we have no control over the decisions of this nature by the owner of a landfill. The recent mergers in the waste industry and concerns over a reduction in competition in the waste industry has raised the issue of adequate disposal as well as the ability to send waste to numerous facilities owned by different companies, both today and in the future.

For these reasons, our Draft Solid Waste Management Plan provides for import of and export of solid waste with a number of counties of which Leelanau County is one. Our plan also provides for a county owned landfill to be constructed within Charlevoix County. We believe that solid waste is a public health issue as well as having economic ramifications.

Charlevoix County is expected to generate approximately 378,890 tons of traditional household, commercial and industrial wastes over the next 10 year time period. Additional special wastes are generated as well, with all of it either going into or capable of being disposed of in Type III monofills located within Charlevoix County. While we project the above mentioned quantities of waste to be generated, we also expect a portion of this waste to be recycled through our expanded recycling program which is currently under development.

We are desirous of a letter indicating to what extent your county

Charlevoix County Planning Department

COUNTY BUILDING
CHARLEVOIX, MICHIGAN 49720

TELEPHONE 616 547-7234

April 19, 2000

Dave Barrons
Glen's Landfill
Waste Management Inc.
518 E. Traverse Highway
Maple City, MI 49664

Dear Mr. Barrons;

We are in the process of completing the Charlevoix County Solid Waste Management Plan. As a part of the plan, we would like to demonstrate that disposal capacity exists and is available for use by Charlevoix County for the next 10 years. Glens Landfill is one of the landfills we would like to include as being able to provide all or a portion of our disposal needs for that period of time.

Based upon current calculations, we estimate the total amount of waste to be generated in Charlevoix County during the ten year time period to be 2,038,890 tons. Of that quantity, 1,560,000 tons would be special wastes which are comprised of kiln dust from Southdown Cement Company and foundry sands from the East Jordan Iron Works. The 750,000 tons of kiln dust will be disposed of at the Southdown Type III facility. The East Jordan Iron Works will generate approximately 810,000 tons of foundry sands. The traditional household, commercial and industrial wastes generated in the county over the next 10 years would equate to 378,890 tons.

From Glen's Landfill, we are interested in knowing how much waste, if any, your firm would be willing to commit to accepting, both annually and in total between now and the end of the year 2010. We would appreciate a response in writing for inclusion in our draft Solid Waste Management Plan.

We will also be requesting a similar letter from Leelanau County.

We are looking forward to your response.

Sincerely yours,



Larry Sullivan
Planning Director

cc: Trudy Galla

Leelanau
County
Planning
Department



113 S. Grand Ave.
P.O. Box 546
Leland MI 49654-0546
231-256-9812
231-946-1162 Ext. 812
Fax: 231-256-0174

Trudy J.C. Galla, AICP
Planning Director

Matthew R. Fortunak
Senior Planner

Karen J. Gleason
Secretary

Ron Crummel
Housing Coordinator

Address Administration
Census Data
Economic Development
GIS Data
Growth Management
Housing Program
Land Use Issues
Mapping
Master Plans
Planning Commission
Recycling
Solid Waste Issues
Statistics
Transportation

April 24, 2000

Larry Sullivan, Planning Director
Charlevoix County
County Building, 301 State Street
Charlevoix, MI 49720

Dear Larry Sullivan:

The Leelanau County Solid Waste Management Plan, as updated in 1998, identifies your county for waste importation and exportation contingent on a signed reciprocal agreement on file with the Michigan Department of Environmental Quality (DEQ). At this time, there is no such signed agreement between our two counties. Recently, a situation arose where a company in another county wanted to dispose of material at Glen's Sanitary Landfill in Leelanau County. Since no reciprocal agreement was on file with that county, the DEQ prevented the waste from entering the landfill.

Enclosed are two copies of the reciprocal agreement approved by the Leelanau County Solid Waste Management Planning Committee. If Charlevoix County wishes to enter into the attached reciprocal agreement, please have both copies signed and returned to me. Both copies will be signed by the Chairperson of the Leelanau County Board of Commissioners and one will be returned to you. If you have any questions or comments regarding this matter, please feel free to contact me at (231) 256-9812.

Sincerely,

Matthew Fortunak

W

GLEN'S SANITARY LANDFILL
A WASTE MANAGEMENT COMPANY

518 East Traverse Hwy.
Maple City, MI 49664
(231) 228-5961
(231) 228-5991 Fax

Larry Sullivan
Planning Director
Charlevoix County Planning Dept.
301 State St.
Charlevoix, MI. 49720

4/27/00

Dear Mr. Sullivan,

Per the requirements of the DEQ County Solid Waste management plans "plan Format" Section III-28 "Siting review procedures", and section D-3 "listed Capacity", Glen's landfill submits the following:

Glen's Landfill is located in Leelanau County and operates under the recently DEQ approved and updated county solid waste plan. In that approved plan update, Charlevoix County is listed as a contingency. Under Glen's existing 133 acre DEQ expansion permit, and subsequent licensing program, we can supply your county with 10 years of airspace for part of or all the volume you mention in your letter dated April 19, 2000.

Please feel free to call me with any questions at. (231) 228-6725 Ext. # 103.

Sincerely,



Dave Barron
Site Manager

Cc: Trudy Galla, Leelanau County Planning Director
File

Solid Waste Reciprocal Agreement

WHEREAS, Charlevoix County, as well as all counties in the State of Michigan, are required by Part 115 of Act 451, P.A. 1994 and Act 641, P.A. 1978, as amended, to update the current Solid Waste Plan, and;

WHEREAS, Charlevoix County and Leelanau County are responsible for the final deposition of all waste generated in their respective counties, and;

WHEREAS, Part 115 of Act 451, P.A. 1994, and Act 641, P.A. 1978, as amended, require that both the receiving and the sending county's solid waste management plan include the mechanism for a signed agreement between the two counties prior to any shipment of solid waste,

THEREFORE, BE IT RESOLVED, THAT Charlevoix County will agree to accept solid waste from Leelanau County so long as Charlevoix County has an approved solid waste disposal site that is open for public use.

BE IT FURTHER RESOLVED, THAT Leelanau County will agree to accept solid waste from Charlevoix County so long as an approved solid waste disposal site exists in Leelanau County that is open for public use.

BE IT FURTHER RESOLVED, THAT Charlevoix County agrees to establish and maintain a program for diverting a portion of its waste from landfill facilities and send its ANNUAL PROJECT UPDATE AND PROGRESS REPORT to Leelanau County. The waste diversion program must be acceptable to Leelanau County and shall contain, at a minimum, the following four (4) items:

1. Public Education Program

Charlevoix County shall participate in a program to inform the public of proper disposal methods for various wastes so that no improper wastes are disposed of in the landfill. The educational program shall also inform the public as to the importance of recycling and how the public can participate.

2. Recycling Program

The Charlevoix County recycling program shall include a sufficient number of drop-off sites or sufficient curbside recycling to provide the public with an opportunity to participate in the program.

3. Composting Program

Charlevoix County shall establish or participate in a composting program to prevent yard waste and other organic wastes from being disposed of in the landfill.

4. Household and Agricultural Hazardous Waste Collection

Charlevoix County shall conduct or participate in at least one (1) household and agricultural hazardous waste collection day per year. The collected wastes shall be disposed of at a facility licensed to receive that type of waste.

BE IT FURTHER RESOLVED, THAT CHARLEVOIX County agrees to implement a waste diversion program, as outlined above, within one (1) year of the adoption of the Leelanau County Solid Waste Management Plan 1998 Update.

BE IT FURTHER RESOLVED, THAT this agreement is valid until the next revision of the Leelanau County Solid Waste Plan is approved. However, either county may give one-hundred eighty (180) days written notice of intent to terminate this agreement to allow the other party time to develop another source for solid waste disposal. Each county will save and hold the other county harmless from any and all liability actions arising from the disposal of solid waste.

FOR CHARLEVOIX COUNTY

FOR LEELANAU COUNTY

Chairman
Charlevoix County
Board of Commissioners

Jean I. Watkoski, Chairperson
Leelanau County
Board of Commissioners

Date

Date

6/6/00

We are desirous of a letter indicating to what extent your county would be willing to accept waste from Charlevoix County in total or on an annual basis for the next 10 years as well as any conditions that would need to be complied with should it be necessary for waste to be shipped from Charlevoix to Clare County.

Should you have any questions, feel free to contact me at the number listed above or by e-mail at LSulliva@nwm.cog.mi.us.

Sincerely,

Larry Sullivan
Planning Director

cc: Debbie Johnston

Charlevoix County Planning Department

COUNTY BUILDING
CHARLEVOIX, MICHIGAN 49720

TELEPHONE 616 547-7234

April 20, 2000

Charles Pardue
Drain Commissioner
Clare County DPW
PO Box 438
Harrison, MI 48625

Dear Mr. Pardue;

Charlevoix County is nearing completion of it's Solid Waste Management Plan. As a part of this plan, we are requesting letters from counties as to what quantities of waste they are willing to accept from Charlevoix County on an annual basis over the next ten years, as well as any conditions that might exist in your Solid Waste Management Plan regarding this possible movement of solid waste.

At the current time, Charlevoix County contains a licensed Type II landfill which is nearing capacity. In the past, this facility has closed it doors to competing hauling companies. Recently it has decided to reopened their doors to their competitors. According to the MDEQ staff, we have no control over the decisions of this nature by the owner of a landfill. The recent mergers in the waste industry and concerns over a reduction in competition in the waste industry has raised the issue of adequate disposal as well as the ability to send waste to numerous facilities owned by different companies, both today and in the future.

For these reasons, our Draft Solid Waste Management Plan provides for import of and export of solid waste with a number of counties of which Clare County is one. Our plan also provides for a county owned landfill to be constructed within Charlevoix County. We believe that solid waste is a public health issue as well as having economic ramifications.

Charlevoix County is expected to generate approximately 378,890 tons of traditional household, commercial and industrial wastes over the next 10 year time period. Additional special wastes are generated as well, with all of it either going into or capable of being disposed of in Type III monofills located within Charlevoix County. While we project the above mentioned quantities of waste to be generated, we also expect a portion of this waste to be recycled through our expanded recycling program which is currently under development.

Charlevoix County Planning Department

COUNTY BUILDING
CHARLEVOIX, MICHIGAN 49720

TELEPHONE 616 547-7234

April 20, 2000

Debbie Johnston
Northern Oaks Landfill
Waste Management Inc.
PO Box 813
Harrison, MI 49733

Dear Mrs. Johnston;

We are in the process of completing the Charlevoix County Solid Waste Management Plan. As a part of the plan, we would like to demonstrate that disposal capacity exists and is available for use by Charlevoix County for the next 10 years. The Northern Oaks Landfill in Clare County is one of the landfills we would like to include as being able to provide all or a portion of our disposal needs for that period of time.

Based upon current calculations, we estimate the total amount of waste to be generated in Charlevoix County during the ten year time period to be 2,038,890 tons. Of that quantity, 1,560,000 tons would be special wastes which are comprised of kiln dust from Southdown Cement Company and foundry sands from the East Jordan Iron Works. The 750,000 tons of kiln dust will be disposed of at the Southdown Type III facility. The East Jordan Iron Works will generate approximately 810,000 tons of foundry sands. The traditional household, commercial and industrial wastes generated in the county over the next 10 years would equate to 378,890 tons.

From the Northern Oaks Landfill, we are interested in knowing how much waste, if any, your firm would be willing to commit to accepting, both annually and in total between now and the end of the year 2010. We would appreciate a response in writing for inclusion in our draft Solid Waste Management Plan.

We will also be requesting a similar letter from Clare County. We are looking forward to your response.

Sincerely yours,



Larry Sullivan
Planning Director

cc: Charles Pardue



NORTHERN OAKS RECYCLING AND DISPOSAL FACILITY
A WASTE MANAGEMENT COMPANY

P.O. Box 813
513 N. County Farm Road
Harrison, Michigan 48625
(517) 539-6111

June 19, 2000

Mr. Larry Sullivan, Planning Director
Charlevoix County Planning Department
301 State Street
Charlevoix, MI 49720

RE: Disposal Capacity
Northern Oaks Recycling and Disposal Facility

Dear Mr. Sullivan:

The purpose of this letter is to respond to your request dated April 20, 2000 regarding the acceptance of Charlevoix County waste at Northern Oaks RDF in Clare County.

Northern Oaks RDF has sufficient capacity to accept waste from Charlevoix County. The facility is capable of accepting the annual and ten year forecasted tonnage generation represented in you letter.

Feel free to call me if you require any other information for inclusion of Northern Oaks in the Charlevoix County Solid Waste Management Plan.

Sincerely,

Debora L. Johnston
Divisional Engineer

c: Clare County
Terry Cooney, WM
Rich Leszcz, Northern Oaks RDF

OF OF PUBLICATION

LEGAL NOTICES

CHARLEVOIX COUNTY PLANNING DEPARTMENT PUBLIC HEARING NOTICE

Public hearing will be held to accept comments from the public regarding the Charlevoix County Draft "Solid Waste Management Plan", a component of the Charlevoix County Comprehensive Plan, March 13, 2000. This hearing will be at 7:30 p.m. in the Pine Lake Room, Charlevoix County Building, 301 State Street, Charlevoix, Michigan. Written and oral comments will be accepted at this hearing. Written comments will continue to be accepted at Charlevoix County Planning Department Offices located at 301 State Street, Charlevoix, Michigan, 49720 until Monday, March 20th. Copies of all Solid Waste Management Plans are provided to each library in the area as well as having been sent to the elected official for each township and incorporated village within the county. Copies may also be inspected at the Planning Department, the address listed above.

(L-2/11,3/8)

STATE OF MICHIGAN COUNTY OF EMMET

Kristen Y. Hart

being duly sworn, deposes and says that she is the principal clerk of the Petoskey News-Review, a newspaper printed and published in the county of Emmet in said state; that the annexed printed notice was published in said newspaper.

February 11 & March 6, 2000

Kristen Y. Hart

Subscribed and sworn to before me this 24th day of May

A.D. 2000.

Dawn H. Ferguson

Notary Public in and for Emmet County, Michigan.

My Commission expires:

DAWN H. FERGUSON
Notary Public, Emmet County, Mich.
My Commission Expires December 23, 2001

STATE OF MICHIGAN)

AFFIDAVIT OF PUBLICATION

County of)

Charlevoix

SS)

)

Hugh Conklin

HUGH CONKLIN

being duly sworn, says that he/she is the publisher of the Citizen & Jordan Journal, a newspaper printed, published and circulated in said county and otherwise qualified according to Supreme Court Rule; that annexed hereto is a printed copy of a notice which was published in said newspaper on the following date, or dates, to wit:

February 16, 2000
_____, 20____
_____, 20____
_____, 20____
_____, 20____
_____, 20____
_____, 20____

Subscribed and sworn to before me

this 16th day _____
of February _____ A.D. 2000

Tammy O'Dell

Notary Public,
Tammy L. O'Dell
Notary Public State of Michigan
Kalkaska County
Acting in ~~Charlevoix~~ Charlevoix County
My Commission Expires October 27, 2003

My commission expires:

PUBLIC HEARING
CHARLEVOIX COUNTY COMPREHENSIVE PLAN
A public hearing will be held to accept comments from the public regarding the Charlevoix County Draft "Solid Waste Management Plan," a component of the Charlevoix County Comprehensive Plan, on March 13, 2000. This hearing will be held at 7:30 p.m. in the Pine Lake Room of the Charlevoix County Building, 301 State Street, Charlevoix, Michigan, 49720. Written and oral comments will be accepted at this hearing. Written comments will continue to be accepted at the Charlevoix County Planning Department offices located at 301 State Street, Charlevoix, Michigan, 49720 until noon on Monday, March 20th. Copies of the Draft Solid Waste Management Plan have been provided to each library in the county as well as having been sent to each chief elected official for each township, city and incorporated village within the County. Copies may also be inspected or purchased at the Planning Department at the address listed above.

clear liquid form and allegedly referred to it as a protein drink.

According to an autopsy report, an overdose of GHB was the cause of Hewitt's death.

This was Guzikowski's second arrest on this matter.

Police picked him up in January and charged him with delivery of GHB. However, police discovered an error in the original lab report that indicated the level of GHB in Hewitt's body was higher than it actually was.

Another test was conducted whose results showed the level in Hewitt's body was high enough to cause death.

While police waited for the results of this second lab report, a delivery charge against Guzikowski was dismissed with prejudice.

However, with the new results supporting the original charge, Guzikowski was arrested again and charged with murder in the second degree, manslaughter and death by poisoning. The original delivery charge was reinstated.

Official  Notice

PUBLIC HEARING NOTICE

A public hearing will be held to accept comments from the public regarding the Charlevoix County Draft "Solid Waste Management Plan," a component of the Charlevoix County Comprehensive Plan, on March 14, 2000. This hearing will be held at 7:30 p.m. in the Pine Lane Room of the Charlevoix County Building, 301 State Street, Charlevoix, Michigan, 49720. Written and oral comments will be accepted at this hearing. Written comments will continue to be accepted at the Charlevoix County Planning Department offices located at 301 State Street, Charlevoix, Michigan 49720 until noon on Monday, March 20th. Copies of the Draft Solid Waste Management Plan have been provided to each library in the county as well as having been sent to each chief elected official for each township, city and incorporated village within the County. Copies may also be inspected or purchased at the Planning Department at the address listed above.

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APPENDIX C
PUBLIC PARTICIPATION AND APPROVAL

The following summarizes the processes which were used in the development and local approval of the Plan including a summary of public participation in those processes, documentation of each of the required approval steps, and a description of the appointment of the solid waste management planning committee along with the members of that committee.

PUBLIC INVOLVEMENT PROCESS: A description of the process used, including dates of public meetings, copies of public notices, documentation of approval from solid waste planning committee, County Board of Commissioners, and municipalities.

All of the Solid Waste Committee Meetings were open to the public. Agendas were mailed to each chief elected official of every unit of government a minimum of 10 days prior to each meeting.

Copies of meeting agendas, or notices, were mailed to all persons requesting to be placed upon our mailing list for notification of our meetings. Copies were also mailed to the two-week newspapers published in Charlevoix County, as well as the Petoskey News Review, which is the predominant daily paper in Charlevoix County.

Copies of agendas were posted in the County Building, in compliance with the Michigan Open Meetings Act.

Notices of the public hearing were advertised in compliance with the requirements of both Part 115 of P.A. 451, of 1994, as amended, and the County Planning Act.

PLANNING COMMITTEE APPOINTMENT PROCEDURE:

Names of interested parties were solicited by County Board of Commissioners and from past Solid Waste Committees. The Chairman of the Board nominated a list of persons, which was confirmed by the full Board. The members were appointed at the expiration of their 2-year term.

PLANNING COMMITTEE

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

Four representatives of the solid waste management industry:

1. Don Pizzurro – Waste Management, Inc.
2. Tom Rankl – Top Rank Disposal
2. Jamie Hass – Walloon Lake Refuse
4. A. Tad Malpass – East Jordan Iron Works *
4. B. John Laney – SouthDown Cement

One representative from an industrial waste generator:

1. Don Smith – Northland Tobacco Company

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

1. Nancy Ferguson - Water & Air Team Charlevoix
2. Randy Frykberg - Environmental consultant

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

1. Phil Johnson – Charlevoix County Board of Commissioners

One representative from township government:

1. Dan Skrzeczowski – Eveline Township Trustee

One representative from city government:

1. Eleanore Stackus, represented by Eric Strahl **

One representative from the regional solid waste planning agency:

1. Vic Patrick – County Board Representative on Regional Solid Waste Committee

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

1. Prudence Kurtz - Sequonota Road, Charlevoix, MI.
2. Paul Lindberg - Wickersham Road, Charlevoix, MI
3. Ralph Richardson - Ferry Road, Charlevoix, MI

* Resigned in 1999, replaced in 2000 by County Board of Commissioners.

** Appointed by County Board, represented by Boyne City Manager.

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CHARLEVOIX COUNTY SOLID WASTE COMMITTEE

ORGANIZATIONAL MEETING
JANUARY 19, 1998

MINUTES

Larry Sullivan called the meeting to order at 7:30 p.m., and asked the members to introduce themselves. All members of the Committee were present.

Sullivan gave a brief overview of per diems, mileage, etc., and asked the members to all review the old solid waste plan prior to the next meeting. He also listed the materials that would be used in the update, such as the previous plan, solid waste planning act and rules, etc.

Staff stated that Charlevoix County has joined with 6 other counties in obtaining the services of RRS, Recycling Resources, Inc., to gather background data that is needed for updating the plan. Because all of the counties would have to obtain the same type of information, it was felt better to go together and have this group do such things as waste stream analysis, volumes, where it comes from and where it goes, and a breakdown of the items that can be recycled. This will save time for the planners to work on other parts of the plan. This will be a great time saver, and hopefully will provide a fair amount of base data.

This Committee will be dealing with policy issues. Staff's responsibility is to provide meeting notices, sending out agendas, draft language, and review the material with this committee. All meetings of this group will be public meetings and will be posted. After the Committee has completed a draft plan, then there will be a 90-day review process and a public hearing will follow that public review period. After the public hearing, comments will be compiled. Once the comments are reviewed, the Committee can make any changes it feels is needed, and then passes it on to the County Planning Commission, for their action, and on to the County Board for action. If the County Board does not approve it, it is sent back to the Planning Committee with its objections. The Solid Waste Committee reviews and responds back to the County Board for their action.

After the County Board approves the plan, it will be submitted to all of the cities, townships, and villages in the County. They will either vote to approve it, deny it, table it, or choose to take no action. By law, we have to have the approvals of at least 67% of the municipalities of the Waste Management Plan. The Planner or Committee members go out and knock on doors, and discuss the plan, requesting the communities to take action.

Once the 67% has been reached, it then goes to the Department of Environmental Quality for review. They have six months and either approves the plan or reject. If they reject it, they will then write the plan, and it will be the plan for our County.

Staff went over some changes in the Act, and some of the results of those changes, such as the way members are chosen for this committee. He went over the way members are appointed.

One of the changes is that now the County has to annually send a certification to the State of Michigan as to how much availability of capacity the county has for its solid waste. If that number falls below 66 months of capacity, the county will be forced to use the siting criteria in the solid waste plan. As long as we have 66 months, the County is not forced to use the siting criteria. We will be looking at recycling and composting. The consultant we are working with has a lot of experience in that area. We will not spend much time on the incineration of waste, as we do not have the quantity for that method of waste reduction.

Staff had provided the Committee with general guidelines provided by DEQ, and would like the Committee members to review. There are some things that may need to be done differently due to the changes in the guidelines. DEQ is losing some of their staff, so will have fewer people to review plans, as they are finished. It was mentioned that according to the guidelines, the plan would need to be completed by this summer. Staff went over the schedule that was followed last time and stated we had a two year time period last time, it was completed in 2 1/2 to 3 years, went out for review, got the required approvals. Then the DNR came back and said they did not like the siting criteria, and we went back and spent another 2 and 1/2 years thrashing over the siting criteria. We ended up with what they wanted, but it was a much longer time period. Last time those counties that got their plans in quickly, got their approvals quickly. Staff is hoping that this committee can move along and be in the first batch of plans taken to Lansing. Laws were changed during the process the last time, which also hindered us, as we were half way through the process. Hopefully we can finish this one before more changes are made. There is a push by Representative Tom Alley to make some changes, and he will continue to push for those changes.

This Committee will not come out with a plan that everyone likes, but with the diverse individuals involved, we will hopefully come up with something we can all live with.

Richardson stated they gave us 18 months to do this plan and we are already six months into that time frame. That first six months is pretty much eaten up by deciding who would do the plan, and he does not expect all counties to meet the January 1999 deadline, but would like to see Charlevoix County meet it.

Discussion took place on how we can write the plan the way Charlevoix County wants to, and still be able to get it accepted by the DEQ. That appears to be the real problem. Staff stated he feels that the members of this group, as well as the County Planning Commission needs to pressure our elected officials to support our efforts, and maybe push the Legislators, as well. One of the problems the last time was that even if some of the Solid Waste Division people felt our plan was acceptable, someone above them decided it was not. It made for a very difficult process in getting the plan approved.

Staff stated that we will not expect committee members to go around the county trying to get the plan accepted by municipalities, but if members would like to help, that would be great. If a member cannot attend a meeting, it was suggested that they contact the Planning Department ahead of time, to make sure we have quorums present at each meeting.

Discussion was held on future meeting dates. He stated there are not a lot of meeting dates available to us for various reasons. Staff handed out calendars for the members and explained that our contract with RRS has a completion date for them of June 21st. In order for some of the work they have to do, they will need material from staff and from this Committee. The short timeframe means that we will be receiving material from them the second Wednesday of the month, and get it out to the Committee members and municipalities within the 2 weeks prior to the meeting. This determines when we can hold our meetings.

If Charlevoix County does not provide the materials in a timely manner to the consultant, we will have to pay additional costs for the work. Staff would like to keep moving and keep to the rapid pace if possible.

It was decided to hold the meetings on the fourth Monday of each month, in order to meet the schedule for getting agendas and materials out. Meetings will be scheduled from 7:00 p.m. to 9:00 p.m., and staff is suggesting that the committee try to keep the meeting to two hours.

Ralph Richardson made a motion to nominate Phil Johnson as Chairman, and Nancy Ferguson as Vice-Chair. No discussion was held, and a unanimous ballot was cast for Phil Johnson, Chair, and Nancy Ferguson, as Vice-Chair. Motion carried.

Discussion was held on whether there is available money to monitor water quality. Staff stated he would check on this. Out of area waste was discussed, and the availability of capacity for the County. Staff stated that this would be discussed throughout the planning process. Staff stated that some things do not make sense, such as three haulers driving down the same street, but there may be some reasons why it is practical.

The Emmet County recycling program was discussed, and the fact that they would not have the recycling facility if they had a landfill. Also discussed was the fact that the price for recycled products changes over time and problems with having facilities without attendants. Staff stated curbside recycling and hazardous waste collection are great concepts, but they are expensive. A lot of people want them, but few people want to pay for it.

Meeting adjourned.

Note: Next meeting to be held on February 23, 1998, at 7:00 P.M.

SOLID WASTE PLANNING
FEBRUARY 23, 1998

MINUTES

CALL TO ORDER

Meeting was called to order at 7:00 p.m. by Chairman Johnson.

Members present:

Tad Malpass, Randy Frykberg, Jamie Hass, Tom Rankl, Ralph Richardson, Paul Lindberg, Don Smith, Phil Johnson, Vic Patrick, Don Pizzurro, Dan Skrzeczkoski, Nancy Ferguson, and Eric Strahl.

Members absent: Prudence Kurtz, excused.

Others present: Larry Sullivan, Nate Jason, and Ken Poquet

Sullivan introduced the Eric Strahl, City Manager of Boyne City, as the new member, representing cities, replacing Dennis Jason.

APPROVAL OF MINUTES

Skrzeczkoski moved, supported by Frykberg, to approve the minutes of the previous meeting, as printed. Motion carried.

PUBLIC COMMENT

None from the audience.

NEW BUSINESS

Discussion of Policy Statements

Sullivan reviewed the Public Act and the Administrative Rules relative to the need for Policy Statements. He further reviewed the existing policy statements from the current plan as well as recommended changes for the committee's consideration. Discussion took place regarding language changes to the existing statements as well as areas where sufficient effort has not been expended to implement many of the policy statements including enforcement of the existing plan and recycling.

Sullivan will make the changes based upon discussion and submit a new revised set to the Committee for their further consideration.

Role and Responsibility of Solid Waste Committee

Concerns were raised by committee members as to what is the role of the solid waste committee in regards to the landfill expansion issue as well as relating to "host community agreements".

Johnson stated that the Planning Commission is addressing a request from Waste Management under the current plan for a 12.2 acre expansion to the landfill. If the request meets the current solid

waste plan requirements, Waste Management will get the expansion. If the Planning Commission finds the request does not meet the current plan, Waste Management can appeal that decision to the Michigan Department of Environmental Quality. If an appeal is made and denied by the MDEQ, Waste Management could come before this committee to request acreage be included in the new plan while it is under development, which they can do at this time even if the Planning Commission was not currently reviewing the expansion request. The landfill expansion is an issue that will not go back before the County Board of Commissioners.

Richardson raised the issue of the Host Community agreement. He does not want to have both the Solid Waste Committee and the County Board of Commissioners developing a Host Community Agreement.

Johnson stated that Waste Management had submitted a letter to the County Board and that the County Board would not act upon it until after the Committee had completed its work. The Solid Waste Committee would be responsible for developing any Host Community Agreement as that would be an issue that should be addressed and resolved by this committee.

Sullivan stated he is concerned with the Solid Waste Committee's hands being tied if too many decisions are being made by other groups that are not looking at or considering how all of the issues impact each other.

Ferguson brought up concerns over the language regarding the cemetery and removal of remains.

Review of Waste Flow Maps

The map did not reflect Type II waste going from Charlevoix County into Elk Run Landfill in Presque Isle County.

Type III waste is shown as going into Ken's Type III Landfill in Grand Traverse County. It was acknowledged that only a small quantity is being disposed of at that facility.

Review of Waste Stream Data Base

Population and Waste Generation Volumes

Sullivan stated that he has concerns regarding some of this information including the population figures. The waste industry representatives on the committee also had concerns regarding the summer waste volumes. Pizzurro stated he would provide information on the waste volumes and the seasonal fluxuations the Waste Management experiences.

Sullivan indicated that the large waste generators in Charlevoix County had not been contacted and thus the waste quantities could change after the special waste flows were accounted for. The general feeling was that the industrial waste volumes are on the low side. The issue of waste from Medusa Cement Company and the

potential for a Type III Landfill to handle that waste was being researched.

Hass stated the need for an explanation as to how the population and waste generation information was created.

Richardson expressed a desire to have the information presented to us in a consistent fashion. At the present time we are discussing waste by both weight and volume. An additional concern is the differences between loose and compacted yardage.

Sullivan indicated in the section dealing with solid waste disposal areas, RRSI should add to the list the recycling drop-off locations in Emmet and Grand Traverse Counties.

Sullivan indicated that he would check on which landfills are owned by what companies and whether or not East Jordan had a yard waste pickup program.

Sullivan indicated that he would contact the consultant and attempt to have all of the information presented to us in a consistent format or at a minimum would obtain conversion tables.

Discussion took place regarding the volume of waste generated each given community vs. what is going through the community's transfer station.

Solid Waste Alternatives

Staff stated this is information for which RRSI will need to provide better cost information. At this time they are asking that we go through these options and determine which ones are worth further consideration for Charlevoix County.

Sullivan indicated that he would like to see figures from RRSI on what is being recycled in the County. He feels there is a lot more that can be recycled.

Banning of materials was discussed, and to whether it was actually banning the manufacturing of the material, or the disposal of it. If a substance is banned from being accepted at a landfill, it often ends up in the garbage bag anyway.

The committee expressed the need for a Household Hazardous Waste Collection program. HHW collection days are very expensive in comparison to the volume of waste diverted but the waste that is diverted generally has a high potential for creating serious problems. Sullivan will contact Emmet and Grand Traverse Counties to see what their experiences have been.

Grand Traverse County has offered the service to our County a few times, at a cost, in the past. A committee member raised the issue of the Big Rock closure, and the possibility that some of its waste would be decontaminated and disposed of in Type II or Type III Landfills.

Staff asked if everyone has reviewed the section on education and promotion. He stated they need to do some additional work on that. The next section discussed recycling and pick up. One member said he did not know if it was worthwhile for the consultant to spend a lot of time researching curbside recycling, when that is not feasible for the County. The Blue Bag program was discussed with the conclusion that this type of system would only work with a Material Recovery Facility combined with a landfill or transfer station.

Recycling needs to have a mechanism to pay for it. A millage is needed to make it work. The way to make recycling pay is to do the recycling for free and charge more for the garbage pick up. In this way they will recycle to lower their garbage rate. There is the ability to place a surcharge on each house in the county, when Sullivan broached this topic with a number of elected officials and City staffs, the discussions fell apart over everyone wanting a portion of the resulting revenue.

It was discussed that some of these ideas should be dropped, because it is more important to spend the consultants time research those items the County could possibly do. On page 5, it was suggested to wipe out everything except the portion on the blue bag.

Page 6 - Sullivan felt a problem with grass clippings in the rural area is that residents take their yard waste down to a vacant lot and dump it. Maybe the cities would accept it from township residents as long as the city did not have to collect it.

Page 7 - In rural areas, it was discussed that it might be a good idea to have a drop off service for recyclable. Someone mentioned if a hauler is going to service an area, it would be a good idea if the hauler would have to serve the entire area. Staff stated to force this type of service might require a franchising system for the collection of (residential) solid waste.

Page 8 - It was stated the committee should not spend a lot of money on the idea of mixing recycling and waste in processing plants, because it is not feasible. It was suggested to drop the last one. Staff asked about the next to last one, MRF. It was stated this could only be done on a regional basis.

Page 9 - Last one can be dropped as not being practical for us.

Staff passed out a survey the consultant would like to have the members send back to them, by March 6th.

TOURNMENT

Motion by Skrzeczkoski to adjourn at 9:05 P.M. Motion carried.

Meeting adjourned.

Charlevoix County Planning Commission

COUNTY BUILDING
CHARLEVOIX, MICHIGAN 49720

TELEPHONE 616 547-7234

SOLID WASTE COMMITTEE MARCH 23, 1998 MINUTES

CALL TO ORDER.

Meeting was called to order at 7:07, by Vice-Chair Nancy Ferguson.

Members present: Ferguson, Kurtz, Richardson, Skrzeczkoski, Rankl, Hass, Malpass, Strahl, Patrick, and Smith.

Members absent: Frykberg (excused), Lindberg (excused), Johnson (excused), and Pizzurro (excused).

Others present: Larry Levensgood, Tom Wieland, PNR, Michelle Biddick, Nate Jason, Jim Frey, Cathy Semer, Kerry Sandford.

APPROVAL OF MINUTES.

Motion by Skrzeczkoski, supported by Richardson, to approve the minutes of the previous meeting, as presented. Motion carried.

Unscheduled Public Comment.

Michelle Biddick spoke for Watch, and explained that her organization is an all volunteer group, and has asked her to request that another agency, other than Waste Management, to do water testing of the wells at the landfill. Secondly, Watch would like to stress recycling should be addressed during this review of the expansion review. She felt nothing had been done in the past by Waste Management.

Ferguson stated she would like to talk briefly about the property agreements that Waste Management had sent to some of the members of the Committee, and she felt this was not a good thing to do, because it might appear that these members might appear to be biased. She stated on page 3 of the agreement, which states if the property owner signs the agreement, he/she cannot take any action, or object to any approvals Waste Management might apply for.

Ferguson asked if any member might want to speak of the issue. Richardson stated as one of the neighbors that received the letter, he did not consider it a proper offer, and felt it was worthless. He stated that he was glad to see it in writing, because it clarifies how they expect to protect the neighboring property values, and it confirms his opinion of Waste Management.

One member stated he was not justifying the letter, but he stated he was not surprised because a lot of people at a County Board of Commissioners Meeting were concerned about their property values.

Richardson stated that one of the neighbors ^{not} on the list had stated that three of the adjacent property owners had signed it.

OLD BUSINESS.

DISCUSSION OF POLICY STATEMENTS.

Staff stated he had gone over the policy statements worked on at the last meeting. Some changes had been made since the last meeting. Strategy 1.5 on page 2 was reworded and moved.

Sullivan stated there was not a vote, but changes were made from the last discussion and can still be rewritten by this group.

Hass asked if we decided we want to have siting criteria. A question has arisen before as to whether or not the siting criteria should be included in the plan this time.

Discussion was held on the fact that the State rewrote the siting criteria in the last plan after it had been adopted by the County.

Ferguson stated that at the previous meeting, the discussion went with the Committee feeling that we need siting criteria, in case another facility wants to locate here.

Richardson asked Hass if he was saying we did not need siting criteria.

Hass stated he was not ready to say that, but with USA owning all of the landfills in this area, there is ample landfill space out there. He said he was not speaking to the landfill expansion.

Richardson stated the criteria as it stands right now would prevent them from going east, north, or any further to the west toward Nowland Lake. He stated they are using the siting criteria to decide how far they can expand. They are not going to the point where it drops off into a wetland, because they end up within 2000 feet of the lake. We expected it to go to the east, but it can't because it gets too close to Saunders' and Kurtz's residences.

Ralph Richardson stated the siting criteria are very strict and cannot say there will be no more landfills in the County.

It was asked what would happen if there is a need for Type III landfill.

Ferguson stated it seems as though all of the Type III's are closing and the materials are being sent to Type II Landfills.

Malpass stated that if the Cedar Ridge Landfill is closed, they would have to open another one.

Richardson stated that two landfills would have to close, Cedar Ridge and the one in Crawford County before another one would be needed in this part of the state.

Malpass stated East Jordan Iron Works would be very reluctant to ship to landfills other than Cedar Ridge, due to the liability issue.

Richardson stated Malpass should come out to his place and look at the landfill. He stated he could see all of the material East Jordan Iron Works sends to it, as well as the garbage through it. He stated in the past it was thought that the landfill would never expand beyond the 40 acres because there was not enough cover, but now is stockpiled on the 10 acres and on the 12 acres, and they are not using it. The landfill is using the East Jordan Iron Works material for cover. Richardson stated that the crew goes home at 4:30 p.m., but the landfill is open until 5 p.m., and he suggested you figure out why. Six inches a day of East Jordan Iron Works material goes on, 2 ½ ft a week and 130 feet in a year. Richardson stated they have not used that much cover ever. He stated he does not understand why if the East Jordan Iron Works material is good for road base because water runs right through it, why would it make good cover?

Malpass stated he believes Richardson is confusing slag with sands that have the heavy clays in it. There are two different materials there. The one that is used for cover is sand that has heavy clay content. They use slag for the construction.

Richardson stated that the sands have been approved for cover, but there is not 6 inches of cover.

Malpass stated he does not know about that.

Richardson stated that they engineered a monitoring well right in the roadway, and if they do not know where the roadway is, how do they know how high or how wide the landfill is.

A suggestion was made that we simply red flag the section on siting criteria, in Section 1.5, and when we get to that point can make a decision on it.

Hass disagreed because back in the old plan we allowed for the siting of another landfill in the County if the need arose. In order to do that, we had to have siting criteria in the Plan.

Richardson stated that if he looks at it without siting criteria, that opens up any 40-acre piece for a landfill.

Richardson stated that if the Planning Commission decides this request does not meet the requirements of the Plan, and the DEQ agrees, then Hass's statement doesn't meet anything.

It was decided to discuss this issue at a future time.

Comments were invited on the revised policy statements.

It was stated that it seemed to address all of the issues mentioned at the last meeting.

Ferguson stated she was very concerned with enforcement, as it was not done on the last plan.

Sullivan stated it is on the agenda, but felt it would probably not be resolved at this meeting.

Number 3.4, located on page 3-4, Ferguson asked if the word "required" was replaced with encouraged, concerning berms, etc.

It was stated that in the Plan we might not be able to require it, but in a Host Agreement, we could require it.

It was also stated that we could require berm, plantings, etc., and leave it to enforcement to make sure it is done.

It was also stated that if it is required in a Host Agreement, you need to put in standards for the berms, plantings, etc.

One member stated that the neighbors are not protected at all at the present time, and it looks awful.

Richardson stated that tonight when he left home, there are two large yellow machines sitting on top of a hill, which would not have to be there. They could do a lot to alleviate some of the concerns of the neighbors on the visual impact.

It was agreed to put the word encouraged in at this point, and add the requirement in the future host agreements.

Under 3.5, it was asked if there are still dumps in the County. Sullivan stated that this could be removed, because most of these have been closed. This was a carryover from the past plan.

The only dumps that might still be classified as dumps would be owned by the Road Commission. Sullivan stated he would check into that and see what goes into these dumps.

Richardson stated the Road Commission dumps were discussed last time, and the Commission felt they did not have to comply.

Sullivan stated that regarding enforcement, the first step and desire is to insure compliance, and failing that, the second step would be fines and penalties, and the third would be to force closure.

A question was asked how do we enforce these things.

Sullivan stated it would be up to the County Board and the DNR/DEQ to enforce the Plan. He stated that the County might need an ordinance to enforce the Plan. Sullivan stated that as long as we are not requiring stricter restrictions than the DNR, they should be enforceable using the State Laws.

Richardson stated that if the Committee were going to argue over every word, it would take forever.

It was agreed that the changes Staff has made for tonight's meeting are acceptable, except the enforcement issue still has to be addressed.

Staff stated he was not looking for a motion or definitive action at this point, we can still be flexible and finalize this at a future point in time.

One member had a question on page 2, rather than have 4 or 5 different percentages, why not have just one percentage that says the goal is a total reduction of X by these means, rather than listing the different percentages.

Staff stated these percentages are based upon the State's goals and policy statements. It is certainly recognizable that some of these are easier to achieve, going with an overall percentage could certainly be a good possibility. Staff stated he could go through some waste stream assessments that have been done in this area and come back with what percentages are what, and based upon that come up with a number that might be achievable or probable.

It was stated that the material given to us by the consultants are giving us basic information as to how much we can expect to reduce waste and increase recycling by doing different programs, which will affect those percentages.

Staff will work on that issue and bring more back at a future meeting.

NEW BUSINESS.

Merger Impacts.

Ferguson stated the next issue to be discussed is the merger between USA Waste and Waste Management.

Sullivan stated the need for competition in the waste industry has been discussed for many years, but the County cannot force this competition. Based upon the planned amalgamation of the USA Waste and Waste Management, the bulk of the landfills in this area will be under one management. Staff's concern is what might happen to the waste situation in northern Michigan based upon the loss of competition at the landfills. Some people in the solid waste collection business are concerned that they might be squeezed out of the business by the landfill owner charging higher rates for the waste haulers. They (USA & Waste Management) might get out of the hauling business and could just crank their rates up even though they are no longer in the hauling business. Sullivan provided a press release giving some cost savings with the merger of the two companies. The timing of the merger is sometime in the Fall. Staff has contacted Representative Bart Stupak on the anti-trust issue, and hopes his office will research how it will affect the waste collection, and disposal, in this area. Whatever company owns the majority of landfills controls the waste flow.

Malpass stated that more controls on business is not always a positive thing.

It was mentioned that there are good regulations and some bad ones. Malpass stated consumers end up paying for these regulations.

Jamie Hass stated that from the point of a hauler in the industry, there is no doubt in his mind that the anti-trust laws should require the company to dispose of one or more landfills they have acquired, as they have locked up essentially half the State. This would allow at least two places to shop for prices. If the anti-trust people don't do that, we are all at the mercy of how fair USA and Waste Management are. It is a potential that once they control the area, there is no one to make sure they are charging all the haulers the same. He stated that until this announcement came out, he was comfortable with the fact that if Waste Management did not treat him fairly, he could go to another landfill and work out an agreeable rate. That possibility has gone out of the window. If the anti-trust people do not control this, he felt this would be the worst scenario facing the citizens of the County.

One member mentioned that ten years ago, when Waste Management came in, they told the competitors that they would be putting them out of business. They could play hardball.

Charlevoix County Planning Department

COUNTY BUILDING
301 STATE STREET
CHARLEVOIX, MICHIGAN 49720

TELEPHONE 231 547-7234

FAX 231 547-7217

October 3, 2000

Stan Idziak
Waste Management Division
MDEQ
PO Box 30473
Lansing, MI 48909-7973

Dear Mr. Idziak;

I have sent out requests to all companies operating landfills to which Charlevoix County might realistically expect to ship waste to as well as the counties in which they are located. We have included copies of those letters as well as the responses we have received in the copy of the solid waste management plan we sent to you for review.

Per your letter dated August 29, 2000, we have requested information from each company such that we could fill in the table which is attached. We have received responses from all companies with the exception of Waste Management. We understand the Montmorency/Oscoda/Alpena Landfill is not willing to guarantee landfill capacity to counties other than the three which form the authority. They have indicated a willingness to accept waste at the present time.

Based upon the attached information as well as the letter from the Charlevoix County Board of Commissioners, we are requesting that our plan be approved by the Director. We shall forward information from Waste Management at such time as we receive their response. We like to move ahead with approval of our solid waste plan if possible without the information from Waste Management. Should you have any problem approving the plan based upon the information submitted to this date, please contact me and we will do everything in our power to resolve them.

Sincerely,


Larry Sullivan
Planning Director

enclosures: 2 pages

CAPACITY CERTIFICATIONS

Every county with less than ten years of capacity identified in their Plan is required to annual prepare and submit to the DEQ an analysis and certification of solid waste disposal capacity validly available to the county. This certification is required to be prepared and approved by the County Board of Commissioners.

✓
_____ Charlevoix County has more than ten years capacity identified in this Plan and an annual certification process is not included in this Plan.

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

The table below identifies landfill disposal areas, their expected life, historical usage rates, and supporting analysis that demonstrates that the County will have more than ten years of disposal capacity for the duration of the ten year planning period. These facilities have all been included in the Plan and appropriate export arrangements made. Letters have been recieved from each of these facilities indicating that they can and will accept waste from Charlevoix County, thus assuring Charlevoix County in excess of 10 years of capacity.

LANDFILL CAPACITY

Identified Disposal Area Cap. Site Name (County Name)	Available Air Space (Gate CY 1-1-2000)	Gate CY Delivered 1999	Landfill Life (in years) Based on 1999 Delivery Rates	Landfill Life (in years) Based on 1999 Delivery Rates w/2% Growth
Cedar Ridge (Charlevoix)				
Harlan's (Manistee)	12,284,000	432,000	41	36
Glen's (Leelanau)				
CES Waters (Crawford)				
Whitefeather (Bay)	7,272,285	190,968	38	28
Black Run (Presque Isle)	6,031,852	114,137	53	36
Northern Oaks (Clare)				
Mont./Oscoda (Montmorency)	3,765,000	122,395	31	30

The calculations of the landfill life assumes that 20% of available air space is lost to cover and liner components and that gate cubic yards to in-place compaction is 50%. Available air space and delivery rates are based on information provided by the landfills directly to the Charlevoix County Planning Department.

ROGER D. FRYE, CHAIRMAN
DENNIS KAUFFMAN, VICE-CHAIRMAN
RAYMOND WEGMEYER, SEC. /TREAS
RICHARD E. HERMANSON
MICHAEL HUNT
M. MULLANEY
SANDY CUNNINGHAM, EXEC. SECRETARY



P. O. Box 789, Atlanta, MI 49709

(517) 785-2066 Phone
(517) 785-4183 Fax

September 19, 2000

Mr. Larry Sullivan, Planning Director
Charlevoix County Planning Department
301 State Street
Charlevoix, MI 49720

Dear Mr. Sullivan:

In response to your September 14th correspondence, please be advised that it is the intention of the Montmorency-Oscoda-Alpena Solid Waste Management Authority Board to accept waste generated in the County's as listed with export authorization in the Montmorency-Oscoda Solid Waste Management Plan, which includes Charlevoix County.

However, on 6/16/00, the Board directed that all County's with export authorization be advised that we are not in a position to guarantee disposal capacity to any County with the exception of Montmorency, Oscoda and Alpena County's, as Member-County's of the Montmorency-Oscoda-Alpena Solid Waste Management Authority Board.

We will continue to accept refuse from the County's with export authorization, however, we must reserve the right to limit the quantity accepted.

In addition, please find enclosed the completed table identifying our anticipated life expectancy, as requested.

If you require additional information, please contact this office.

Sincerely,

Sandy Cunningham
Executive Secretary

cc: Landfill Authority Board

The table below identifies landfill disposal areas, their expected life, historical usage rates, and supporting analysis that demonstrates that the County will have more than ten years of disposal capacity for the duration of the ten year planning period. These facilities have all been included in the Plan and appropriate export arrangements made. Attached are letters from both the counties the facilities are located in as well as from the facility itself

Identified Disposal Area Cap. Site Name (County Name)	Available Air Space (Gate CY 1-1-2000)	Gate CY Delivered 1999	Landfill Life (in years) Based on 1999 Delivery Rates	Landfill Life (in years) Based on 1999 Delivery Rates w/2% Growth
Cedar Ridge (Charlevoix)				
Harlan's (Manistee)				
Glen's (Leelanau)				
CES Waters (Crawford)				
Whitefeather Bay)				
Elk Run (Presque Isle)				
Northern Oaks (Clare)				
Mont./Oscoda/Al (Montmorency)	3,765,000	122,395	31	30

The calculations of the landfill life assumes that 20% of available air space is lost to cover and liner components and that gate cubic yards to in-place compaction is 50%. Available air space and delivery rates are based on information provided by the landfills directly to the Charlevoix County Planning Department.

**MANISTEE COUNTY
LANDFILL**

3890 CAMP ROAD
MANISTEE MI 49660
231.723.4940
1.800.968.4143
231.723.4105 FAX

Fax

To: LARRY SULLIVAN From: TODD HELLING

Fax: _____ Pages: _____

Phone: _____ Date: _____

Re: _____ CC: _____

- Urgent For Review Please Comment Please Reply Please Recycle

● Comments:

Charlevoix County Planning Department

COUNTY BUILDING

301 STATE STREET

CHARLEVOIX, MICHIGAN 49720

TELEPHONE 231 547-7234

FAX 231 547-7217

Memorandum

To: Todd Harlan
 From: Larry Sullivan, County Planning Director *L.S.*
 Re: Landfill Capacity available to Charlevoix County
 Date: September 14, 2000

Attached is a table to be included in the Charlevoix County Solid Waste Management Plan. Your facilities have been included in the Charlevoix County Solid Waste Management Plan based upon your willingness and ability to provide space for disposal of a portion or all of the waste generated in Charlevoix County for the next 10 years. The Michigan Department of Environmental Quality has requested that we provide this information in a table form. Rather than my attempting to include the numbers into the table the DEQ has provided, I felt it would be more appropriate that your company provide the figures for your facility(ies). I have included a copy of a sample that was provided to our office by the DEQ. This should be helpful in responding to this request.

Any assumptions used in developing the estimates for your facility should be included with your response. We will forward those assumptions on the Michigan Department of Environmental Quality along with the completed table.

Your promptness in completing your portion and returning it to us would be greatly appreciated. You may fax your reply to the Charlevoix County Planning Department at 231-547-7217. Clearly mark your response for the attention of the Planning Department.

FAX TRANSMITTAL MEMO

TO: <u>Todd Harlan</u>	NUMBER OF PAGES: <u>3</u>
DEPT: _____	FAX: <u>231 723 4105</u>
FROM: <u>Larry Sullivan</u>	NOTE: _____
PHONE: <u>231-547-7234</u>	
FAX #: <u>231-547-7217</u>	

The table below identifies landfill disposal areas, their expected life, historical usage rates, and supporting analysis that demonstrates that the County will have more than ten years of disposal capacity for the duration of the ten year planning period. These facilities have all been included in the Plan and appropriate export arrangements made.

Identified Disposal Area Cap. Site Name (County Name)	Available Air Space (Gate CY 1-1-2000)	Gate CY Delivered 1999	Landfill Life (in years) Based on 1999 Delivery Rates	Landfill Life (in years) Based on 1999 Delivery Rates w/2% Growth
Cedar Ridge (Charlevoix)				
Harlan's (Manistee)		432,000	11 years	36 years
Glen's (Leelanau)				
CES Waters (Crawford)				
Whitefeather Bay)				
Elk Run (Presque Isle)				
Northern Oaks (Clare)				
Mont./Oscoda/Al (Montmorency)				

The calculations of the landfill life assumes that 20% of available air space is lost to cover and liner components and that gate cubic yards to in-place compaction is 50%. Available air space and delivery rates are based on information provided by the landfills directly to the Charlevoix County Planning Department.

LIFE AS OF 1/1/2000

TABLE II-6 TOTAL QUANTITY OF SOLID WASTE NEEDING DISPOSAL:

Sector	1998 Tons Disposed	2003 Tons Disposed	2008 Tons Disposed
Residential	11,282	11,887	10,209
Commercial/Industrial	21,383	21,241	18,821
Special *	136,600	136,600	136,600
TOTAL ANNUAL TONS	169,265	169,728	165,630

* Sand, slag and other debris from East Jordan Iron Works and Southdown Kiln Dust.

II-2 SOLID WASTE DISPOSAL AREAS

Inventory and description of all solid waste disposal areas within the County or to be utilized by the County to meet its disposal needs for the planning period.

- Beaver Island Transfer Station
- Boyne Valley Township Transfer Station
- East Jordan Transfer Station
- Melrose Township Transfer Station
- Top Rank Transfer Station
- Cedar Ridge Type II Landfill*
- Cedar Ridge Transfer Station
- Glen's Landfill (Leelanau County)
- CES Waters Landfill (Crawford County)
- Elk Run Landfill (Presque Isle County)
- Montmorency - Oscoda Landfill (Montmorency County)
- Northern Oaks (Clare County)
- Southdown Cement Type III Monofil.
- Whitefeather Landfill (Bay County)
- Emmet County Transfer Station

* Scheduled to close during the early years of this Plan. (Upon the permitted 40 acres being filled to capacity.)

Descriptions of these facilities follows:

CARLETON FARMS LANDFILL
P.O. Box 634
New Boston, Michigan 48164-0634
(734) 654-1158 ph
(734) 654-7231 fax



Fax

To: Larry Sullivan

From: Brian J. Ezyk **Date:** September 29, 2000

Fax: (231) 547-7217 **Pages:** 3 including cover

Re: Landfill Capacity (Elk Run and Whitefeather)

Urgent For Review Please Comment Please Reply For Your Use

● **Comments:**

Larry,

Attached, please find the completed table per your request of September 14, 2000. The original will follow via US Mail. Please give me a call, if you have any questions.

Thank-you,



September 29, 2000

Larry Sullivan
 County Planning Director
 Charlevoix County Planning Department
 County Building
 301 State Street
 Charlevoix, Michigan 49720

Subject: Landfill Capacity Available to Charlevoix County
 Elk Run Sanitary Landfill and Whitefeather Landfill
 Presque Isle County and Bay County, Michigan

Dear Mr. Sullivan:

Pursuant to the request in your September 14, 2000 memorandum and to our previous commitment to accept up to 100 percent of the daily and annual volume generated within Charlevoix County for the 10-yr planning period, Republic Services has prepared the following airspace summaries for our Elk Run Sanitary Landfill and Whitefeather Landfill located in Presque Isle and Bay Counties, respectively.

As stated in your memorandum, the calculations supporting the data presented below were performed assuming that the gate cubic yards to in-place compaction ratio is 50%. Also, as stated in your memorandum, the 1999 gate rate has been used for calculating site life. For the purposes of this summary, Republic has assumed that available airspace is the permitted capacity of the site adjusted for the compaction factor of 50%, i.e. the permitted capacity is doubled to account for compaction of waste.

SITE	AVAILABLE GATE AIRSPACE ⁽¹⁾ (1/1/2000) (YD ³)	GATE CYD ⁽²⁾ 1999	LANDFILL LIFE (1999 RATE) (YEARS)	LANDFILL LIFE (1999 RATE + 2% YEARLY)
Elk Run Sanitary Landfill	6,031,852	114,137	53	36
Whitefeather Landfill	7,272,285	190,968	38	28

Notes:

- (1) Available gate airspace assumes that a compaction factor of 50% is applied to the remaining permitted volume of the landfill as of 1/1/2000.
- (2) The 1999 gate acceptance was calculated by assuming that the volume consumed as measured by gate tracking or topographic analysis was compacted 50%.

Current and future gate acceptance rates may differ from the 1999 values. Likewise, the actual compaction rate computed for the individual landfills may differ from the

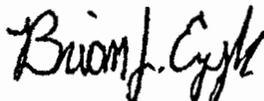
Larry Sullivan
September 29, 2000
Page 2 of 2

50% assumption. The data presented herein has been prepared according to the assumptions stated in your memorandum.

If you would like additional information about volumes or capacity at Elk Run Sanitary or Whitefeather Landfill, please contact the undersigned.

Sincerely,

REPUBLIC SERVICES, INC.



Brian J. Ezyk
Regional Engineer

Cc: Matt Neely, Republic
Stephanie Glysson, Republic

Charlevoix County Planning Department
 COUNTY BUILDING
 CHARLEVOIX, MICHIGAN 49720
 TELEPHONE 616 547-7234

Memorandum

To: Todd Harlan
 From: Larry Sullivan, County Planning Director
 Re: Landfill Capacity available to Charlevoix County
 Date: October 3, 2000

Attached is a table to be included in the Charlevoix County Solid Waste Management Plan. In your fax back to me dated September 28, 2000 you did not include the total amount of available airspace. Based upon the fact that your facility has 41 years of capacity based upon 1999 delivery rates and the amount of waste delivered in 1999, was 432,000 cubic yards, I am presuming that your facility has 17,712,000 yards of available air space. Should your figures not agree with this please contact me so we can resolve our figures.

I can be reached at the number listed above.

ARRA:
 SORRY I DID NOT INCLUDE THE
 AIR SPACE #. IT IS 12,284,000 yds
 AS OF 12/31/99

1620

Identified Disposal Area Cap. Site Name (County Name)	Available Air Space (Gate CY 1-1-2000)	Gate CY Delivered 1999	Landfill Life (in years) Based on 1999 Delivery Rates	Landfill Life (in years) Based on 1999 Delivery Rates w/2% Growth
Cedar Ridge (Charlevoix)				
Harlan's (Manistee)	17,712,000	432,000	41	36
Glen's (Leelanau)				
CES Waters (Crawford)				
Whitefeather (Bay)	7,272,285	190,968	38	28
Elk Ruh (Presque Isle)	6,031,852	114,137	53	36
Northern Oaks (Clare)				
Mont./Oscoda (Montmorency)	3,765,000	122,395	31	30

The calculations of the landfill life assumes that 20% of available air space is lost to cover and liner components and that gate cubic yards to in-place compaction is 50%. Available air space and delivery rates are based on information provided by the landfills directly to the Charlevoix County Planning Department.

Charlevoix County Planning Department

COUNTY BUILDING
301 STATE STREET
CHARLEVOIX, MICHIGAN 49720

TELEPHONE 231 547-7234
FAX 231 547-7217

SEP 21 2000

SIS Manager

September 20, 2000

Stan Idziak
Solid Waste Management Unit
Waste Management Division
Department of Environmental Quality
P.O. Box 30241
Lansing, MI 48909-7741

Dear Mr. Idziak:

Please find enclosed the following items, to be included as part of the Charlevoix County Solid Waste Plan:

- Copies of approvals by every political unit in Charlevoix County.
- Maps of the mainland and Beaver Island portions of the County.
- Index of map layers and colors of each.
- Letter from Chairman Phil Johnson, approving the Solid Waste Plan with the modifications suggested by the DEQ.
- Resolution of the Charlevoix County Board approving the Plan as amended by the modifications suggested by the DEQ.

The table showing capacity certification that is needed, will be faxed down to you, as soon as the landfills provide the information suitable for including in the table.

If you have any questions concerning the enclosed, please feel free to contact me, at the phone number above.

Sincerely,


Larry Sullivan
Director of Planning

LS/baf

Charlevoix County Solid Waste Planning Committee
May 15, 2000

Minutes

Meeting called to order at 7:10 p.m., by Chairman Johnson.

Members present: Richardson, Skrzeczkoski, Johnson, Patrick, Smith, Strahl, Frykberg, Ferguson, and Kurtz.

Members absent: Rankl (excused), Lindberg (excused), Pizzurro, Laney, and Hass.

Minutes needing correction with wording from Commercial to Agricultural, in the paragraph beginning "Discussion took place.....". Motion made to approve the minutes as corrected.

The members were invited to make comments, and to state if they have problems with the Plan as mailed to them.

Richardson fine with the Plan.

Dan has two pages he has concerns on. First on page 57 – second line should be changed to read: "management needs for the solid waste generated within Charlevoix County for the next ten years.", dropping the words "five years and, if possible". The next was on page 98, under Disposal Areas, 4th paragraph, second sentence – should read "Private enterprise for monofills located within the County, provided the monofill is owned and operated by the company generating the waste disposed of in the monofill."

Ferguson had a question on page 92, pertaining to zoning. She asked if this is a State law. Sullivan stated he had spoken with the DEQ, and they had stated if it is allowed by right, it would be acceptable. It was suggested the wording be changed to: "Zoning – Landfills shall be located in zoning districts in which they are permitted as a use by right, or in any area zoned to allow agricultural, commercial, or industrial uses."

Sullivan stated the only Type II Landfill will be owned by the County, and the only Type III to be operated by private owners will be monofill.

Johnson is happy with it.

Patrick is happy with it.

Smith is generally happy.

Strahl stated that on page 38, words are transposed, and Sullivan will correct them.

Frykberg happy with Plan.

Ferguson asked if Sullivan is still planning to post the enforcement numbers to call when problems arise in the recycling program. He stated he will do that.

Motion by Dan Skrzeczkoski, supported by Randy Frykberg, to approve the Solid Waste Plan, as presented. Motion carried.

Sullivan stated there are still some minor changes and additions to the plan, which will be provided to the Committee, but the content will not be changed.

Next Monday night, the Planning Commission will act on it, then the County Board will act on it, and it will be sent out to townships, cities, and the Village of Boyne Falls.

Johnson stated the Plan needs to be sent to the Board by Friday, for action on the next Wednesday. He also thanked the members, on behalf of the Board, for the efforts they put in to get the plan finished.

Motion by Skrzeczkoski to adjourn at 7:38 p.m. Motion supported by Smith. Motion carried.

COUNTY OF CHARLEVOIX BOARD OF COMMISSIONERS

301 STATE ST. / COUNTY BUILDING
CHARLEVOIX, MICHIGAN 49720

Telephone (616) 547-7200



A MICHIGAN HISTORICAL SITE

September 13, 2000

Stan Idziak
Solid Waste Management Unit
Waste Management Division
Department of Environmental Quality
P.O. Box 30241
Lansing, MI 48909-7741

Dear Mr. Idziak:

At our meeting held on September 13, 2000, the Charlevoix County Board of Commissioners reviewed your letter, dated August 29, 2000. As a result of this review, we concur with the changes recommended in that letter of August 29, 2000. We request the Department of Environmental Quality to approve the Charlevoix County Solid Waste Management Plan with these modifications.

In addition to the modifications included in your letter, we are enclosing maps depicting the Michigan Resource Inventory System information dated 8-25-89, and Capacity Certification information in a format consistent with the sample you provided.

We have also included a copy of the action taken by each unit of government within Charlevoix County. The unanimous approval of our County Solid Waste Plan is the first time in the history of solid waste planning in this County. We believe this demonstrates the strong support for this plan, and we encourage the Department of Environmental Quality to approve the Plan, as well.

Should you have any questions, feel free to contact Larry Sullivan, at (231) 547-7234.

Sincerely,

Phillip Johnson, Chairman
Charlevoix County Board of Commissioners

SOLID WASTE PLAN RESOLUTION

Whereas: Charlevoix County appointed a Planning Commission, under PA282, of 1945, for the purpose of developing long range plans to guide the growth and development of Charlevoix County, and

Whereas: the Charlevoix County Planning Commission has been appointed the Designated Planning Agency, and a Solid Waste Planning Committee has been appointed to assist with the development of the Solid Waste Plan, pursuant to PA 451, of 1994, and

Whereas: the Solid Waste Committee has developed a draft solid waste plan, and a public hearing has been duly noticed in accord with PA 282, and 451, and following the public hearing, the plan has been approved by the Solid Waste Planning Committee, following changes being made based upon comments received at said public hearing, and

Whereas: the Solid Waste Committee recommended adoption of this Plan by the Planning Commission and the County Board of Commissioners;

Now, therefore, be it resolved: the Charlevoix County Planning Commission hereby adopts this Solid Waste Management Plan, as a component of the Charlevoix County Comprehensive Plan, and recommends this plan also be adopted by the County Board of Commissioners;

Be it further resolved: following adoption of this plan, no work shall be initiated on any project involving the expenditure of public funds for the acquisition of land, erection of structures, extension construction, or improvement of any physical facility pertaining to solid waste by any county agency until such time as the Planning Commission has had sufficient time to review and comment upon said expenditures, pursuant to PA 282, of 1945, as amended.

Motion to adopt resolution made by Ralph Richardson, supported by Sandra Stanley.

Roll Call Vote:	Yes	No	Abstain	Absent
Jamie Hass				X
Dennis Jason				X
Larry Levengood	X			
Curt Petrak				X
Ralph Richardson	X			
Sandra Stanley	X			
Tom Wieland.	X			

I certify that the above accurately reflects the actions of the Charlevoix County Planning Commission, at their meeting held on May 22, 2000.

Ralph Richardson
Ralph Richardson, Secretary

RR/baf

May 24, 2000

SOLID WASTE PLAN

R E S O L U T I O N

WHEREAS, the Solid Waste Committee has developed a draft solid waste plan and held a public hearing on it; and

WHEREAS, the Solid Waste Committee recommended adoption of this Plan by both the Planning Commission and the Charlevoix County Board of Commissioners; and

WHEREAS, the Planning Commission met in special session on May 22, 2000, and adopted the draft Solid Waste Plan as presented;

NOW THEREFORE BE IT RESOLVED, that the Charlevoix County Board of Commissioners upon the recommendations of the Solid Waste Committee and the Planning Commission, hereby adopt the Solid Waste Plan as presented.

Submitted by:

VICTOR PATRICK

CERTIFIED	
Jane E. Brannon, County Clerk	
<i>Cheryl D. Browne</i>	<i>7/12/00</i>
DEPUTY	DATE

#00-027

September 13, 2000

SOLID WASTE PLAN

R E S O L U T I O N

WHEREAS, the Charlevoix County Board of Commissioners has received a copy of a letter from the DEQ concerning changes to the Charlevoix County Solid Waste Plan; and

WHEREAS, the Board concurs with the changes recommended in your letter of August 29, 2000;

NOW THEREFORE BE IT RESOLVED, that the Charlevoix County Board of Commissioners request that the DEQ approve the Charlevoix County Solid Waste Management Plan with these modifications and authorizes the Chairman to sign a letter to this effect.

Submitted by:

Vic Patrick

CERTIFIED	
Jane E. Brannon, County Clerk	
<i>Cheryl D. Browne</i>	9/14/00
DEPUTY	DATE

00-047

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of BAY, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
BAY, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: CHRISTOPHER L. MONK

SECONDED BY: LARRY H. BERGMANN

YEAS: SIMMONS, CHIPMAN, BERGMANN, MONK

NAYS: NONE

Abstain: Moeschke

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF BAY.

ON: JUNE 8, 2000
Date

David L. Simmons
Township Clerk

DAVID L. SIMMONS

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Village of Boyne Falls, of Charlevoix County has had numerous opportunities to provide input into the development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the plan will accommodate the solid waste generated in the County well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Village of Boyne Falls, Charlevoix County, hereby goes on record as approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: Kevin Gaskowski

SECONDED BY: Bill Carson

YEAS: 4

NAYS: 0

I hereby attest that this is an official record of the actions of the VILLAGE OF BOYNE FALLS _____.

ON: 6-26-00

Date

Mailep Cousineau
Village Clerk

Please return one signed copy to Planning Dept.

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of Boyer Valley, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
Boyer Valley, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: Nancy Dunham

SECONDED BY: Susan Conklin

YEAS: - 4 -

NAYS: - 0 -

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF Boyer Valley.

ON: June 26, 2000
Date

Nancy Dunham
Township Clerk



City of Boyne City

319 N. Lake Street

Boyne City, Michigan 49712
www.boynecity.com

Phone 231-582-6597
Fax 231-582-6506

**CITY OF BOYNE CITY
COUNTY OF CHARLEVOIX**

Resolution No. 0013-2000

CHARLEVOIX COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, the City of Boyne City, Charlevoix County, has had numerous opportunities to provide input into the development of the County Solid Waste Management Plan; and

WHEREAS, the City of Boyne City has reviewed the plan and believes the plan will accommodate the solid waste generated in the County well into the future;

NOW, THEREFORE, BE IT RESOLVED that the City of Boyne City, Charlevoix County hereby goes on record as approving the Charlevoix County Solid Waste Management Plan.

ROLL CALL

Aye: Standen, Vondra, Grunch, Ruggles, Stackus.

Nay: None.

Abstain: None.

Absent: None.

RESOLUTION DECLARED ADOPTED.

Sue Hobbs

Sue Hobbs
Boyne City Clerk

I, Sue Hobbs, City Clerk of the City of Boyne City, County of Charlevoix and State of Michigan, hereby certify that the above is a true and complete copy of certain proceedings taken by the City of Boyne City at its regular meeting held Tuesday, June 27, 2000, and that said meeting was conducted and public notice of said meeting was given pursuant to and in full compliance with the Open Meetings Act 267 of the Public Acts of Michigan of 1976, and the minutes of said meeting were kept and will be or have been made available as required by said Act.

Sue Hobbs

Sue Hobbs Boyne City Clerk

June 29, 2000

Date

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of Chandler, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
Chandler, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: Myron Matz

SECONDED BY: Phyllis Penfold

YEAS: 5

NAYS: 0

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF Chandler.

ON: June 13, 2000

Date

Mary Peters
Township Clerk

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The City of Charlevoix, of Charlevoix County has
had numerous opportunities to provide input into the development
of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the City of Charlevoix,
Charlevoix County, hereby goes on record as approving the
Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: Campbell

SECONDED BY: Carlson

YEAS: Witthoeft, Carlson, Campbell and Bellows

NAYS: Chamberlain and Barnes

I hereby attest that this is an official record of the actions of
the CITY OF Charlevoix.

ON: July 3, 2000

Date

Bea Parton
Beatrice Parton City Clerk

Please return one signed copy to Planning Dept.

ct

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of Charlevoix, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
Charlevoix, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: Nancy Rajewski

SECONDED BY: Theda Williams

YEAS: Stroud, Rajewski, Martin, and Williams

NAYS: None

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF Charlevoix.

ON: June 12, 2000
Date

Carol Martin
Township Clerk

Please return 1 signed copy to the Planning Dept.

EVELINE TOWNSHIP

RESOLUTION 2000-6-13

**RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN**

WHEREAS, THE TOWNSHIP OF EVELINE, OF CHARLEVOIX COUNTY, HAS HAD
NUMEROUS OPPORTUNITIES TO PROVIDE INPUT INTO THE DEVELOPMENT OF THE
COUNTY SOLID WASTE MANAGEMENT PLAN; and

WHEREAS, WE HAVE REVIEWED THE PLAN; AND

WHEREAS, WE BELIEVE THE PLAN WILL ACCOMMODATE THE SOLID WASTE
GENERATED IN THE COUNTY WELL INTO THE FUTURE;

NOW, THEREFORE, BE IT RESOLVED, THAT THE TOWNSHIP OF EVELINE, CHARLEVOIX
COUNTY, HEREBY GOES ON RECORD AS APPROVING THE CHARLEVOIX COUNTY SOLID
WASTE MANAGEMENT PLAN.

MOTION MADE BY HAYDEN

SECOND BY BEISHLAG

**YEAS: BEISHLAG, HAYDEN, SHERMAN, SKRZECZKOSKI, WILLSON
NAYS: NONE**

**I HEREBY ATTEST THAT THIS IS AN OFFICIAL RECORD OF THE ACTIONS OF
THE TOWNSHIP OF EVELINE**

ON: JUNE 13, 2000



**DONALD S. HAYDEN
TOWNSHIP CLERK**

City of East Jordan

201 Main Street • P.O. Box 499
East Jordan, Michigan 49727-0499

City Hall

Tel: (616) 536-3381
Fax: (616) 536-3383



Resolution # 115/2000

**Offered for Adoption by Gee
Supported by Hoffman**

Resolution Approving the Charlevoix County Solid Waste Management Plan

WHEREAS, the City of East Jordan has had numerous opportunities to provide input into the development of the County Solid Waste Management Plan, and

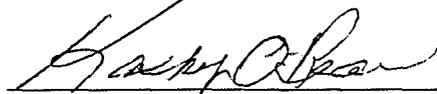
WHEREAS, the City Commission has reviewed the plan, and believes the plan will accommodate the solid waste generated in the County well in to the future.

THEREFORE BE IT RESOLVED the City of East Jordan hereby approves the Charlevoix County Solid Waste Management Plan.

Roll Call Vote:

Ayes: Gee, Cihak, Hoffman, Williams, Hammond & Mayor Klooster
Nays: None

I hereby certify that the forgoing is a true and complete copy of a resolution adopted by the East Jordan City Commission at a Regular Meeting, held Tuesday, June 20, 2000.



Kathy O'Rear, City Clerk



Date

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

RESOLUTION NO. 2000 7-10

WHEREAS, The Township of Evangeline, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
Evangeline, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: Adams

SECONDED BY: Shields

YEAS: Adams, Lory, Shields.

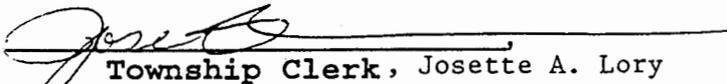
NAYS: None.

ABSTAIN: Howell.

ABSENT: Cortright

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF Evangeline.

ON: July 10, 2000
Date


Township Clerk, Josette A. Lory

Please return 1 signed copy to Planning Dept.

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of Hudson, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
Hudson, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: Doris Glazier

SECONDED BY: Terry Erber

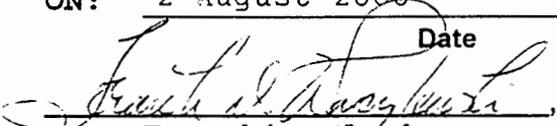
YEAS: Doris Glazier, Sharon Jepsen, Terry Erber and Frank D. Wasylewski

NAYS: _____
ABSENT: Caroline Kobylczak.

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF HUDSON.

ON: 2 August 2000

Date



Township Clerk
Frank D. Wasylewski

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of HAYES, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
HAYES, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: ROBBIN KRAFT

SECONDED BY: TIMOTHY BOYKO

YEAS: DOUGLAS KUEBLER, FREDERICK PARSONS, TIMOTHY BOYKO, ROBBIN KRAFT,
ETHEL KNEPP (YEA)

NAYS: NONE

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF HAYES.

ON: JUNE 12, 2000

Date

Ethel R Knapp
Township Clerk

Please return 1 signed copy to the Planning Dept.

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of MARION, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
MARION, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: Joanne Jones

SECONDED BY: Wilson Ross

YEAS: Joanne Jones, Wilson Ross, Jerry Dohm

NAYS: Mitch Cunningham, Sonja Martin

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF MARION.

ON: JUNE 20, 2000
Date

Wilson Ross
Township Clerk

Please return 1 signed copy to the Planning Dept.

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of Melrose, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
Melrose, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: Al Deneau, Supervisor

SECONDED BY: Al Reeves, Trustee

YEAS: 5

NAYS: _____

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF Melrose.

ON: June 13th, 2000
Date

Annette Longcore,
Township Clerk

Please return 1 signed copy to the Planning Dept.

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of Norwood, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
Norwood, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: Carey

SECONDED BY: Parsons

YEAS: 4 yeas

NAYS: Wayne Boss

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF Norwood.

ON: July 17, 2000
Date

Donald Paul
Township Clerk

Please return 1 signed copy to the Planning Dept.

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of St. James, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
St. James, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: James Wojan

SECONDED BY: Gary Damstra

YEAS: 5

NAYS: -0-

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF St. James.

ON: 6/7/00
Date

Jean Palmer
Township Clerk

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of SOUTH ARM, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
SOUTH ARM, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: L. Malpass

SECONDED BY: N. Olstrom

YEAS: L. Malpass M. Carey, J. Smith, N. Olstrom

NAYS: R. Christensen

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF SOUTH ARM.

ON: July 12, 2000

Date

Joanne B. Smith,
Township Clerk

Please return 1 signed copy to the Planning Dept.

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of WILSON, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
WILSON, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: RON REINHARDT

SECONDED BY: CAROL CLAVIER

4 YEAS: TODD SORENSON, CAROL CLAVIER, KERRI REINHARDT, RON REINHARDT

0 NAYS: _____

1 ABSTENSION: JON JASINSKI

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF WILSON.

ON: JUNE 6, 2000
Date

Carol Clavier,
Township Clerk

RESOLUTION APPROVING THE CHARLEVOIX COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, The Township of PEAINE, of Charlevoix
County has had numerous opportunities to provide input into the
development of the County Solid Waste Management Plan; and

WHEREAS, we have reviewed the plan; and whereas, we believe the
plan will accommodate the solid waste generated in the County
well into the future;

NOW, THEREFORE, BE IT RESOLVED, that the Township of
PEAINE, Charlevoix County, hereby goes on record as
approving the Charlevoix County Solid Waste Management Plan.

MOTION MADE BY: FRANK BLATT

SECONDED BY: PAUL NELSON

YEAS: NELSON, M^CCAFFERTY, WORKS, BLATT

NAYS: NONE

I hereby attest that this is an official record of the actions of
the TOWNSHIP OF PEAINE.

ON: JUNE 14, 2000
Date

Colleen In Martin
Township Clerk - DEPUTY