



MORRIS COUNTY Resource Recovery Report

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County Plans Curbside Recycling Services

On December 13, the Board of Chosen Freeholders gave the Solid Waste Staff conceptual approval for a plan for County sponsored curbside collection service for recyclables.

The proposed services would begin as a pilot program in one or more municipalities. The pilot program would involve curbside collection of newspaper with a collection vehicle purchased and maintained by the County. The collections would be conducted by current and former clients of the Morris County Occupational Training Center (OTC).

The service could be offered to municipalities without department of public works (DPW) collection of solid waste. These municipalities with either municipal or homeowner contracted waste collection can not currently achieve a direct cost savings through recycling, as can those municipalities conducting their own collections.

Municipalities involved would contract with the OTC for services rendered. Mandatory source separation and anti-scavenger ordinances must be passed and community-wide educational programs would be conducted by the municipality.

The OTC would return all proceeds from the sale of newspaper to the municipality in which it was collected. Municipalities would also benefit from State Recycling Tonnage Grants for their efforts.

The program will be designed to

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OTC clients provide curbside newspaper recycling service to Burlington County residents.

1983 — Recycling Progress Year

Throughout 1983 Morris County municipalities were taking a more active role in recycling. The following calendar gives us a look back on 1983 and shows progress toward County and State recycling goals:

March — Mountain Lakes increases recycling depot collections from 8 times/yr. to 12 times/yr.

April — Lincoln Park opens new glass and aluminum depot at Public Works yard. **April 16** — Dover opens County's first municipally run buy-back center for aluminum cans.

May — Florham Park adds

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County Studying Regional Composting

The County Solid Waste Management Staff has begun investigation on the feasibility of county-operated regional composting facilities. In early January the staff issued a survey to each of the County's 39 municipalities. The intent of the survey is to update information on current composting programs, to determine municipal interest in a regional facility, and help estimate the amount of yard waste. Based upon results of the survey, key municipalities will be targeted based upon need and interest.

Composting of leaves and other yard wastes, which average approximately

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Waste to Energy Study Addresses Pollution Concerns

Essex County recently completed a 500-page draft Environmental Impact Statement (EIS) for the County's proposed 2250 ton waste to energy facility. The EIS identified principal public concerns regarding resource recovery facilities, particularly concerns involving potential pollution problems.

Studies found that increases in air pollution levels resulting from the waste to energy facility would be insignificant. When plant emissions were added to existing background concentrations, the resulting maximum concentration for all regulated pollutants, except ozone and carbon monoxide, was well below Federal and State standards established to protect the health of the most sensitive people (children, the elderly and people with respiratory ailments). The facility would not contribute to existing levels of ozone and the violation of the carbon monoxide standard was mainly attributed to existing vehicular emissions. One fifth of one percent of total carbon monoxide emissions would be attributable to the resource recovery facility.

Another public concern addressed in the report was the issue of dioxin. Dioxins formed during the burning of solid waste are believed to be due to the chemical reaction of lignin, found in plant cells, with materials which contribute chlorine. A possible source of chlorine is PVC plastic which is used in items such as shower curtains and plastic pipe.

In calculations using the highest possible emission levels, it appeared that dioxins were almost completely destroyed at 1800°F. (The burning temperature of the proposed Essex plant will be 1800°F. to 2200°F.) Ground level concentrations of dioxin were also predicted, and estimated to be 12,000 times lower than the Netherlands standard, and 30,000 times lower than Ontario's guidelines.

Another pollution concern addressed in the EIS was whether hazardous substances would be accepted at the facility. The report explained that only residential, commercial and non-hazardous industrial waste would be accepted. High temperatures in the furnace would

Recycling...Cont'd. From Page 1

aluminum collection and expands hours at depot.

July 1 — Roxbury Township implements mandatory multi-material curbside recycling program.

September — Wharton becomes County's first municipality to drop solid waste collections from 2 days per week to 1, while increasing recycling pickups from 1 day per month to 2.

October — Passaic Township, Wharton and All-States Business Products Corp. are nominated for statewide recycling award. Wharton is awarded one of State's best curbside programs. ***October 5** — Jefferson Township adopts mandatory multi-material recycling ordinance.

* **November** — Netcong adopts mandatory multi-material recycling ordinance. **November 12** — Morris Plains opens new depot for newspaper, glass and aluminum and celebrates with a champagne breakfast.

December — Morristown appoints Solid Waste Advisory Council to study recycling alternatives. * **December 14** — Morris Township adopts a multi-material recycling ordinance.

* Ordinances passed 1983-programs to be implemented 1984.

ANJEC Helps Towns Recycle

As a result of a \$20,000 1982 Grant awarded by the New Jersey Office of Recycling, the Association of New Jersey Environmental Commissions (ANJEC) is implementing recycling education assistance programs in 15 New Jersey communities. Two Morris County communities to benefit from the project are **Denville** and **Montville Townships**.

ANJEC's goal is to significantly increase citizen participation in each of these communities where recycling programs are operated by the Environmental Commissions. ANJEC has a full-time experienced staff which will provide educational materials to environmental commissions which do not have the money, time or expertise to develop the materials themselves.

The educational materials and services which will be distributed to the selected communities include:

- One thousand brochures containing facts and figures on waste disposal figures or waste disposal problems and the benefits of recycling.

- Fifty recycling posters with information about each community's program.

- Four press releases covering the local program, which will be sent to newspapers, radio stations and to local interest groups for use in their newsletters.

- Six public service announcements for use by local radio stations.

- Citizen questionnaires to troubleshoot complaints and problems with local recycling programs.

- Three four-page inserts covering recycling to be distributed with the **ANJEC Report** which is distributed to over 1500 environmental commissions throughout the State.

ANJEC has formed a Technical Advisory Committee for the project and is now meeting with participating environmental commissions. Press releases and public service announcements will begin shortly, followed by printing of the brochures, posters and **ANJEC Report** inserts.

Have You Seen???

...billboards in your area, spreading the news that "Recycling Pay\$!"

As a result of the successful acquisition of public service billboards from Gannett Outdoor, the New Jersey Office of Recycling now has 40 billboards across the State advertising recycling.

The billboards can be seen in Morris County in **Butler** on Hamburg Turnpike, in **Passaic Township** on Main Avenue, in **Rockaway Borough** on Route 46, in **Jefferson Township** on Route 181 by Jefferson Township School, and in **Ledgewood** on Route 46 opposite Roxbury Avenue.

Keep a watch out for these and other recycling advertisements that will soon appear in magazines, on radio, and on cable TV.

destroy the small quantities of hazardous substances which normally exist in refuse.

The proposed Essex County facility is being sponsored jointly by the Port Authority of N.Y. and N.J. and the County of Essex.

County Studying Transfer Stations

Until the construction and operation of a proposed resource recovery facility in Morris County in the late 1980's, most solid waste generated within Morris County is expected to be exported to disposal facilities outside of the County. For the majority of Morris County municipalities, the designated disposal facilities are located more than 30 miles away. Transfer stations provide a practical solution to the many problems that distantly located disposal sites pose to municipalities.

A transfer station is a facility where refuse from collection vehicles is off-loaded and placed in larger trailers for transport to the disposal site. One transfer trailer is capable of transporting the waste from three to four collection vehicles. In addition to the benefit of reduced hauling costs, transfer stations also reduce truck traffic near present disposal facilities and, eventually, will reduce truck traffic at the County's resource recovery facility.

The facility is completely enclosed containing a reinforced concrete tipping floor with reinforced concrete walls on opposite sides. The third side hosts an arrangement of machines and equipment. Opposite that is the two-bay entry for the packer and roll-off trucks. From an observer's perspective, a transfer station typically resembles a warehouse or other light industrial use.

The station is supplied with water used for washing, dust control and fire protection. Ventilation is through a roof ridge vent or wall mounted exhaust fans.

Incoming trucks are weighed before proceeding to the transfer building through the entrance door. Inside the building, they will be directed to a specific floor area for unloading. By depositing the waste on the floor, spotters will be able to inspect the load for hazardous and otherwise unacceptable material. Recycling of certain materials may also occur at this time.

After unloading, the delivery trucks continue out the exit door. Transfer of the waste from the tipping floor into the open-top trailers is done by push-

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Municipalities Reap Recycling Benefits

The second round of tonnage grants finally arrived in late November netting a total \$150,633.28 in grant awards to the 28 Morris County municipalities which applied. Morris County ranked number 4 in the State for reported tons of material recycled in 1982.

The table below lists the 1982 municipal applications and the respective amounts awarded each:

Boonton	\$5,297.96
Butler	492.42
Chatham Boro	1,972.21
Chatham Township	3,993.67
Chester Boro	1,126.57
Chester Township	234.28
Denville	2,130.25
Dover	1,202.87
Florham Park	2,648.29
Hanover	5,670.33
Harding	1,509.27
Jefferson	1,989.81
Kinnelon	4,732.82
Lincoln Park	10,107.14 *
Madison	4,224.85
Mendham	2,169.50
Mine Hill	773.85
Montville	\$20,473.26*
Mount Olive	6,363.62 *
Mountain Lakes	911.57
Parsippay-Troy Hills	11,216.21 *
Passaic Township	4,715.38
Pequannock	10,784.52 *
Randolph	35,035.42 *
Rockaway Township	1,775.23
Roxbury Township	5,854.72 *
Washington Township	1,848.22
Wharton	1,379.04
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	\$150,633.28

*Includes large composting and or commercial recycling tonnage

1983 Program Planning/Education Grants Postponed

Due to proposed changes in the 1983 Program Planning and Education grant programs, distribution of applications and guidelines has been postponed.

Currently, the New Jersey Office of Recycling has printed the new regulations in the January register and awaits final adoption after February 3. Distribution of applications and guidelines is not expected before March or April, 1984.

The regulations, as outlined in the January register, propose to eliminate the need for matching funds in order to apply, and establish higher minimum amounts which may be requested by an applicant.

Program Planning Grant requests must be no less than \$5,000. These may be used for any administrative, planning or operating expenses associated with publicly sponsored programs.

Education Grant applications must be no less than \$2,000. These grants may be used for any expenses associated with recycling and litter abatement publicity, information and education programs.

The minimum dollar amounts may eliminate a few small applications. However, counties are encouraged to apply on behalf of a number of municipalities. Morris County has tentative plans to apply for funds to be used toward the production of publicity material such as posters, bumper stickers, t-shirts and buttons which would be made available to municipalities and volunteer groups free of charge.

Morris Plains Children Sing About Recycling

In an effort to provide a fun way for young children to learn about recycling, **Morris Plains** has been singing about recycling.

The words and music were written by Dan Goldman, a Junior at Princeton. Dan was a Cub Scout in the mid 70's when his Troop Number 39 ran Morris Plains' recycling program.

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Children...Cont'd. From Page 3

The song, appropriately entitled "Recycling" has been taught to students in the Morris Plains primary schools by his mother, Ruth Goldman, who teaches music there. It will be performed by the students at special functions.

"Recycling"

*Please don't take your bottles and cans,
and throw them all away.
There's something great we all can do,
we've found a better way.
You can turn your trash to cash,
and keep our planet clean,
and help conserve our energy,
I'll tell you what I mean.*

*Recycle your papers, bottles and cans,
Recycling is going on throughout the land.
Recycling is all you gotta do,
Recycle it and turn it into something new!*

*Recycle it,
make an old something new!*

Newsletter Articles

Does your recycling program include projects which would interest our readers? Do you have a new program you would like to see announced? Does a particular aspect of your program help to make it a success? If so, contact the editor at 285-6183 and your story may appear in a future issue.

Composting...Cont'd. From Page 1

13% of the total municipal solid waste stream, is a simple and environmentally beneficial alternative to landfill disposal. Composting of this material can provide several benefits to a municipality including: reduced solid waste disposal costs; creation of a mulch and soil conditioner; eligibility for recycling grants; and increased environmental awareness of the community.

County staff will also be investigating the availability of County-owned property, and in particular County parkland, to determine potential composting sites. The staff will be working closely with the Morris County Park Commission in this effort.

Transfer...Cont'd. From Page 3

feeding with a rubber-tired front-end loader. When the transfer trailer is loaded to its legal limit, it departs the station and proceeds to the designated disposal facility. It should be noted that no waste will be permitted to be stored in the station overnight.

Morris County's strategy is to locate several transfer stations within the County to service particular geographical areas. Private industry will locate, design and operate the facilities. The County is presently reviewing several transfer station proposals and is optimistic that implementation of these facilities will begin in 1984.

Close Call for Chesters/Mendhams

In December, 1982, four Morris County municipalities lost their recycling depot service as a result of the termination of business by SORT Corporation of Gladstone.

For years SORT had conducted monthly collections of paper, glass and aluminum at drop-off centers temporarily set up in shopping center parking areas in the **Chesters** and the **Mendhams**. Due to a lack of overall business profits, SORT notified municipalities in December that they would conduct their final collections in January.

In response to SORT's action, and in an effort to maintain citizen involvement in recycling, both municipalities immediately sought out a new collector and successfully acquired the services of Recycling Unlimited. Thanks to the quick action of municipal officials and concerned citizens, the Chesters and the Mendhams will continue to be serviced by a local recycling center.

Curbside...Cont'd. From Page 1

benefit municipalities and would be expanded using more vehicles and covering more towns if the pilot program proves successful.

Pending final program approval, Morris County officials look toward Summer, 1984 for pilot program implementation.



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