

AMENDMENT #18

TO THE CUMBERLAND COUNTY

SOLID WASTE MANAGEMENT PLAN

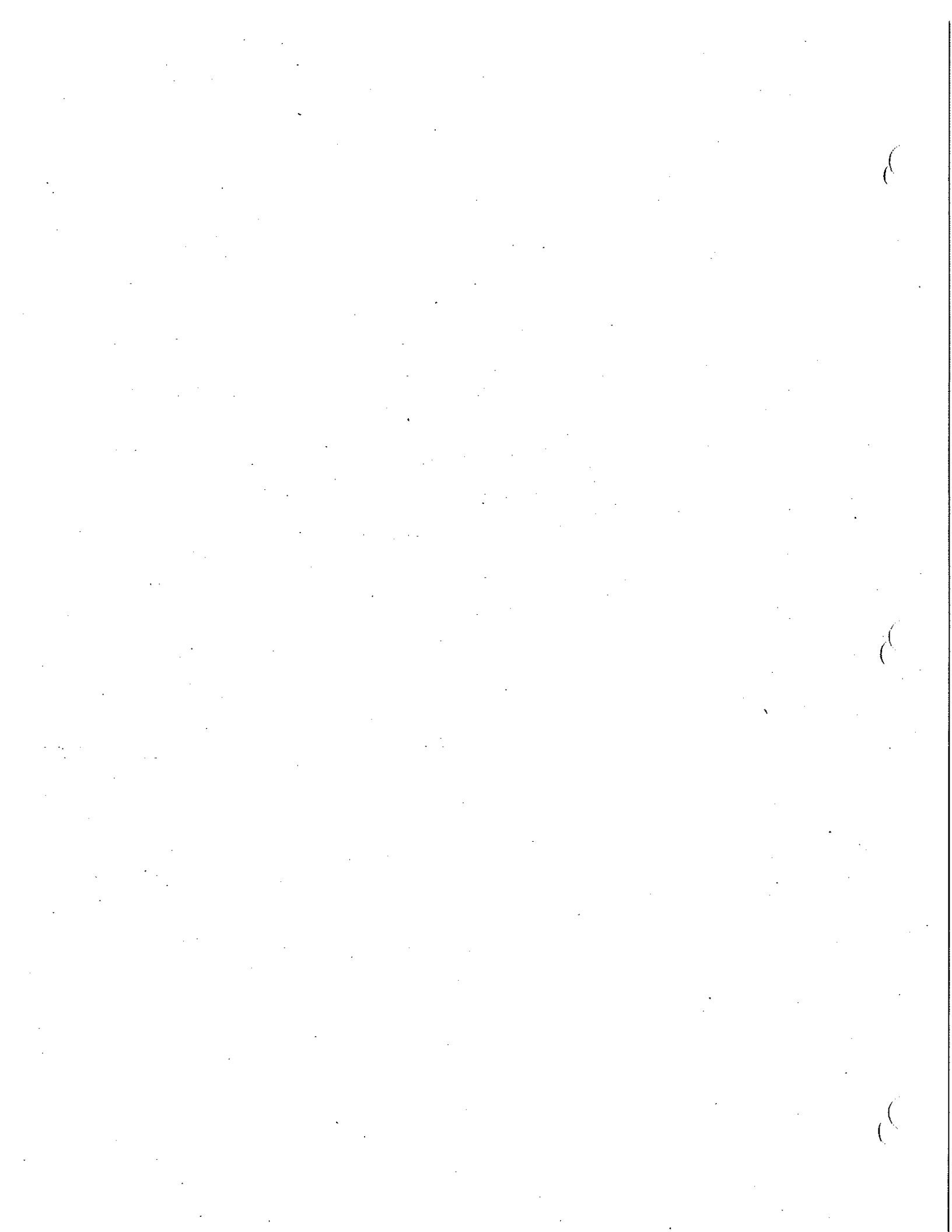


CUMBERLAND COUNTY IMPROVEMENT AUTHORITY

2 NORTH HIGH STREET

MILLVILLE, NEW JERSEY 08332

August 2005

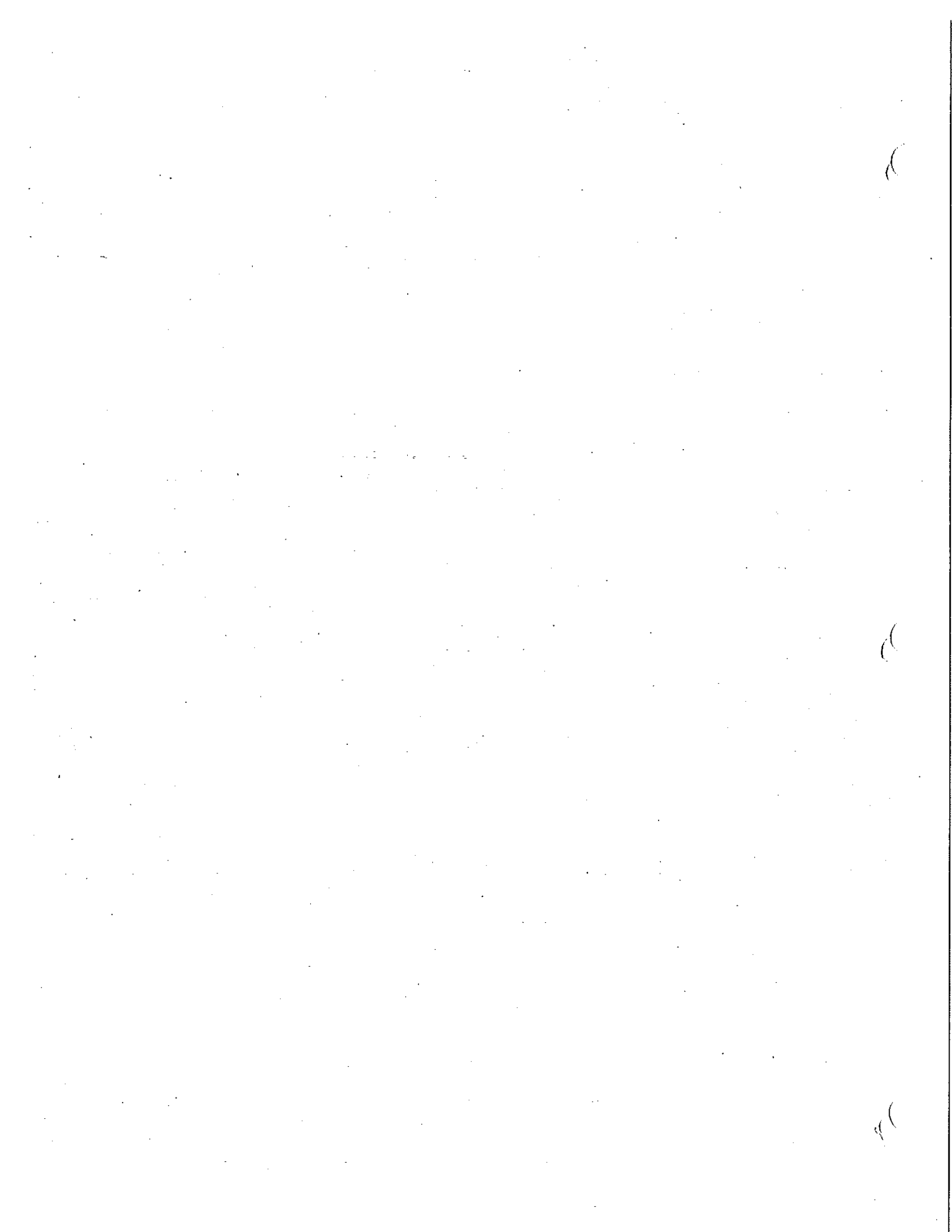


**AMENDMENT NO. 18 TO THE CUMBERLAND COUNTY  
SOLID WASTE MANAGEMENT PLAN**



**TABLE OF CONTENTS**

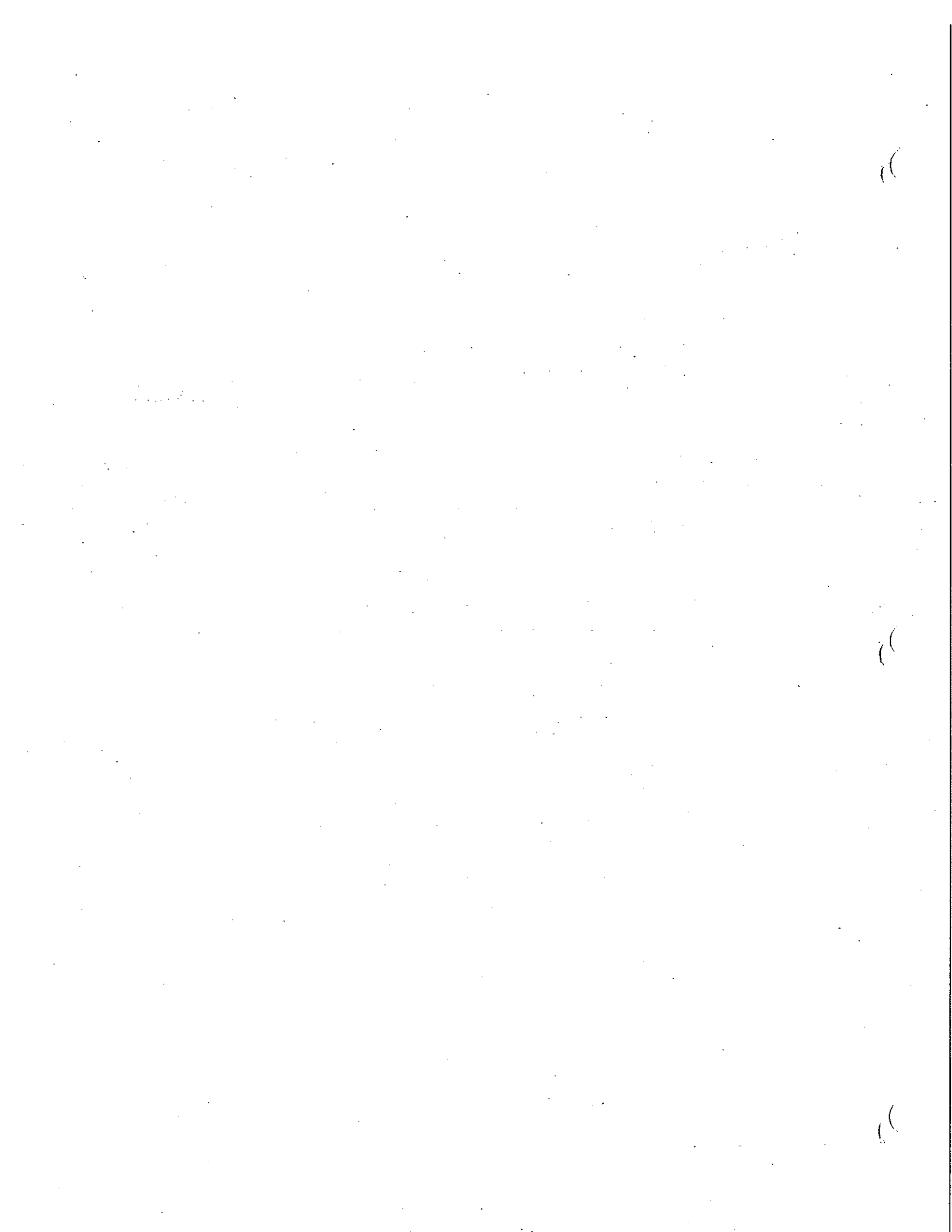
|              |   |                |
|--------------|---|----------------|
| <b>1.0</b>   | <b>INTRODUCTION</b>   | <b>3 - 5</b>   |
| <b>2.0</b>   | <b>SUMMARY OF CUMBERLAND COUNTY SOLID WASTE<br/>MANAGEMENT PLAN</b>   | <b>6 - 8</b>   |
| <b>3.0</b>   | <b>PROPOSED LATERAL AND VERTICAL EXPANSION OF THE LANDFILL<br/>AT THE CUMBERLAND COUNTY SOLID WASTE COMPLEX</b>   |                |
| <b>3.1</b>   | <b>Purpose and Background</b>   | <b>9 - 11</b>  |
| <b>3.2</b>   | <b>The Plan</b>   | <b>11</b>      |
| <b>4.0</b>   | <b>FACILITY INFRASTRUCTURE IMPROVEMENTS/REPLACEMENT</b>   |                |
| <b>4.1</b>   | <b>Purpose and Background</b>   | <b>12 - 19</b> |
| <b>4.1.1</b> | <b>Convenience Center</b>   | <b>12 - 14</b> |
| <b>4.1.2</b> | <b>Access Road, Scales and Scalehouse</b>   | <b>14</b>      |
| <b>4.1.3</b> | <b>New Equipment Storage and Maintenance Facility</b>   | <b>14 - 16</b> |
| <b>4.1.4</b> | <b>New Fueling Station</b>  | <b>16 - 17</b> |
| <b>4.1.5</b> | <b>Modification of Administration/Maintenance Building</b>  | <b>17 - 18</b> |
| <b>4.1.6</b> | <b>Modification of Existing Administrative and Personnel Facilities<br/>at the Material Separating Facility</b>   | <b>18</b>      |
| <b>4.1.7</b> | <b>Improvements to the Leachate Collection, Pretreatment and<br/>Load-out/Pumping Facilities</b>  | <b>18 - 19</b> |
| <b>4.1.8</b> | <b>Bioreactor Landfill</b>  | <b>19</b>      |
| <b>4.2</b>   | <b>The Plan</b>   | <b>20</b>      |
| <b>5.0</b>   | <b>REMOVAL OF FEDERAL DISPOSAL, INC. FROM THE<br/>CUMBERLAND COUNTY SOLID WASTE MANAGEMENT PLAN<br/>AS AN APPROVED CLASS A/CLASS B RECYCLING CENTER<br/>AND MATERIALRECOVERY/SOLID WASTE TRANSFER STATION</b> |                |
| <b>5.1</b>   | <b>Purpose and Background</b>   | <b>21 - 22</b> |
| <b>5.2</b>   | <b>The Plan</b>   | <b>22</b>      |



**AMENDMENT NO. 18 TO THE CUMBERLAND COUNTY  
SOLID WASTE MANAGEMENT PLAN**

**APPENDICES**

**APPENDIX A      Plan Amendment No. 17 Certification**



## 1.0 INTRODUCTION

The County of Cumberland proposes to amend the Cumberland County Solid Waste Management Plan (CCSWMP or County Plan) pursuant to the requirements of the New Jersey Solid Waste Management Act (N.J.S.A. 13:1E-1 et. seq.). The New Jersey Solid Waste Management Act (the Act) designates each county in the State and the Hackensack Meadowlands District as solid waste management districts, and provides each county and the Hackensack Meadowlands Development Commission with the authority to develop and implement comprehensive solid waste management plans which meet the needs of every municipality within each county and within the Hackensack Meadowlands District. The Act requires that all district plans be based on and accompanied by a report detailing the existing waste disposal situation in the district, and a plan which includes the strategy to be followed by the district in meeting the solid waste management needs of the district for a 10 year planning period. The Act further provides that a district may review its plan at anytime and, if found inadequate, adopt a new plan.

The Cumberland County Solid Waste Management Plan was adopted by the Cumberland County Board of Chosen Freeholders on December 13, 1979, and approved with modifications by the Commissioner of the New Jersey Department of Environmental Protection (NJDEP) on March 4, 1981. Since 1981, sixteen amendments to the SWMP have been adopted by the Board of Chosen Freeholders and later certified by the Commissioner. Plan Amendment No 17 was approved by the Cumberland County Board of Chosen Freeholders on March 10, 2005 and is currently awaiting certification by the Commissioner.

The purpose of the eighteenth amendment to the Cumberland County Solid Waste Management Plan is as follows:

1. To raise the existing permitted top elevation of the landfill from elevation 212.00 feet (NGVD 1929) to 226.00 feet and to allow for a 31.9 acre lateral expansion of the landfill footprint into Block 76, Lots 15, 18, and 19 in Deerfield Township, Cumberland County, NJ.
2. To improve/replace certain infrastructure at the Cumberland County Solid Waste Complex originally designed for a twenty (20) year life span (beginning in 1987) that is now inadequate to serve the needs of the landfill for an additional twenty (20) years, through the year 2027. These infrastructure improvements include:

- A new commercial convenience center to better accommodate unregistered vehicles (smaller trucks and trailers) disposing of solid waste at the Cumberland County Solid Waste Complex.
- A new access road, scales and scalehouse to better accommodate solid waste disposal vehicle traffic.
- A new equipment storage and maintenance facility to provide for the increased need for equipment maintenance and storage needs of the present and future fleet of landfill and over the road equipment necessary to implement the ever growing solid waste disposal and recycling needs of Cumberland County.
- A new diesel and gasoline fueling station with the capability of being expanded to accommodate and an "alternative fuel" tank and pump.
- Modification at the Administration/Maintenance building to serve as a base of operations for all Solid Waste Complex Employees, to better accommodate employee needs.
- Conversion of the existing administrative and personnel facilities at the Material Separating Facility into a public education and employee training center and relocating the operations office from the second floor to the first floor.
- Improvements to the Leachate Collection, Pretreatment and Load-out/Pumping Facilities to include a new load-out station to lessen the time required to load treated leachate into tanker trucks and to serve as a pump station to pump leachate for re-circulating leachate to the landfill for use in an Aerobic and Anaerobic Bioreactor Research, Development and Demonstration Project.
- Under a Certificate of Authority to Operate, the Cumberland County Improvement Authority will construct and operate side by side aerobic and anaerobic bioreactor cells as a Research, Development and Demonstration (RD & D) Project. During the operation of this RD & D) project the efficiencies and benefits of both the aerobic and anaerobic bioreactors in the degradation and stabilization of the solid waste will be determined. A permit



modification would subsequently be requested from NJDEP to use one or both types of bioreactor technology on a continuous basis.

3. The removal of Federal Disposal, Inc. from the Cumberland County Solid Waste Management Plan as a Class A/Class B Recycling Facility and a Material Recovery /Solid Waste Transfer Station. The proposed facilities were to be located at the southwesterly corner of West Chestnut Avenue and Mill Road (Block 515, Lot 2) in the City of Vineland.

To insure the broadest possible participation by the general public in this Plan Amendment process, the Cumberland County Board of Chosen Freeholders has scheduled a public hearing on Thursday September 15, 2005 at 5:00 P.M. at the Cumberland County Court House, 3<sup>rd</sup> Floor Freeholder Meeting Room. All County residents, public officials or organizations interested in Amendment No. 18 to the SWMP are encouraged to attend and offer testimony.

Copies of Plan Amendment No. 18 are available for review at:

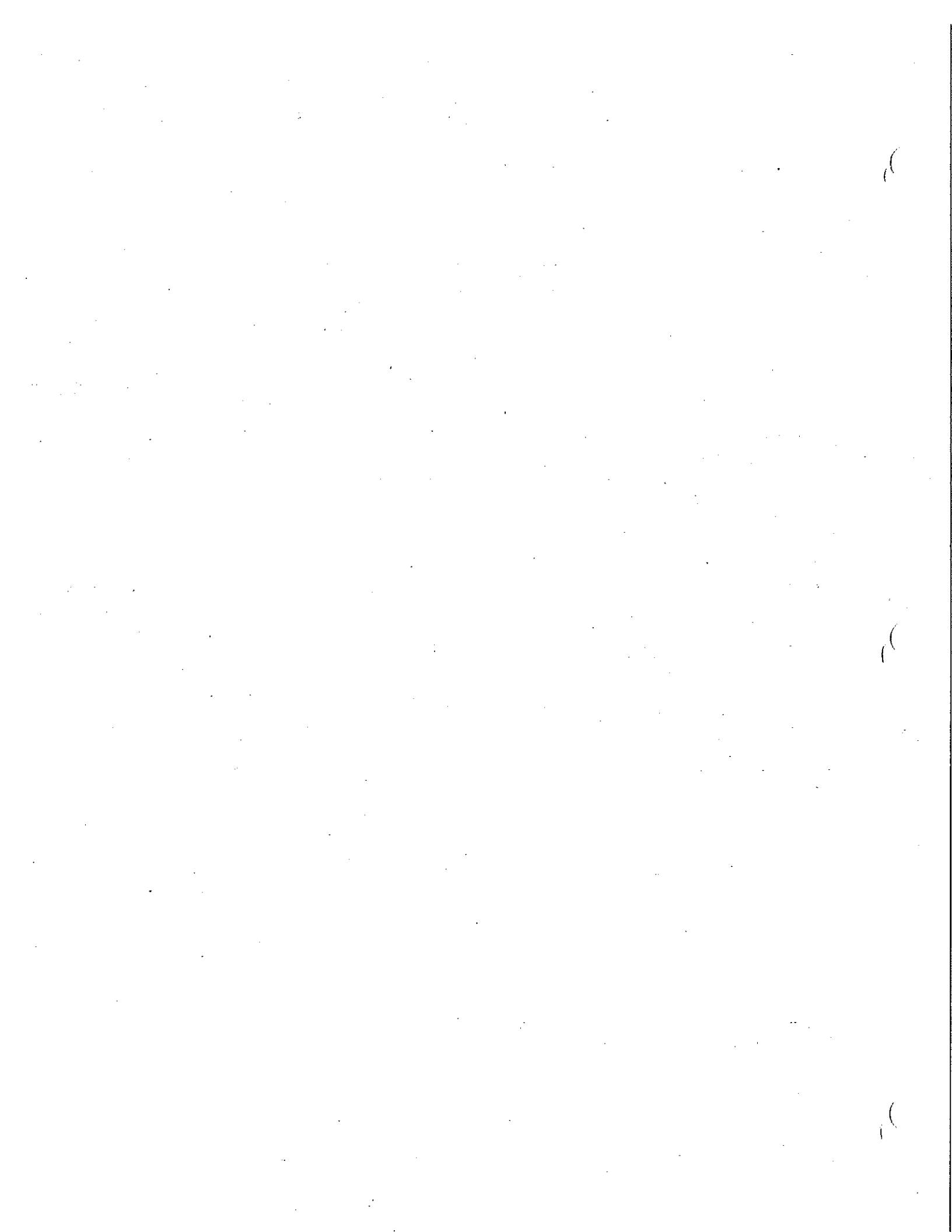
- The office of the Cumberland County Improvement Authority, located at 2 North High Street, Millville, NJ.
- The office of the County Clerk, located at 60 West Broad Street, Bridgeton, NJ.
- The Municipal Clerk's office in each of the 14 Cumberland County Municipalities.

Inquiries and/or comments concerning this proposed Plan Amendment may be forwarded in writing to:

Cumberland County Board of Chosen Freeholders  
790 East Commerce Street  
Bridgeton, NJ 08302

or

Cumberland County Improvement Authority  
2 North High Street  
Millville, NJ 08332



## 2.0 SUMMARY OF CUMBERLAND COUNTY SOLID WASTE MANAGEMENT PLAN

The Cumberland County Solid Waste Management Plan was adopted by the Cumberland County Board of Chosen Freeholders on December 13, 1979, and approved with modifications by the Commissioner of the New Jersey Department of Environmental Protection (NJDEP) on March 4, 1981. The SWMP consists of an integrated approach to solid waste management that includes waste reduction, source separation and recycling, resource recovery, and landfilling.

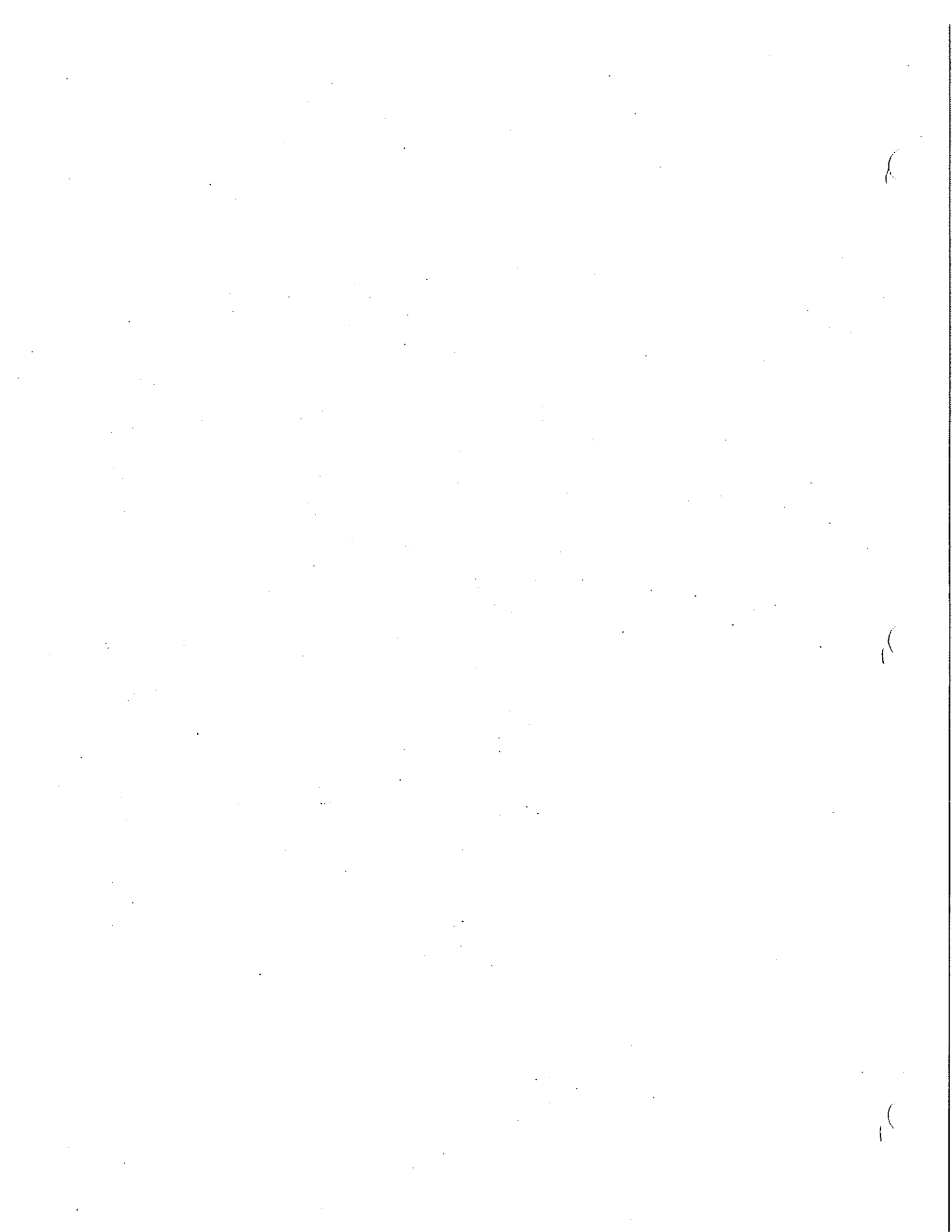
The original SWMP set forth a process for siting a regional landfill to serve Cumberland County, developing a resource recovery facility to serve the County, and developing recycling programs in each municipality in the County. Furthermore, the plan designated the Cumberland County Improvement Authority (Improvement Authority) as the solid waste implementing agency within the County. In order to further develop the SWMP and meet the requirements of the Solid Waste Management Act and the Mandatory Source Separation and Recycling Act that was passed in 1987, the County prepared several plan amendments that are described below:

| <u>Amendment No.</u> | <u>Date of Amendment</u> | <u>NJDEP Approval</u> | <u>Purpose of Amendment</u>   |
|----------------------|--------------------------|-----------------------|---|
| 1                    | July 14, 1983            | December 22, 1983*    | Prepare background studies and update the Solid Waste Management Plan   |
| 2                    | March 15, 1984           | July 30, 1984         | Select site for Cumberland County Solid Waste Complex   |
| 3                    | May 8, 1986              | October 9, 1986       | Leaf and vegetative waste composting policy, interim disposal capacity, transportation analysis and construction debris   |
| 4                    | October 17, 1987         | March 9, 1988*        | County Recycling Plan   |
| 5                    | October 17, 1987         | March 9, 1988*        | Resource Recovery Investment Tax (RRIT) disbursement schedule, convenience centers, solid waste contingency plan, existing landfill closures and litter abatement partnership program |
| 6                    | July 26, 1989            | November 27, 1989*    | Modifications to Amendment No. 4 and No. 5 as required by NJDEP   |
| 7                    | December 20, 1989        | June 4, 1990          | Use of RRIT funds for Material Separating Facility (MSF) and household recycling buckets  |

| Amendment No. | Date of Amendment | NJDEP Approval                           | Purpose of Amendment   |
|---------------|-------------------|--|--|
| 8             | July 18, 1981     | January 3, 1992*                         | Include recycling centers located in the County, development of a bulky waste recycling facility at the Solid Waste Complex and expand use of RRIT funds for MSF operating costs   |
| 9             | June 9, 1992      | September 18, 1992<br>November 17, 1992* | Revise RRIT fund disbursement schedule, include additional recycling centers located in the County, address recommendations of NJDEP Emergency Solid Waste Assessment Task Force Final Report and include blanket inclusion policy for recycling centers                           |
| 10            | April 14, 1994    | August 15, 1994                          | Response to Governor's Emergency Solid Waste Assessment Task Force in the areas of recycling, enforcement, education and source reduction<br><br>Plan for debris disposal from the demolition of the County Manor  |
| 11            | December 15, 1994 | April 27, 1995                           | Expanding Amendment No. 10, includes procurement practices, household hazardous waste collection program and collection of recyclables<br>Delays construction of bulky waste recycling facility (see Amendment No. 8) and includes a class B recycling center into the County Plan |
| 12            | June 22, 1995     | August 3, 1995                           | Inclusion of a class B recycling center into the County Plan   |
| 13            | April 10, 1997    | August 5, 1997                           | Revise RRIT fund disbursement schedule and deletes construction of bulky waste recycling facility from the County Plan (see Amendment No. 11)  |
| 14            | January 15, 1998  | April 24, 1998                           | Response to May 1, 1997 decision of the U.S. Court of Appeals for the Third Circuit, which declared unconstitutional New Jersey's historic system of solid waste flow control  |

| Amendment No. | Date of Amendment               | NJDEP Approval  | Purpose of Amendment   |
|---------------|---------------------------------|-----------------|--|
| 16            | August 2003<br>(Rev. Oct. 2003) | July 13, 2004   | <p>Adds: Recyclables Transfer Station; Class B Recycling Facility for Tires; Clean Wood Chipping Operation; Leaf Composting Facility; and Permanent Household Hazardous Waste Collection Facility at the Cumberland County Solid Waste Complex.</p> <p>Adds an additional four acres to the Mid Atlantic Recycling Technology, Inc. (MART) facility located at Block 89, Lot 14 in the City of Vineland.</p> <p>Adds an exempt leaf composting facility proposed by the Township of Maurice River to be located on Block 250, lot 5 in Maurice River Township.</p> |
| 17            | February 2005                   | August 10, 2005 | <p>Includes Nature's Choice as a Class "B" Recycling Facility located on Block 905, Lots 6 in Upper Deerfield Township for the receipt, storage, processing, and/or transfer of whole trees, tree trunks, tree parts, tree stumps, brush and clean pallets.</p>  |

\* Approved with modifications requested by the Commissioner of NJDEP



### 3.0 PROPOSED LATERAL AND VERTICAL EXPANSION OF THE LANDFILL AT THE CUMBERLAND COUNTY SOLID WASTE COMPLEX

#### 3.1 Purpose and Background

In accordance with the original Cumberland County Solid Waste Management Plan (CCSWMP), adopted by the Cumberland County Board of Chosen Freeholders on December 13, 1979 and approved by the Commissioner of The New Jersey Department of Environmental Protection (NJDEP) on March 4, 1981, the Cumberland County Improvement Authority (CCIA) constructed and is operating a regional sanitary landfill known as the Cumberland County Solid Waste Complex (CCSWC). The CCSWC, shown on Figure 1, "Site Location Map" is located on Jesse's Bridge Road in Deerfield Township, New Jersey, west of State Highway Route 55.

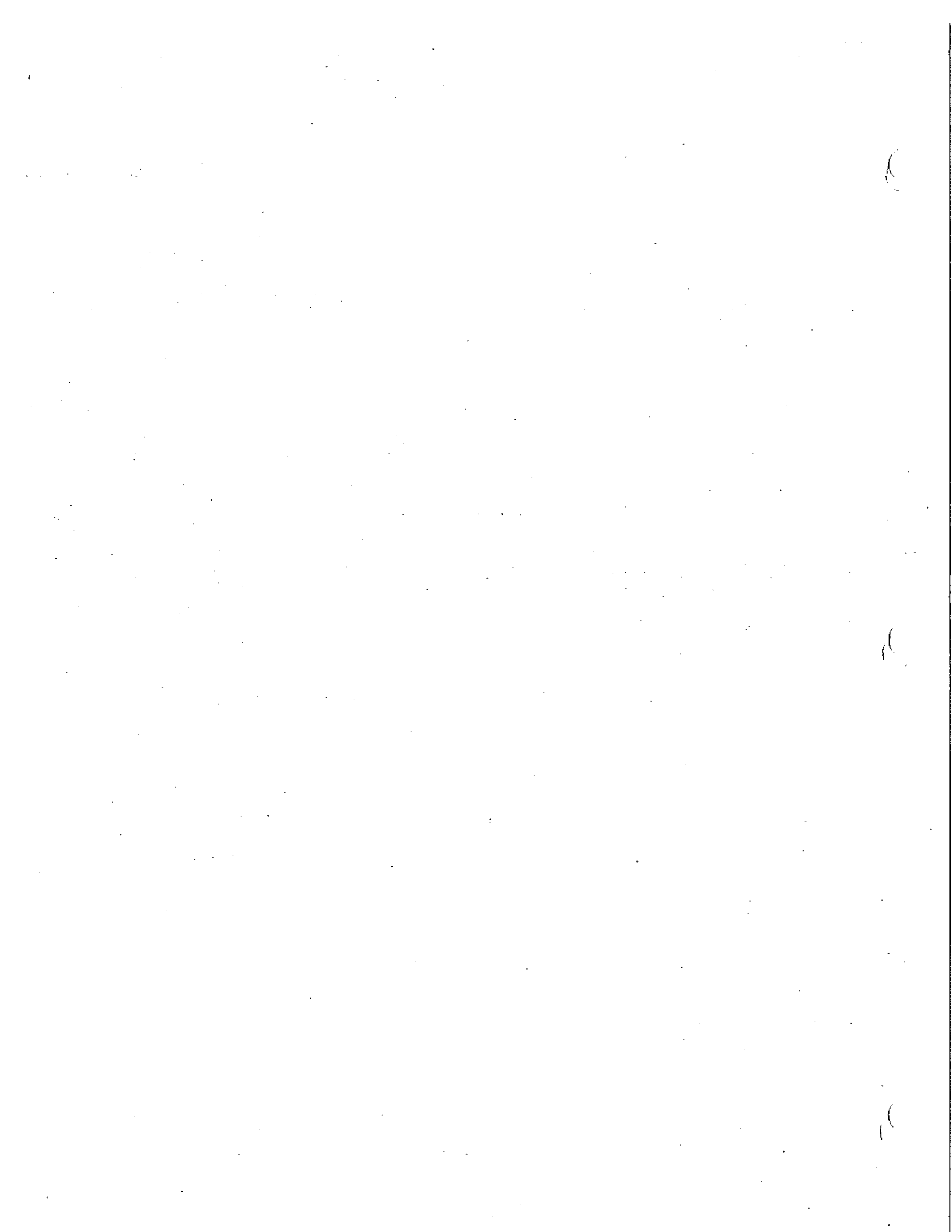
Originally designed to accommodate the solid waste disposal needs of Cumberland County for a twenty year period, the CCSWC was originally issued a Solid Waste Facility Permit by NJDEP on December 14, 1985 for a five (5) year period. Landfilling operations commenced on October 13, 1987.

Solid Waste Facility Permit renewals were issued on December 31, 1990, July 28, 1997 and October 20, 2000 for additional five (5) year periods.

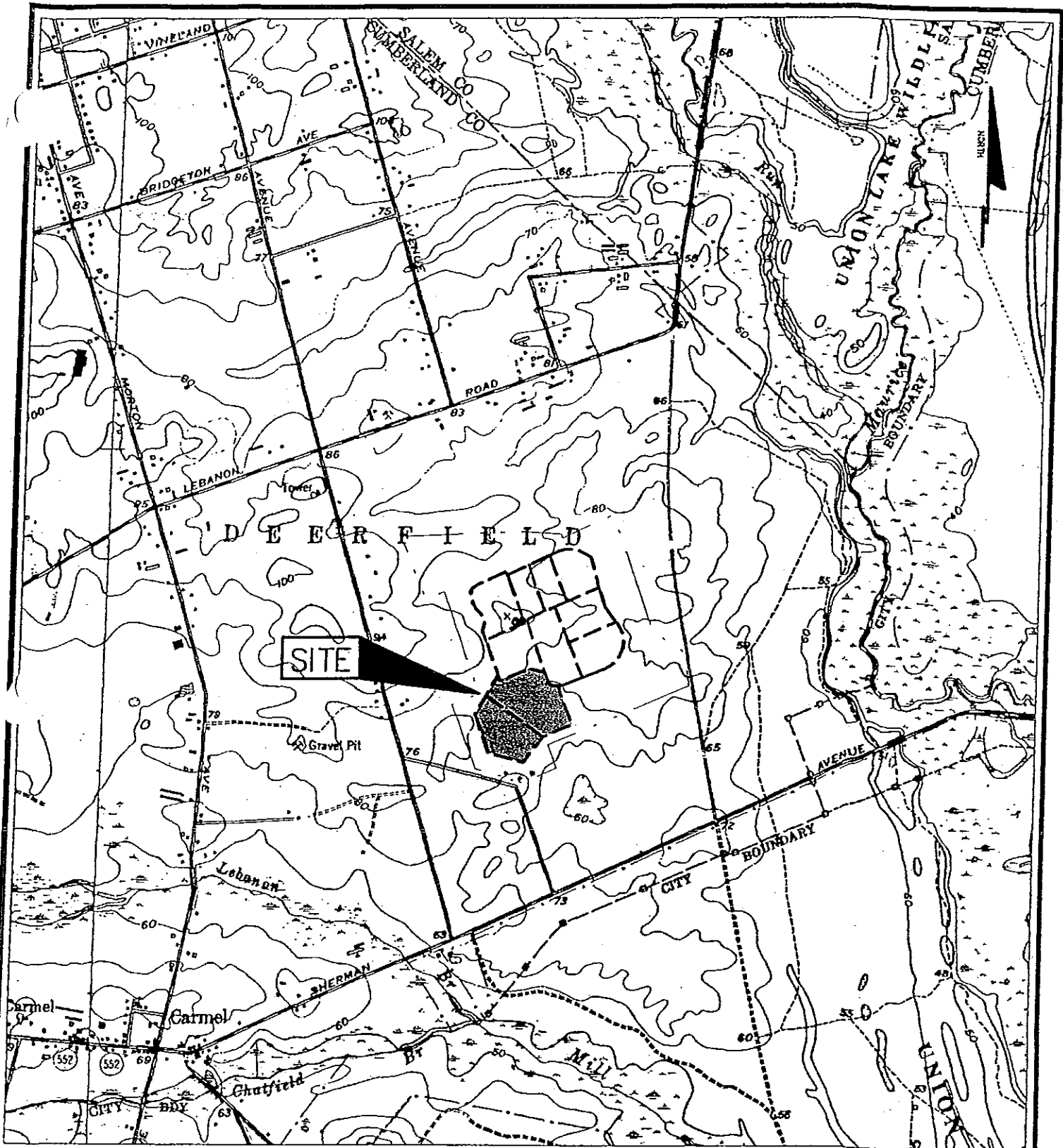
The CCSWC, as originally permitted, was comprised of approximately 171.89 acres consisting of Block 76, Lots 14, 15, and 16 in Deerfield Township. Of this total acreage, approximately 75.5 acres are reserved for landfill disposal. The balance of the site is occupied by the Material Separating Facility, a leachate pretreatment facility, a landfill gas flare, a tire shredding operation, an administration/maintenance building, a scale and scale house, a convenience center, access roads, stormwater facilities and buffer.

Since the commencement of operations, an additional 184 acres of adjacent properties were purchased by the Improvement Authority to provide for excavation of cover material for landfill operations, for development of future waste reduction processing and for expansion of the buffer areas.

Block 76, Lots 18 and 19 have been utilized since 1988 as a staging area for all construction projects at the landfill and as a source of borrow material for use as







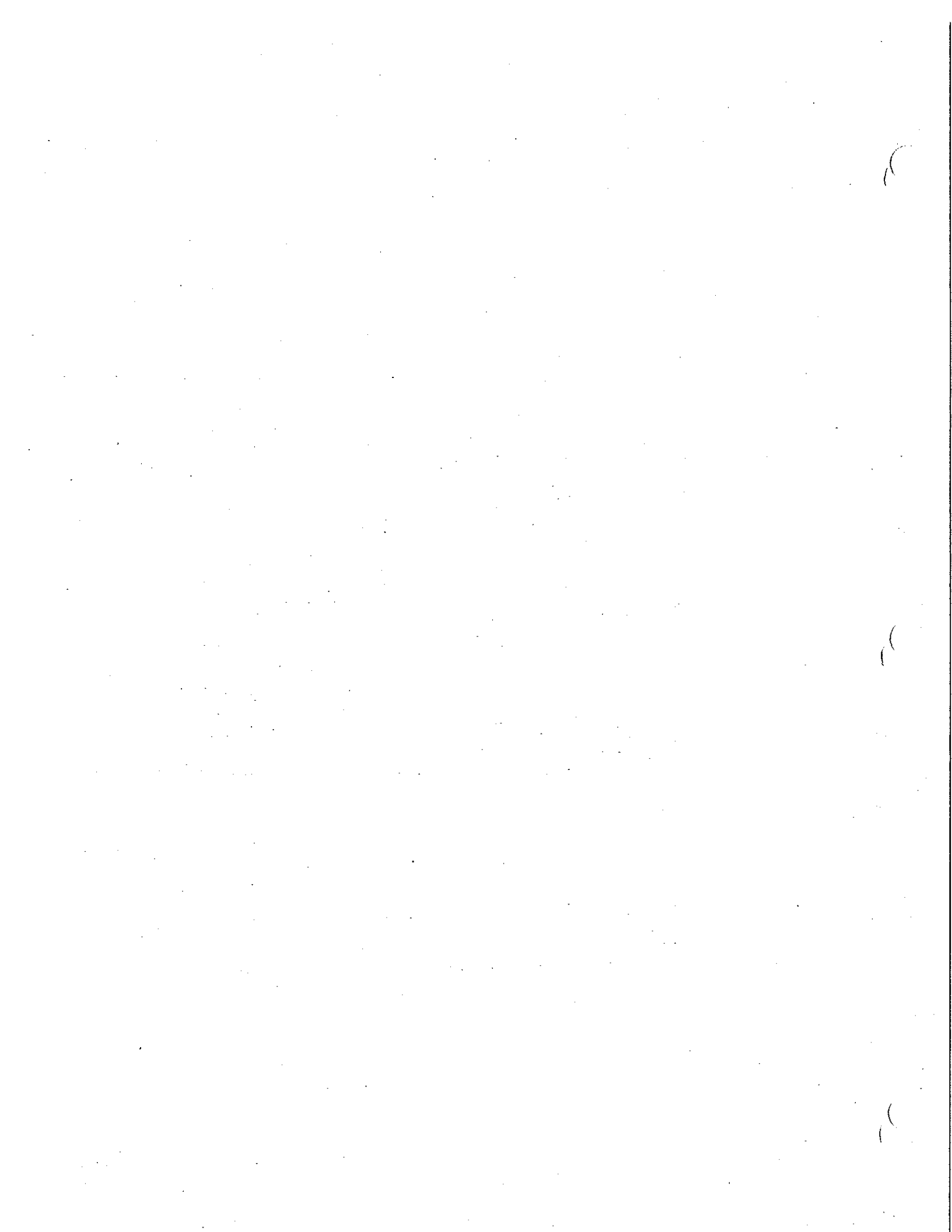
SOURCE: U.S.G.S. 7.5 MINUTE SERIES, MILLVILLE, N.J. QUADRANGLE

**SITE LOCATION MAP**  
 OF  
**LATERAL EXPANSION**  
 FOR THE  
**CUMBERLAND COUNTY IMPROVEMENT AUTHORITY**  
 CUMBERLAND COUNTY SOLID WASTE COMPLEX  
 DEERFIELD TOWNSHIP, NEW JERSEY

**T&M ASSOCIATES**  
 CONSULTING ENGINEERS, SCIENTISTS, PLANNERS,  
 SURVEYORS AND LICENSED DRILLERS  
 1256 NORTH CHURCH STREET, SUITE 3  
 MOORESTOWN, NJ 08057 (856) 722-6700  
 New Jersey Certificate of Authorization No. 24GA27987500

|         |            |
|---------|------------|
| date    | job no.    |
| 3/19/04 | CCIAL06402 |

FIGURE 1



daily and intermediate cover required for landfill operations. These lots totaling 36.78 acres were added to the permitted area of the CCSWC by Plan Amendment No. 15.

Portions of Lots 2, 3 and 4 in Block 76 totaling approximately 30.89 acres were also added to the permitted area of the CCSWC by Plan Amendment No. 15, bringing the total permitted area of the Complex to 239.83 acres. That portion of Lot 3 added by plan Amendment No. 15 is being excavated to construct a storm water detention basin and the excavated soils are being used as daily and intermediate cover on the landfill.

The Vicinity Plan (Drawing C-3) shows the permitted property comprising the Cumberland County Solid Waste Complex and the zoning of the surrounding area.

Plan Amendment No. 16 to the CCSWMP, approved of the Commissioner of NJDEP on July 13, 2004, included the following permitted activities at the CCSWC:

1. Commingled Recyclables and Mixed Paper Transfer Station
2. Class B recycling Center for Tires
3. Class B Recycling Center for Clean Wood
4. Class B Recycling Center for Leaf Composting
5. Permanent Household Hazardous Waste/Universal Waste Collection Facility

These facilities, currently in various stages of design, are shown on an overall facility cite plan Drawing C-4.

Through vigorous county wide recycling programs and volume additions made possible by changes in the regulatory requirements and changes in landfill technology, it is anticipated that, at the current rate of landfilling, the existing permitted landfill footprint will serve the solid waste disposal needs of Cumberland County into the year 2017, or approximately 10 years more than originally anticipated.

While this appears to satisfy the 10 year planning period requirement of the New Jersey Solid Waste Management Act (N.J.S.A. 13:1E-1 et. seq.), the length of time necessary to prepare permit documents, obtain permit approval, develop construction documents, construct the new cells and obtain cell certification, indicates that it is necessary to begin the planning process for a lateral and vertical expansion of the existing landfill at this time to ensure that the solid waste disposal needs of Cumberland County are planned for well into the future.

By expanding the footprint of the landfill laterally from the Southern end of existing Cell 3 into lots 15, 18, and 19, it is possible to increase the size of the permitted landfill by 30.9 acres. To achieve proper grading of the final (top) elevations of the landfill and provide for uniform slopes that will allow for proper stormwater run-off requires that the permitted top elevation be increased from elevation 212.00 (NGVD 1929) to elevation 226.00 (NGVD 1929). This lateral and vertical expansion of the landfill will add an additional 4,125,000 cubic yards of volume to the permitted capacity of the landfill, and at the current rate of filling will accommodate the solid waste disposal needs of Cumberland County for an additional 10 years through the year 2027.


### 3.2 The Plan

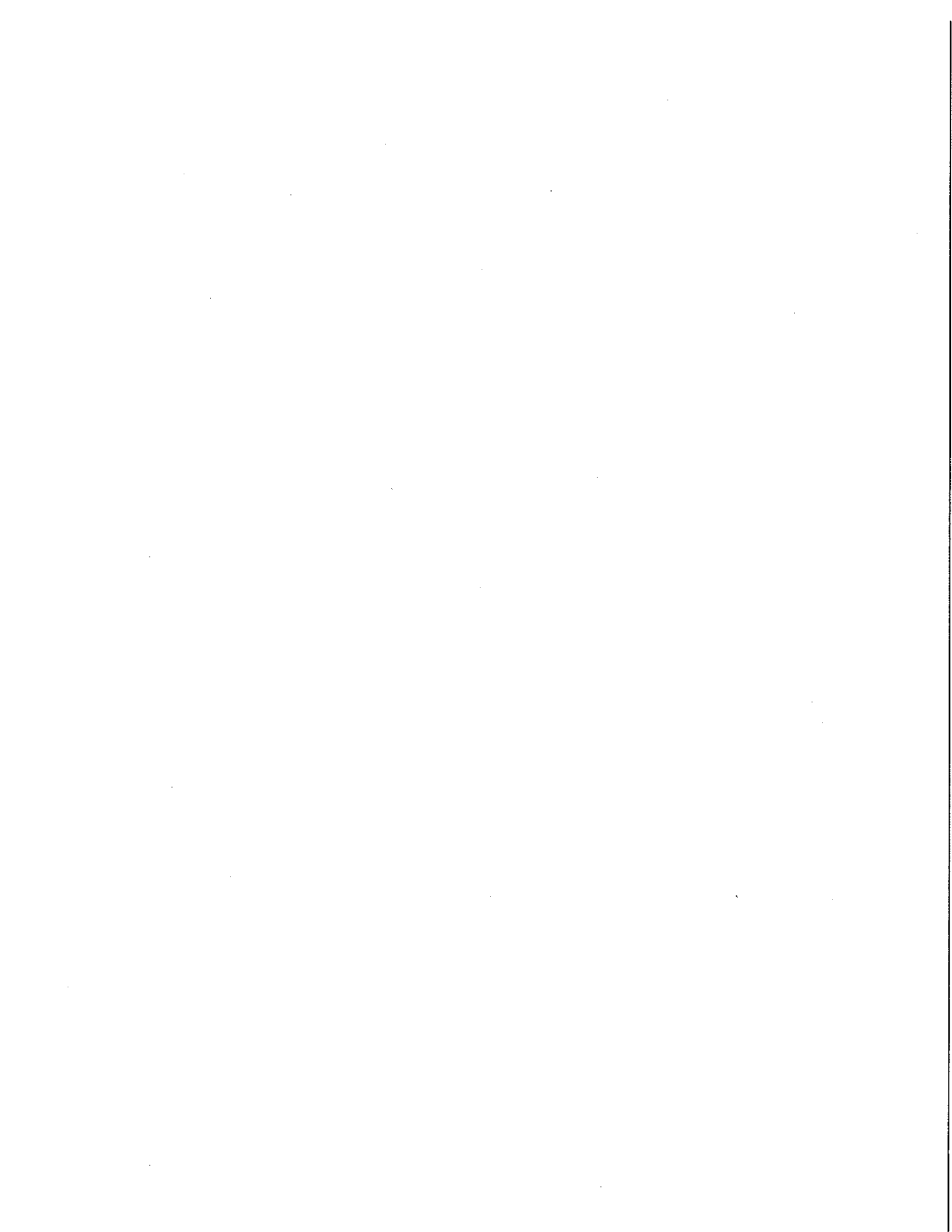
Upon adoption of this Plan Amendment 18 by the Cumberland County Board of Chosen Freeholders and its approval by the Commissioner of NJDEP, the 31.9 acre lateral expansion into Block 76, Lots 15, 18, and 19 and the increase in the permitted top elevation of the landfill from elevation 212.00 (NGVD 1929) to elevation 226.00 (NGVD 1929) are included in the CCSWC.

**SOURCES:**

TAX ASSESSMENT MAP, DEERFIELD TOWNSHIP,  
 CUMBERLAND COUNTY, N.J. JUNE 1985

CURRENT ZONING MAP, DEERFIELD TOWNSHIP,  
 CUMBERLAND COUNTY, N.J., ADOPTED MARCH 6, 2002.

| NO.   | DATE | REVISIONS | BY   | CHECKED |
|---|------|-----------|--|---------|
|   |      |           |  |         |
| <b>CUMBERLAND COUNTY IMPROVEMENT AUTHORITY</b><br><br><b>LATERAL EXPANSION</b><br><br><b>CUMBERLAND COUNTY SOLID WASTE COMPLEX</b><br><b>DEERFIELD TOWNSHIP, NEW JERSEY</b>   |      |           |  |         |
| <b>VICINITY PLAN</b>  |      |           |  |         |
|  <b>ASSOCIATES</b><br>1256 N CHURCH STREET<br>MOORESTOWN, NJ 08057<br>TEL. 856-722-6700<br>FAX 856-722-0175<br>NEW JERSEY BOARD OF<br>PROFESSIONAL ENGINEERS AND<br>LAND SURVEYORS<br>CERTIFICATE OF AUTHORIZATION<br>GA 276897 |      |           | <b>DAVID W. MUNION</b><br><i>David W. Munion</i><br>LICENSED PROFESSIONAL ENGINEER<br>STATE OF NEW JERSEY LICENSE NO. 32490<br>DESIGNED BY: JM<br>DRAWN BY: JDH<br>CHECKED BY:<br>FIELD BK. #<br>PROJECT NO. C01A00020 |         |
| DRAWING   |      |           | <b>C3</b>  |         |
| SHEET   |      |           | <b>4</b> OF <b>27</b>  |         |



GRAPHIC SCALE



( IN FEET )  
1 inch = 200 ft

| NO. | DATE | REVISIONS | BY | CHECKED |
|-----|------|-----------|----|---------|
|     |      |           |    |         |

CUMBERLAND COUNTY IMPROVEMENT AUTHORITY

LATERAL EXPANSION  
CUMBERLAND COUNTY SOLID WASTE COMPLEX  
DEERFIELD TOWNSHIP, NEW JERSEY

SITE PLAN

**T&M**  
ASSOCIATES  
1256 N. CHURCH STREET  
MOORESTOWN, NJ 08057  
TEL 856-722-6700  
FAX 856-722-0175

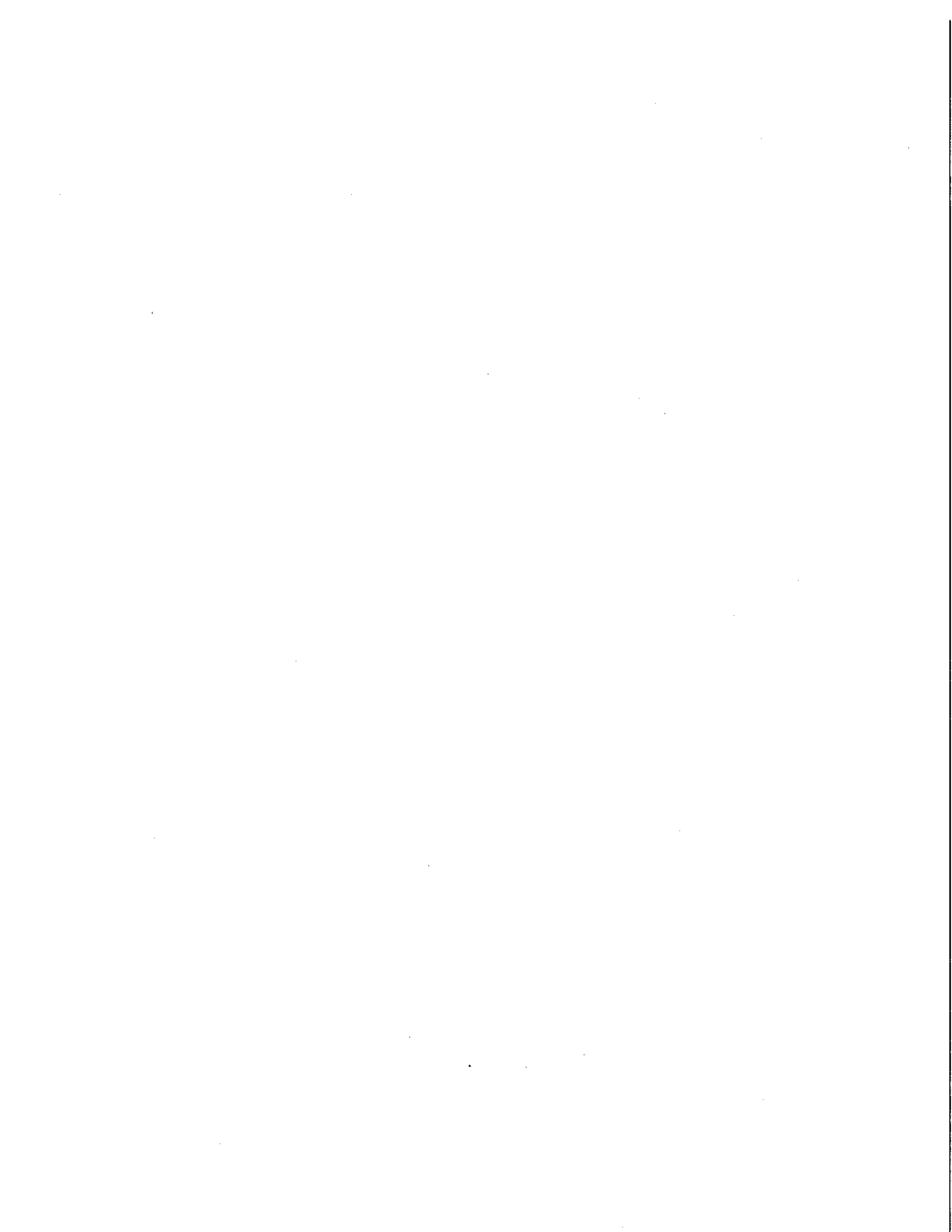
DAVID W. MUNION  
*David W. Munion*  
DATE: 4-17-05

DESIGNED BY: JM  
DRAWN BY: JMH  
CHECKED BY: JMH

NEW JERSEY BOARD OF  
PROFESSIONAL ENGINEERS AND  
LAND SURVEYORS  
CERTIFICATE OF AUTHORIZATION  
CA 276807

LICENSED PROFESSIONAL ENGINEER  
STATE OF NEW JERSEY LICENSE No. 32490  
PROJECT NO. CCA00020  
FILE NO.

DRAWING: C4  
SHEET: 5 OF 27





## 4.0 FACILITY INFRASTRUCTURE IMPROVEMENTS/REPLACEMENT

### 4.1 Purpose and Background

As indicated in section 3.1 vigorous county wide recycling programs and volume additions to the existing landfill footprint of 75.5 acres made possible by changes in the regulatory requirements and changes in landfill technology, have extended the life of the landfill into the year 2017, or approximately 10 years more than originally anticipated. The lateral expansion proposed in Section 3.0 will add approximately 10 additional years to the landfill life. This 20 year added life necessitates that certain aging infrastructure originally designed to accommodate operations at the Solid Waste Complex through the year 2007, be replaced and/or modified as follows:

#### 4.1.1 Convenience Center

The convenience center as originally designed consisted of an elevated, paved area where residents residing within 5 miles of the landfill, and not having municipal collection, could bring their solid waste and recyclables for disposal. The convenience center was approximately 1,600 square feet in area and held three roll-off containers (two for solid waste and one for recyclables). Deerfield Township residents delivering their solid waste and recyclables by car or pick-up trucks deposited their waste or recyclables into the appropriate container.

The convenience center was later opened to other county residents delivering self generated waste to the Solid Waste Complex in vehicles not registered by NJDEP to haul solid waste, as these vehicles are prohibited by NJDEP regulations from depositing their waste at the working face of the landfill.

During the construction of Phase V of the landfill the convenience center was expanded and two additional roll-off containers were added to accommodate non-Deerfield Township residents delivering self generated solid waste to the landfill. In addition, businesses that are regular customers and deliver their waste in NJDEP registered haulers with solid waste vehicles having a gross vehicle weight less than 8,000 pounds and are no longer exempt from the

registration requirements, are permitted to use the convenience center during periods of inclement weather due to difficulties in negotiating their vehicles to the working face of the landfill.

It is to be pointed out that registered solid waste vehicles having a gross vehicle weight less than 8,000 pounds generally consist of pick-up trucks or box trucks that must be unloaded by hand at the working face of the landfill. NJDEP regulations limit the daily operations to one working face no greater than 150 feet in width for landfills receiving 400 truck loads of waste per day (the Cumberland County Solid Waste Complex receives an average of approximately 175 loads per day) which requires that these smaller solid waste vehicles must be unloaded in close proximity much larger vehicles disposing of their waste and raises safety concerns.

Plan amendment No. 16 to the Cumberland County Solid Waste Management Plan, approved by the Commissioner of NJDEP on July 13, 2004 included a commingled recyclables and mixed paper transfer station that will consist of four (4) Transtor units (each unit consisting of two - 50 cubic yard automated containers). Collection vehicles delivering commingled recyclables and mixed paper will discharge the materials into the properly designated units from an elevated area. When the units are full they will be emptied into 100 cubic yard walking floor trailers. Commingled recyclables will be delivered to the Cape May County Intermediate Processing Facility (or to another processing facility if contractual arrangements change in the future) and mixed paper will be delivered to market/brokers.

It is the intent to increase the size of the elevated area to accommodate a commercial convenience center, where all non Deerfield Township residents delivering self generated solid waste to the solid waste complex and businesses delivering solid waste in NJDEP registered vehicles having a gross vehicle weight less than 8,000 pounds will be permitted to deposit their waste in roll-off containers. As the roll-off containers are filled, they will be removed and emptied at the working face by operational personnel.

The construction and operation of this commercial convenience center in conjunction with the commingled recyclables and mixed paper transfer station will alleviate the safety concerns for the smaller, registered solid waste vehicles disposing of waste at the working face of the landfill, will

provide for a sufficient number of roll-off containers to allow for the continued expansion of recycling programs for cardboard, source separated concrete, metals, and clean wood.

#### 4.1.2 Access Road, Scales and Scalehouse

A new access road, scales and scalehouse are planned that will provide a more direct route to the commercial convenience center and to the proposed lateral expansion while still providing access to the older landfill cells. The original scalehouse and scales will be used as backup when the new facilities are undergoing preventive maintenance and/or repair.

These new facilities, in addition to providing more direct access for vehicles using the Commercial Convenience Center, Recyclables Transfer Station and the Landfill, will alleviate the traffic congestion in the vicinity of the Administration Building and provide for safer access to the Deerfield Township (original) Convenience Center, visitors to the Solid Waste Complex and future users of the Household Hazardous Waste/Special Waste Facility approved in Plan Amendment No. 16.

#### 4.1.3 New Equipment Storage and Maintenance Facility

Since the time of the original facility design, anticipated landfill equipment and support equipment needs to operate an estimated 350 ton per day landfill and recycling programs in the County have grown tremendously.

The original design of the equipment storage and maintenance facility, that is contiguous with the Administration Building, provided for a two bay, 4,500 square foot garage for the maintenance and/or storage of the following equipment:

##### LANDFILL (HEAVY) EQUIPMENT

- (1) steel wheeled landfill compactor
- (1) Track-type bulldozer
- (1) self propelled elevating scraper
- (1) wheeled front end loader

## SUPPORT EQUIPMENT

- (1) water truck for dust control
- (1) maintenance/lube truck
- (1) utility tractor with mower & sweeper attachments
- (1) pick up truck
- (1) dump truck
- (1) roll-off truck
- (5) roll-off containers
- (1) portable pump
- (1) portable generator
- (1) portable air compressor

The landfill and support equipment listed above was considered the minimum equipment requirements to meet the operational needs of the landfill and convenience center at the time of the original design and permitting of the solid waste complex.

It was soon recognized that duplicate (back-up) equipment was a necessity to keep the landfill operational, in accordance with the regulatory requirements, in the event of equipment breakdown.

This larger fleet of landfill equipment in conjunction with the equipment required for the recycling operations at the Material Separating Facility along with the growing fleet of support equipment necessary to service continually expanding solid waste and recycling programs implemented on behalf of the 14 municipalities within Cumberland County have rendered the original two bay storage/maintenance garage totally inadequate for its intended purpose. The current list of landfill and support equipment is as follows:

## LANDFILL (HEAVY) EQUIPMENT

- (2) steel wheeled landfill compactors
- (4) track-type bulldozers
- (2) self propelled elevating scraper
- (3) wheeled front end loader
- (1) backhoe/front-end loader
- (1) excavator

- (1) articulated dump truck
- (2) forklifts
- (3) skid steers
- (1) all terrain vehicle

#### SUPPORT EQUIPMENT

- (1) water truck for dust control
- (1) maintenance/lube truck
- (1) utility tractor with mower & sweeper attachments
- (7) pick up truck
- (1) dump truck
- (4) roll-off truck
- (5) tractors
- (8) walking floor trailers
- (2) tanker trailers
- (30) roll-off containers
- (1) all terrain mower
- (1) street sweeper
- (2) portable pump
- (1) portable generator
- (1) portable air compressor
- (1) wood chipper

A new 23,000 square foot equipment storage and maintenance facility consisting of four maintenance bays and seven equipment bays is proposed that will accommodate the present and future equipment storage and maintenance needs at the Cumberland County Solid Waste Complex.

#### 4.1.4 New Fueling Station

The existing fueling station located in the maintenance yard at the solid waste complex consists of one 2000 gallon above ground gasoline tank and pump and one 8000 gallon above ground diesel tank and pump. The tanks and pumps are situated such that access for fueling is limited to one vehicle at a time, and insufficient space exists for expanding the fueling area.

It is the intention to install a new fueling station to the north of the new equipment storage and maintenance facility that will allow for the fueling of

two vehicles at a time. In addition to providing for both gasoline and diesel tanks and pumps the new fueling station will be expandable to provide for a future "alternative fuel" tank and pump.

#### 4.1.5 Modification of Administration/Maintenance Building

The design of the original administration building at the solid waste complex anticipated a total of ten employees, including the facility manager and administrative support (as required). The design provided a men's lavatory approximately (120 square feet) that included one shower and six lockers. No shower facilities or lockers were provided for female employees. After the opening of the solid waste complex the men's locker facilities were expanded by approximately 280 square feet by converting a parts and tool storage and workshop area to a locker room.

A 104 square foot lunch room/break room originally provided for was also doubled in size in the early 1990's to accommodate the growing landfill staff.

Additional shower/locker facilities (210 sq. ft. men's facility and 210 sq. ft. ladies' facility) and a 275 sq. ft. lunch room/break room were provided for at the Material Separating Facility to accommodate the employees of that facility when it opened in 1989.

Since June of 2001, separation of commingled recyclables at the Material Separating Facility ceased. Commingled recyclables received at the facility are loaded into walking floor trailers and delivered to the Cape May County Intermediate Processing Facility. Mixed paper received at the facility is loaded and delivered to various markets. Employees of the Material Separating Facility have been reassigned to other jobs at the Solid Waste Complex.

At present the number of employees at the solid waste complex totals 30 (29 male and 1 female) and it is now essential to centralize employee facilities (reporting facilities, locker facilities and lunch/ break room). This will be accomplished by converting the existing men's lavatory into a women's shower/locker room; converting the existing men's locker room into a men's lavatory; converting one bay in the existing garage into a 920 sq. ft. men's shower/locker room and an 1180 sq. ft. lunch room/break room. The existing

lunch room/ break room will be converted into two offices and a second floor will be provided above the new men's shower/locker room and new lunch room/break room. This second story area will initially be utilized for records storage and will provide for future expansion as needed.

These modifications to the Administration/Maintenance Building will be constructed after the construction of the new equipment storage and maintenance facility has been completed.

#### 4.1.6 Modification of Existing Administrative and Personnel Facilities at the Material Separating Facility

Upon completion of the modifications to the Administration/Maintenance Building, the administration offices on the second floor of the Material Separating Facility will be converted into a public education center and employee training center capable of handling large groups. Primary access will be via the interior stairway; however, a second, exterior, covered stairway will be constructed as required by code for emergency egress. In conjunction with this exterior, covered stairway a chairlift will be installed to provide access to the facility for the handicapped.

On the first floor the existing lunch room/break room will be converted into a supervisor's office, the existing locker rooms will be converted to storage area for educational materials and the existing lavatory facilities will be renovated.

As approved in Plan Amendment No. 16, the tire shredding operation will be relocated into the Material Separating Facility in the area that once housed the commingled recyclables sorting equipment.

#### 4.1.7 Improvements to the Leachate Collection, Pretreatment and Load-out/Pumping Facilities

To accommodate the present and future leachate flows, the following improvements are required to the leachate collection, pretreatment, and load-out/pumping facilities:

- The decommissioning and filling of leachate storage lagoon No. 1 that is no longer being utilized.
- The replacement of Lift Station B with a new lift station having a greater wet well capacity and greater pumping capacity.
- The replacement of the existing load-out facilities with facilities capable of loading multiple trucks simultaneously and to provide pumping capabilities for leachate recirculation.
- The replacement of the 4 inch in 8 inch double walled FRP influent pipe to the pretreatment facility with a 8 inch in 14 inch double walled HDPE influent pipe.
- Replacement of the pumps and controls in the Cell 4 Pump-house.
- Replace recycle pumps in the leachate pretreatment facility.

#### 4.1.8 Bioreactor Landfill

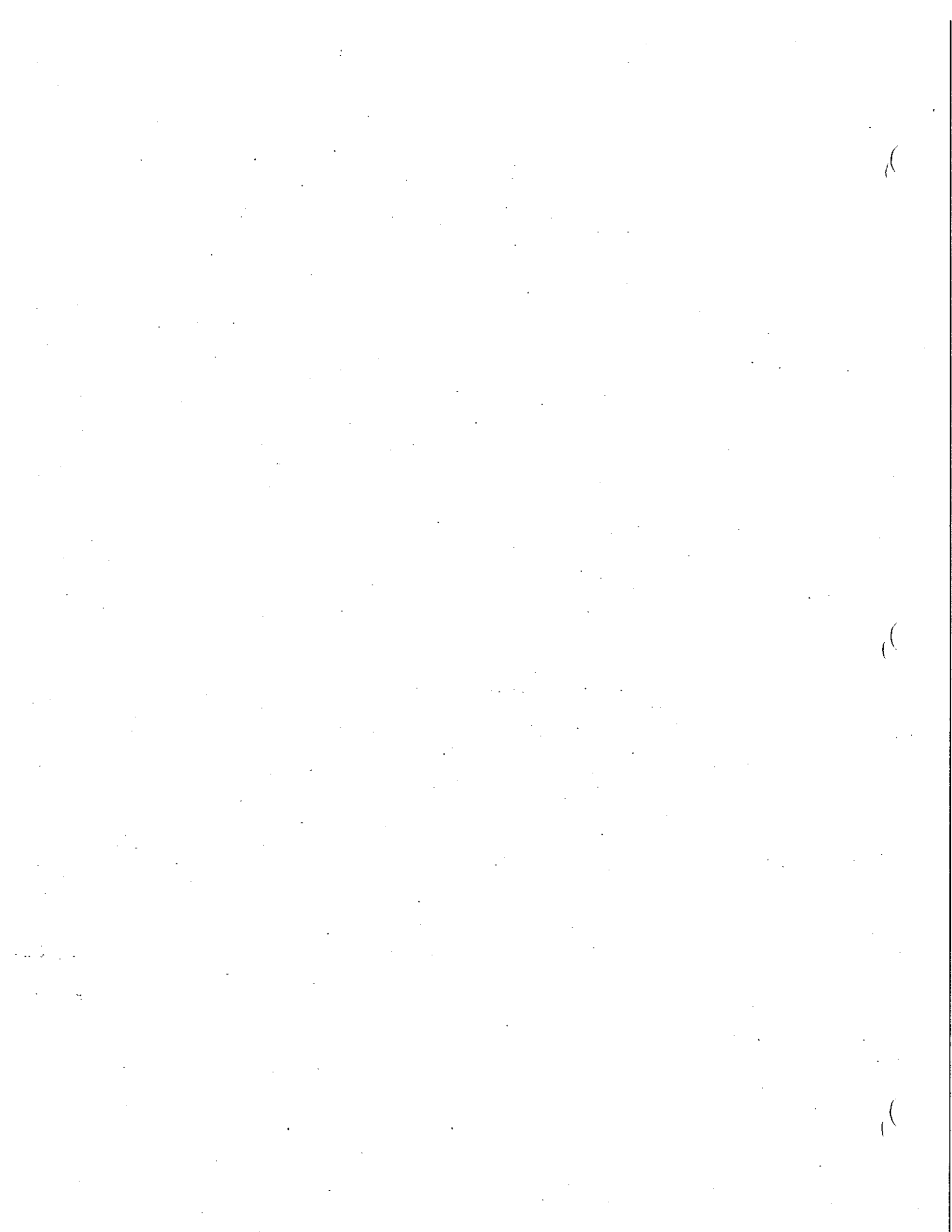
A Certificate of Authority to operate a Research, Development and Demonstration (RD & D) Project was issued to the Cumberland County Improvement Authority by The New Jersey Department of Environmental Protection, Division of Solid Waste. Under the RD & D project, side by side aerobic and anaerobic bioreactor landfill cells will be constructed and operated at the Cumberland County Solid Waste Complex. The project will be closely monitored to determine the efficiencies and benefits of the two technologies in the degradation and stabilization of solid waste, determining the effect of each system on landfill gas production by capturing and monitoring the releases from both systems.

Upon completion of the RD & D Project the Cumberland County Improvement Authority would request a permit modification to allow the use of one or both technologies on a continuous basis.



#### 4.2 The Plan

Upon adoption of this Plan Amendment 18 by the Cumberland County Board of Chosen Freeholders and its approval by the Commissioner of NJDEP, the facility infrastructure improvements/replacement identified in 4.1.1 through 4.1.8 above, are included in the CCSWC



## 5.0 REMOVAL OF FEDERAL DISPOSAL, INC. FROM THE CUMBERLAND COUNTY SOLID WASTE MANAGEMENT PLAN AS AN APPROVED CLASS A/CLASS B RECYCLING CENTER AND MATERIALRECOVERY/SOLID WASTE TRANSFER STATION

### 5.1 Purpose and Background

On January 24, 2000, Federal disposal, Inc. applied for inclusion in the Cumberland County Solid Waste Management Plan as a Class A / Class B Recycling Center and Material Recovery / Solid Waste Transfer Station. The proposed facilities were to be located at the southwesterly corner of West Chestnut Avenue and Mill Road (Block 515) Lot 2 in the City of Vineland and were subsequently included in the Cumberland County Solid Waste Management Plan by Plan Amendment No. 15, approved by the Cumberland County Board of Chosen Freeholders on May 11, 2000 and certified by the Commissioner of the New Jersey Department of Environmental Protection (NJDEP) on October 9, 2000.

On September 28, 2000, NJDEP received an application from Federal Disposal for the proposed Class B Recycling Center General Approval.

On January 4, 2001, Federal Disposal, Inc. was issued a "Notice of Administrative Incompleteness" by NJDEP, for eleven deficiencies and numerous additional items that were not included in the application package.

On March 11, 2002, NJDEP denied Federal Disposal, Inc.'s application for a Class B Recycling Center General Approval on the following grounds

- Federal Disposal, Inc, failed to submit any of the information required pursuant to N.J.A.C. 7:26A-3.12(a)1.
- As determined by the Department, Federal Disposal, Inc, failed to correct any of deficiencies in information submitted within 45 days of receipt of a letter detailing said deficiencies pursuant to N.J.A.C. 7:26A-3.12(a)3.
- Pursuant to N.J.A.C. 7:26A-3.12(a)5 Federal Disposal, Inc, failed to submit the appropriate fee required pursuant to N.J.A.C. 7:26A-2.

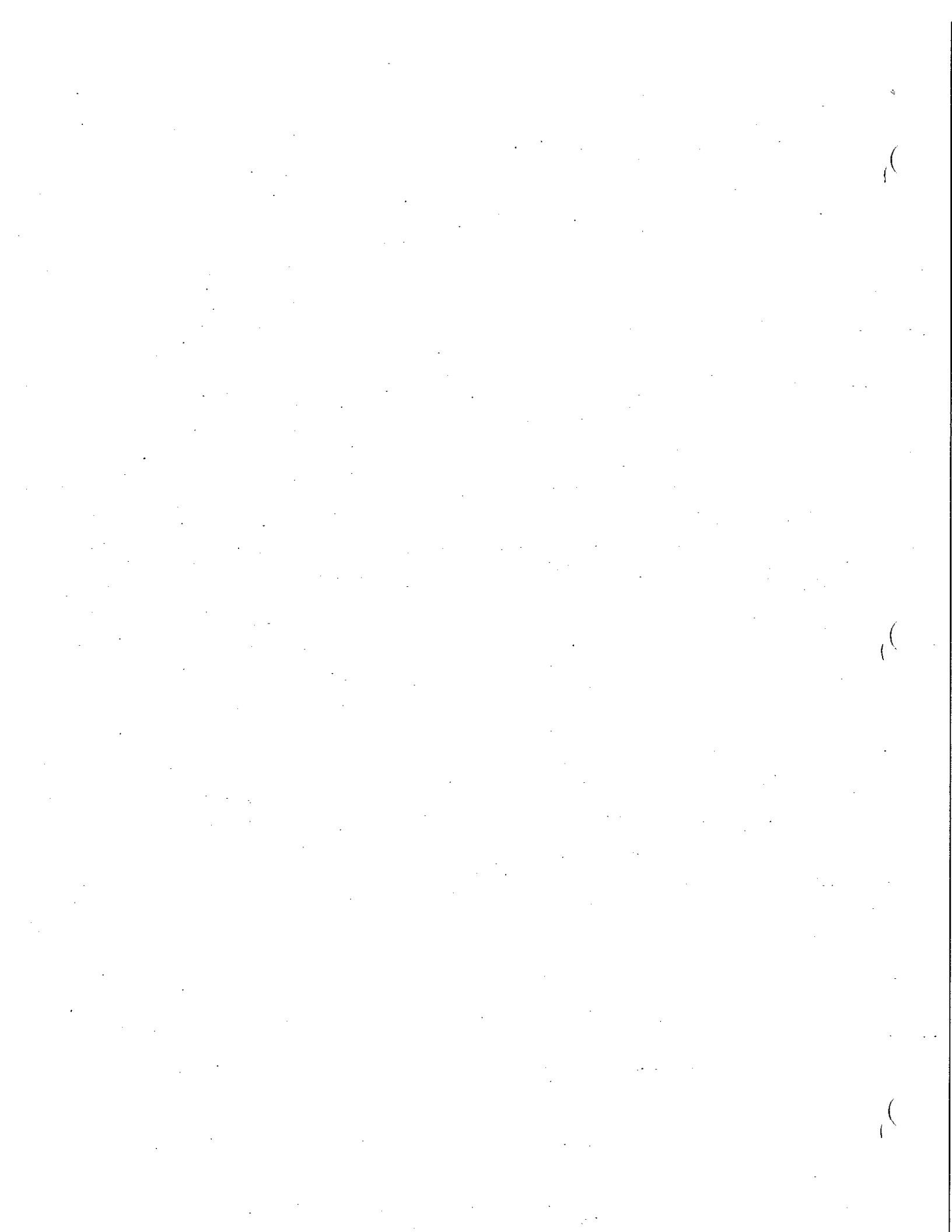
Subsequent to the denial of their application for a Class B Recycling Center General Approval, there has been no further activity on the part of Federal Disposal, Inc. to obtain a Class B Recycling Center General Approval nor has there been any activity on the part of Federal Disposal, Inc. to obtain a permit for the construction and operation of a Material Recovery / Solid Waste Transfer Station.

## 5.2 The Plan

Upon adoption of this Plan Amendment 18 by the Cumberland County Board of Chosen Freeholders and its approval by the Commissioner of NJDEP, The Class A / Class B Recycling Center and a Material Recovery / Solid Waste Transfer Station to be located at the southwesterly corner of West Chestnut Avenue and Mill Road (Block 515, Lot 2) in the City of Vineland as proposed by Federal Disposal, Inc. is hereby removed from the Cumberland County Solid Waste Management Plan.

# **APPENDIX A**

Plan Amendment No. 17 Certification





State of New Jersey

Department of Environmental Protection  
PO Box 402  
Trenton, NJ 08625-0402

Richard J. Codey  
Acting Governor

Bradley M. Campbell  
Commissioner  
Tel. # (609) 292-2885  
Fax # (609) 292-7695

AUG 10 2005

Honorable Douglas M. Rainear, Director  
Cumberland County Board of Chosen Freeholders  
County Administration Building  
790 East Commerce Street  
Bridgeton, NJ 08302

Dear Freeholder Director Rainear:

Enclosed please find the certification of the solid waste management plan amendment which the Cumberland County Board of Chosen Freeholders adopted on March 10, 2005; The amendment which proposed County Plan inclusion of Nature's Choice Corporation located at Block 905, Lot 6, in Upper Deerfield Township as a Class B recycling facility, is approved.

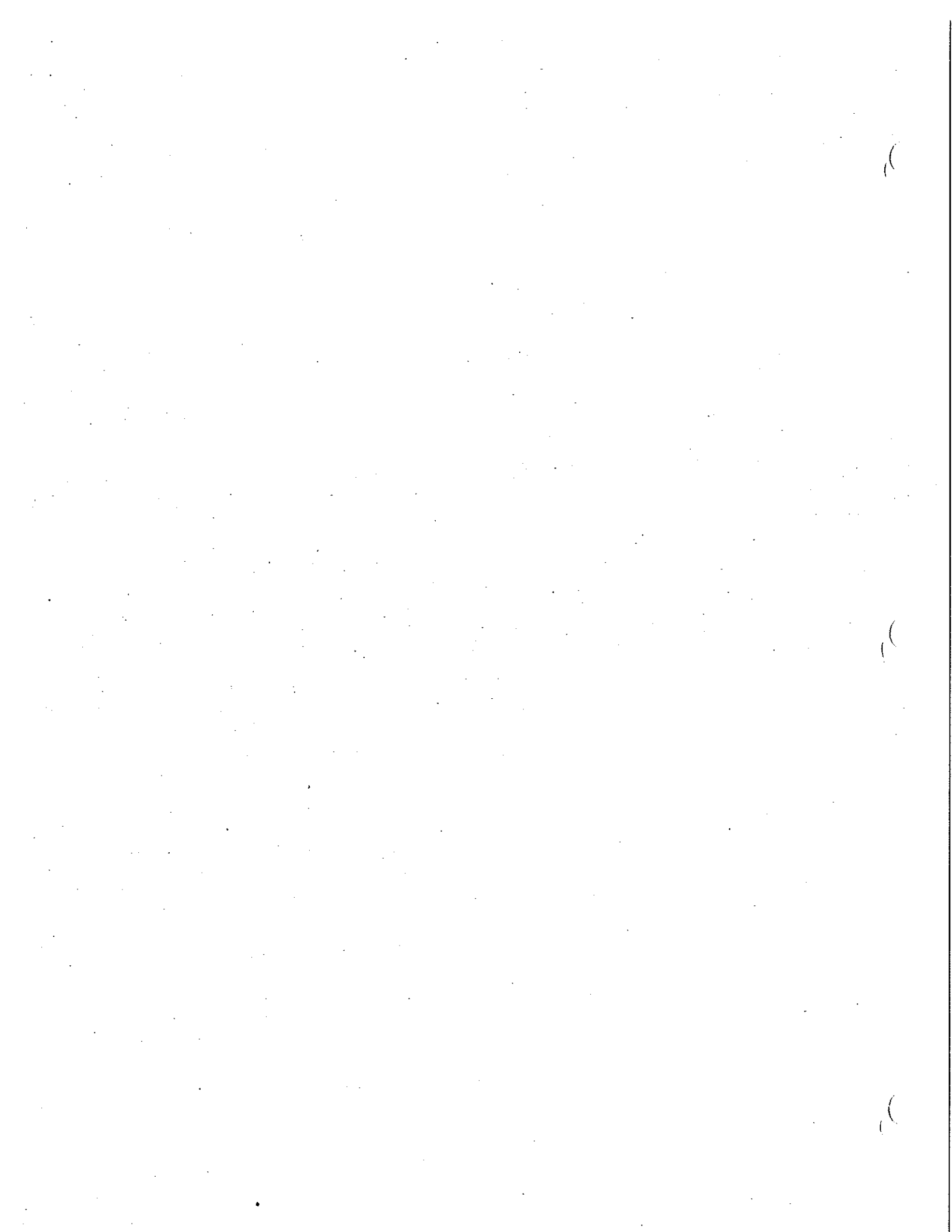
We appreciate the efforts of the Freeholder Board, the Cumberland County Solid Waste Advisory Council, and elected officials and citizens instrumental in the formulation of the district's solid waste management plan amendment.

Sincerely,

Bradley M. Campbell  
Commissioner

Enclosure

RECEIVED  
AUG 12 2005







State of New Jersey

Department of Environmental Protection

Richard J. Codey  
Acting Governor

Bradley M. Campbell  
Commissioner

IN THE MATTER OF CERTAIN AMENDMENTS  
TO THE ADOPTED AND APPROVED SOLID  
WASTE MANAGEMENT PLAN OF THE  
CUMBERLAND COUNTY SOLID WASTE  
MANAGEMENT DISTRICT

CERTIFICATION  
OF THE MARCH 10, 2005  
AMENDMENT TO THE CUMBERLAND COUNTY  
DISTRICT SOLID WASTE MANAGEMENT PLAN

BY ORDER OF THE COMMISSIONER:

A. Introduction

The New Jersey Solid Waste Management Act (N.J.S.A. 13:1E-1 et seq.) established a comprehensive system for the management of solid waste in New Jersey. The Act designated all twenty-one (21) of the state's counties, and the Hackensack Meadowlands District, as Solid Waste Management Districts, and mandated that the Boards of Chosen Freeholders and the Hackensack Meadowlands Development Commission (now the New Jersey Meadowlands Commission) develop comprehensive plans for waste management in their respective districts. On May 13, 1980, the Department of Environmental Protection (Department or DEP) approved, with modifications, the Cumberland County District Solid Waste Management Plan (County Plan).

The Act requires that all district plans be based on and accompanied by a report detailing the existing waste disposal situation in the district, and a plan which includes the strategy to be followed by the district in meeting the solid waste management needs of the district for a ten-year planning period. The report must detail the current and projected waste generation for the district, inventory and appraise all facilities in the district, and analyze the waste collection and transportation systems which serve the district. The disposal strategy must include the maximum practicable use of resource recovery techniques. In addition to this strategy, the plan must designate sufficient available suitable sites for the disposal of the district's waste for a ten-year period.

The Act further provides that a district may review its County Plan at any time and, if found inadequate, a new County Plan must be adopted. The Cumberland County Board of Chosen Freeholders (County Freeholders) completed such a review and on March 10, 2005, adopted an amendment to its approved County Plan.

The March 10, 2005 amendment proposes County Plan inclusion of Nature's Choice Corporation located at Block 905, Lot 6, in Upper Deerfield Township, Cumberland County as a Class B recycling facility.

The amendment was considered administratively complete for review by the Department on April 6, 2005 and copies were distributed to various administrative review agencies for review and comment, as required by law. The Department has reviewed this amendment, and has determined that the amendment adopted by the County Freeholders on March 10, 2005 is approved as provided in N.J.S.A. 13:1E-24.

**B. Findings and Conclusions with Respect to the Cumberland County District Solid Waste Management Plan Amendment**

Pursuant to N.J.S.A. 13:1E-24a(1), I have studied and reviewed the March 10, 2005 amendment to the County Plan according to the objectives, criteria, and standards developed in the Statewide Solid Waste Management Plan and I find and conclude that the amendment is consistent with the Statewide Solid Waste Management Plan. In this regard, the County Freeholders are notified of the issues of concern relative to the March 10, 2005 amendment which are included below.

In conjunction with the review of the amendment, the Department circulated copies to seventeen administrative review agencies and solicited their review and comment. Pursuant to N.J.S.A. 13:1E-24a(2) and (3), these agencies included various bureaus, divisions, and agencies within the Department. All agencies contacted are as follows:

- Division of Water Quality, DEP
- Division of Parks and Forestry, DEP
- Division of Fish and Wildlife, DEP
- Division of Solid and Hazardous Waste, DEP
- Office of Local Environmental Management, DEP
- Office of Air Quality Management, DEP
- Green Acres Program, DEP
- Land Use Regulation Program, DEP
- Bureau of Solid Waste Compliance and Enforcement, DEP
- New Jersey Turnpike Authority
- New Jersey Advisory Council on Solid Waste Management
- Pinelands Commission
- Department of Agriculture
- Department of Health and Senior Services
- Department of Transportation
- Department of Community Affairs
- U.S. Environmental Protection Agency

## Elements of the March 10, 2005 Amendment

### **Background**

On May 8, 1986, the County adopted an amendment to include Emerald Grow Products, Inc. as a Class C recycling center within the County Plan. This amendment was certified as approved by the Department on October 9, 1986. In 2003, Emerald Grow Products, Inc. was acquired by Nature's Choice Corporation.

The March 10, 2005 amendment proposes County Plan inclusion of Nature's Choice Corporation as a Class B recycling facility for the receipt, storage, processing, and/or transfer of whole trees, tree trunks, tree parts, tree stumps, brush, and untreated pallets. The March 10, 2005 amendment did not specify any capacity limitations for the proposed facility, therefore, the facility's capacity limitations will be determined during the Department's general approval process for the Class B recycling center.

### **State Level Review Comments**

As noted above, the Department circulated the amendment to various state level review agencies for their review and comments. The Department's Division of Fish and Wildlife (DFW) commented that the project site is forested and, as such, Landscape Mapping (version II) indicates that the site is suitable habitat for barred owl (state-threatened), Cooper's hawk (state-threatened), five (5) bird species of priority concern (i.e. gray catbird, eastern towhee, red-eyed vireo, wood thrush, Carolina chickadee), one (1) herptile of priority concern (i.e. eastern box turtle), and is within a bald eagle nest buffer.

Pursuant to N.J.A.C. 7:26A-3.2(a) 9., a site plan map is required to be submitted to the Department as part of the application procedure for general approval for the receipt, storage, processing or transfer of Class B recyclable material. The site plan shall, among other things, "delineate the floodplain as defined at N.J.A.C. 7:13-1.2", and "delineate the incidence of wetlands, New Jersey Pinelands, prime agricultural lands, historic sites (where applicable) and other environmentally sensitive areas". Therefore, DFW recommends an assessment for verification of the presence of those Endangered Species noted above.

In response, the concerns of the Department's Division of Fish and Wildlife, regarding the possible impact of the proposed site upon wildlife resources are noted to the County. However, as noted above, these concerns will be addressed in detail as part of the Department's general approval process for this proposed Class B recycling center.

### **Regulatory Requirements**

If any operation of a recycling center will discharge pollutants as defined in N.J.A.C. 7:14-1.9, said operation must secure a New Jersey Pollutant Discharge Elimination System Permit and/or a

Treatment Works Approval for pollutant discharges prior to operation.

Recycling centers are subject to the provisions of N.J.A.C. 7:27-5, "Prohibition of Air Pollution". This regulation prohibits the release of odors and other air contaminants which interfere with the enjoyment of life and property.

**C. Certification of the Cumberland County District Solid Waste Management Plan Amendment**

In accordance with N.J.S.A. 13:1E-1 et seq., specifically N.J.S.A. 13:1E-21, which establishes specific requirements regarding the contents of the county solid waste management plans, I have reviewed the March 10, 2005 amendment to the approved County Plan and certify to the County Freeholders that the March 10, 2005 amendment is approved as further specified below.

The County Plan inclusion of Nature's Choice Corporation located at Block 905, Lot 6, in Upper Deerfield Township, Cumberland County, as a Class B recycling facility for the receipt, storage, processing, and/or transfer of whole trees, tree trunks, tree parts, tree stumps, brush, and untreated pallets is approved, with the requirement noted in (B) above.

This certification shall not be construed as an expression of the Department's intent to issue a recycling center approval to any recycling center for Class B materials. A recycling center approval shall only be issued where the applicant has submitted an administratively complete application, as per N.J.A.C. 7:26A-3.5, where all the substantive criteria for approval set forth in N.J.A.C. 7:26A-3.2, 3.3, and 3.4 are satisfied, where a fee has been paid in accordance with N.J.A.C. 7:26A-2, and where none of the criteria for denial of a recycling center approval are met, as per N.J.A.C. 7:26A-11 and 12.

Pursuant to N.J.A.C. 7:26A-4.1(a)1.iii., Class B recyclable materials may be commingled only with other Class B recyclable materials and only to the extent authorized in the Department's general approval.

**D. Other Provisions Affecting the Plan Amendment**

**1. Contracts**

Any contract renewal or new contract for solid waste collection or disposal which is inconsistent with this amendment to the County Plan and which was executed prior to the approval of this amendment and subsequent to the effective date of the Solid Waste Management Act (July 29, 1977), and which shall further be for a term in excess of one year, shall immediately be renegotiated in order to bring same into conformance with the terms and provisions herein set forth. Any solid waste collection operation or disposal facility registered by the Department and operating pursuant to a contract as herein described, shall be deemed to be in violation of this amendment and of the County Plan if such renegotiation is not completed within ninety (90) days

of the effective date of this amendment provided, however, that any such registrant may, upon application to the Department, and for good cause shown, obtain an extension of time to complete such renegotiation.

2. Compliance

All solid waste facility operators and transporters registered with the Department and operating within the County and affected by the amendment contained herein shall operate in compliance with this amendment and all other approved provisions of the County Plan. Any facility operator or transporter who fails to comply with the provisions contained herein shall be deemed to be in violation of N.J.S.A. 13:1E-1 et seq., in violation of N.J.A.C. 7:26-1 et seq., and in violation of their registration to operate a solid waste facility or a collection system issued thereunder by the Department and shall be subject to the provisions and penalties of N.J.S.A. 13:1E-9 and 12 and all other applicable laws.

3. Types of Solid Wastes Covered by the County Plan

The provisions of the County Plan shall apply to all solid wastes defined in N.J.S.A. 13:1E-3 and N.J.A.C. 7:26-2.13 including waste types 10, 13, 23, 25, and 27 and all applicable subcategories and shall not apply to liquid and hazardous wastes. All nonhazardous materials separated at the point of generation for sale or reuse are subject to regulation in accordance with N.J.A.C. 7:26A-1 et seq.

4. Certification to Proceed with Implementation of Amendment

This document shall serve as the certification of the Commissioner of the Department to the County Freeholders and pursuant to N.J.S.A. 13:1E-24c. and f., the County Freeholders shall proceed with the implementation of the approved components of the amendment certified herein.

5. Definitions

For the purpose of this amendment and unless the context clearly requires a different meaning, the definitions of terms shall be the same as those found at N.J.S.A. 13:1E-3 and -99.12, N.J.A.C. 7:26-1.4, -2.13, and N.J.A.C. 7:26A-1.3.

6. Effective Date of Amendment

The approved components of the amendment to the County Plan contained herein shall take effect immediately.

7. Reservation of Authority

Nothing contained herein shall be construed as a limitation on any other action taken by the Department pursuant to its authority under the law. The County Plan, including any amendment made thereto, shall conform with the Statewide Solid Waste Management Plan, with appendices, which includes the Department's planning guidelines, rules, regulations, orders of the Department, and also includes the compilation of individual district plans and amendments as they are approved.

E. Certification of Approval of the Amendment by the Commissioner of the Department of Environmental Protection

In accordance with the requirements of N.J.S.A. 13:1E-1 et seq., I hereby approve the amendment, as outlined in Section C. of this certification, to the Cumberland County District Solid Waste Management Plan which was adopted by the Cumberland County Board of Chosen Freeholders on March 10, 2005.

August 8, 2005  
Date

Bradley M. Campbell  
Bradley M. Campbell, Commissioner  
Department of Environmental Protection