AMENDMENT #28
TO THE CUMBERLAND COUNTY
SOLID WASTE MANAGEMENT PLAN

Cumberland County Improvement Authority
745 Lebanon Road
Millville, NJ 08332

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1.0 INTRODUCTION

The County of Cumberland proposes to amend the Cumberland County Solid Waste Management Plan (SWMP 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 any time 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, twenty-seven (27) amendments to the SWMP have been adopted and approved by the Commissioner.

The purpose of the twenty-eighth (28th) amendment to the Cumberland County Solid Waste Management Plan is as follows:

1. To expand the existing permitted landfill solid waste footprint both horizontally (Cell 10) and vertically (to a maximum elevation of 250) at the Cumberland County Solid Waste Complex into the Cumberland County Solid Waste Management Plan.

To ensure the broadest possible participation by the general public in this Plan Amendment process, the Cumberland County Commissioners have scheduled a public hearing on Tuesday, October 13th at 6:00 P.M. at 164 W. Broad Street, Bridgeton. All County residents, public officials or organizations interested in Amendment No. 28 to the SWMP are encouraged to attend and offer testimony.

Copies of Plan Amendment No. 28 are available for review at:

- The office of the Cumberland County Improvement Authority, located at 745 Lebanon Road, Millville, NJ 08332
- The office of the County Clerk, located at 164 W. 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 Commissioners
164 West Broad Street
Bridgeton, NJ 08302

or

Cumberland County Improvement Authority
745 Lebanon Road
Millville, NJ 08332

2.0 SUMMARY OF CUMBERLAND COUNTY SOLID WASTE MANAGEMENT PLAN

The Cumberland County Solid Waste Management Plan (SWMP) 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 (the 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:

Amendment No.	Date of Amendment	NJDEP Approval	Purpose of Amendment
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 Nos. 4 and 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 expanded use of RRIT funds for MSF operating costs.
9	June 9, 1992	September 18, 1992; November 17, 1992	Revise RRIT fund disbursement schedule; include additional recycling centers located in the County; address recommendations of the NJDEP Emergency Solid Waste Assessment Task Force Final Report; and include a blanket inclusion policy for recycling centers.
10	April 14, 1994	August 15, 1994	Response to the Governor's Emergency Solid Waste Assessment Task Force in the areas of recycling, enforcement, education, and source reduction. Plan for debris disposal from the demolition of the County Manor.
11	December 15, 1994	April 27, 1995	Expands Amendment No. 10 to include procurement practices, a household hazardous waste collection program, and collection of recyclables. Delays construction of the bulky waste recycling facility described in Amendment No. 8 and includes a Class "B" recycling center in the County Plan.
12	June 22, 1995	August 3, 1995	Inclusion of a Class "B" recycling center in the County Plan.
13	April 10, 1997	August 5, 1997	Revise RRIT fund disbursement schedule and delete construction of the bulky waste recycling facility from the County Plan (see Amendment No. 11).
14	January 15, 1998	April 24, 1998	Response to the May 1, 1997, decision of the U.S. Court of Appeals for the Third Circuit, which declared New Jersey's historic system of solid waste flow control unconstitutional.

Amendment No.	Date of Amendment	NJDEP Approval	Purpose of Amendment
15	May 11, 2000	October 9, 2000	Revised solid waste disposal strategy; increased the permitted disposal capacity of the Cumberland County Solid Waste Complex (CCSWC) landfill; added Block 76, Lots 18 and 19, and portions of Lots 2, 3, and 4 in Deerfield Township to the existing permitted CCSWC landfill site to provide additional buffer and stormwater detention; added Kennedy Concrete, Inc., in the City of Vineland as a Class "B" Recycling Center for the recycling of concrete; and added Federal Disposal, Inc., in the City of Vineland as a Class A/Class B Recycling Facility and a Material Recovery/Solid Waste Transfer Station.
16	August 2003 (Rev. October 2003)	July 13, 2004	Leaf Composting Facility and Permanent Household Hazardous Waste Collection Facility at the Cumberland County Solid Waste Complex. 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. 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.
17	February 2005	August 10, 2005	Includes Nature's Choice as a Class "B" Recycling Facility located on Block 905, Lot 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.

Amendment No.	Date of Amendment	NJDEP Approval	Purpose of Amendment
18	November 2005	April 26, 2006	Includes a lateral and vertical expansion of the landfill; new commercial convenience center; new access roads, scales, and scale house; new equipment storage and maintenance facility; new diesel and gasoline fueling station; modifications to the administration/maintenance facility to accommodate employee needs; modifications to the Material Separating Facility to house a public education and employee training center; improvements to leachate collection, pretreatment, and load-out facilities; and an aerobic/anaerobic bioreactor RD&D project. Removes Federal Disposal from the County Solid Waste Management Plan.
19	October 25, 2007	April 25, 2008	2007 Update of the Cumberland County Solid Waste Management Plan in response to the requirements of the Statewide Solid Waste Management Plan Update.
20	April 7, 2008	August 5, 2008	Adds Thompson's Paving, Inc., as a Class "B" Recycling Facility for the receipt, processing, and/or transfer of whole trees, tree trunks, tree parts, tree stumps, brush, untreated pallets, and untreated wood; and for the receipt, storage, processing, and/or transfer of concrete, brick, and block. Provides for the inclusion of renewable energy projects and potential greenhouse gas reduction projects at the Cumberland County Solid Waste Complex.
21	April 26, 2011	July 7, 2011	Reinstates solid waste flow control within Cumberland County and designates the Cumberland County Solid Waste Complex as the designated disposal facility for all solid waste types 10, 13, 13C, 23, 25, 27, and 27A generated within Cumberland County.

Amendment No.	Date of Amendment	NJDEP Approval	Purpose of Amendment
22	October 22, 2013	May 8, 2014	Deletion of Casie Ecology Oil Salvage, Inc., Class "D" Recycling Facility (Casie), and Mid-Atlantic Recycling Technology Class "B" Recycling Facility from the Cumberland County Solid Waste Management Plan.
23	December 22, 2015	October 24, 2016	Add a Class "B" Recycling Facility for the Cumberland County Solid Waste Complex.
24	December 22, 2015	October 20, 2018	AMP New Jersey, LLC, and Energy 3 LLC upgrade the existing gasification facility to accept up to 99 tons of solid waste.
25	September 27, 2016	April 10, 2017	Correct an omitted volume that was inadvertently missed in the calculation for the vertical and lateral expansion that was part of Amendment No. 18.
26	August 28, 2018	March 6, 2019	Remove certain language relating to the out-of-state disposal of Cumberland County-generated, non-recyclable solid waste.
27	August 19, 2019	March 11, 2020	Add a Class "B/C" Recycling Facility at the Cumberland County Solid Waste Complex.

3.0 PURPOSE AND BACKGROUND

In accordance with the original Cumberland County Solid Waste Management Plan (SWMP), 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 (the Authority) constructed and is operating a regional sanitary landfill known as the Cumberland County Solid Waste Complex (CCSWC). The CCSWC 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 permits have been issued to Facility 133530 beginning December 31, 1990 with the most current operating permit issued February 2, 2023 expiring February 2, 2028.

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, landfill gas management, a tire shredding operation, an administration building, 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 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 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.

Plan Amendment No. 18 authorized the Phase VI Development of the landfill, consisting of the expanding into Cells 7, 8, and 9.

The proposed Plan Amendment No. 28 requests approval for the Phase VII expansion, which includes the development of Cell 10 through both horizontal and vertical expansion of the existing landfill footprint. The proposed expansion will extend the useful life of this critical County solid waste management facility by providing additional disposal capacity for many years to come.

Figure 1 presents a drawing that illustrates the proposed expansion area and the final grades provided by Cell 10. Cell 10 is proposed within immediately to the north of the existing landfill and is within the currently permitted Solid Waste Permit Boundary. The approximately 10-acre area will be constructed as a lined municipal solid waste disposal cell, allowing landfill operations to be extended into the new disposal area. Stormwater management facilities displaced by construction of Cell 10 will be accommodated by the use of the currently permitted Basin I-109 in accordance with applicable NJDEP stormwater requirements.

As part of the horizontal expansion of the landfill footprint, the proposed final landfill grades will also increase. The maximum permitted landfill elevation is proposed to increase from the currently approved elevation of 227.5 feet to 250 feet above mean sea level, an increase of 22.5 feet.

The proposed expansion will continue to utilize engineered landfill liner systems, leachate collection, landfill gas management, stormwater controls, groundwater monitoring, and environmental protection measures consistent with applicable NJDEP regulations.

Based on an average annual disposal rates as presented in the 2026 Annual Topographic Survey Report (which reflects the landfill volume remaining for the aerial flight date at the end of 2025), the Site has an existed permitted landfill volume projected to provide disposal capacity through approximately 2040.

The proposed Cell 10 expansion is estimated to provide approximately 3.91 million cubic yards (gross) of waste disposal capacity. Applying the same annual disposal rate and in-place waste density assumptions used for the current capacity estimate, Cell 10 is expected to provide an additional 12 years of disposal capacity beyond the currently projected landfill life, extending the closure date to approximately 2052.

The proposed expansion is necessary to maintain uninterrupted disposal capacity for Cumberland County-generated solid waste and to continue implementation of the County Solid Waste Management Plan. Without this expansion, available disposal capacity would be exhausted by approximately 2043, requiring reliance on alternative disposal facilities prior to completion of long-term planning efforts.

The proposed expansion:

- maintains long-term disposal capacity;
- supports continued implementation of the County SWMP;
- maximizes use of an existing permitted solid waste facility;
- avoids development of a new landfill site;
- utilizes existing infrastructure and environmental control systems.

Amendment No. 28 revises the Cumberland County Solid Waste Management Plan to include:

- horizontal expansion of the permitted landfill through construction of Cell 10.
- increase in maximum permitted landfill elevation from 227.5 feet to 250 feet.
- inclusion of expanded landfill footprint per the drawing in Figure 1.

Approval of this amendment does not authorize construction or operation of the proposed expansion. The expansion remains subject to all applicable NJDEP permitting requirements, including modification of the Solid Waste Facility Permit.

4.0 PLAN

Upon adoption by the Cumberland County Board of Commissioners and certification by NJDEP, Amendment No. 28 shall revise the Cumberland County Solid Waste Management Plan to:

- include the Phase VII horizontal expansion (Cell 10).
- increase the maximum permitted landfill elevation to 250 feet.
- recognize the additional disposal capacity associated with the expansion.
- incorporate revised mapping contained in Figure 1.

FIGURE 1

EXPANSION SITE PLAN

NOTES:

1. BASE MAP TAKEN FROM FRALINGER ENGINEERING DRAWING "2019 LANDFILL TOPOGRAPHIC SURVEY" PREPARED FOR CUMBERLAND COUNTY IMPROVEMENT AUTHORITY DATED MARCH 2024.
2. ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL DATUM (NOTE: "MEAN SEA LEVEL DATUM" REFERS TO THE NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929/1988). A SITE SPECIFIC COORDINATE SYSTEM IS USED FOR THE HORIZONTAL DATUM.
3. THIS SHEET WAS ORIGINALLY PRODUCED AS A COLOR DRAWING. NON-COLOR REPRODUCTIONS DO NOT SUFFICIENTLY DIFFERENTIATE AMONG FEATURES DEPICTED ON THIS DRAWING.

LEGEND

- EXISTING GROUND SURFACE ELEVATION CONTOURS (FT.)
- EXISTING PAVED ROAD
- EXISTING UNPAVED ROAD
- EXISTING STORMWATER BASIN
- EXISTING BUILDING
- EXISTING UTILITY POLE
- OE — OE — EXISTING OVERHEAD ELECTRIC
- UE — UE — EXISTING UNDERGROUND ELECTRIC
- FM — FM — EXISTING FORCEMAIN
- EXISTING FENCELINE
- EXISTING TREELINE
- EXISTING WATERCOURSE
- EXISTING DITCH/CHANNEL
- EXISTING DROP INLET
- EXISTING CULVERT
- EXISTING CELL BOUNDARY
- EXISTING PROPERTY BOUNDARY
- PROPOSED FINAL CONTOURS
- PERMIT FINAL CONTOURS
- PROPOSED STORMWATER CHANNEL
- FM — FM — PROPOSED FORCEMAIN
- PROPOSED ACCESS ROAD

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No.	Revision	Date	By

scale:	1" = 150'
date:	10/10/2025
project no.	250106I7
designed	KS
checked	BSA
drawn	SEH
graphic scale	0 150 300 450 SCALE IN FEET

drawing title: EXPANSION SITE PLAN

project title: CUMBERLAND COUNTY SOLID WASTE COMPLEX
CUMBERLAND COUNTY IMPROVEMENT AUTHORITY

DEERFIELD TOWNSHIP,
CUMBERLAND COUNTY, NEW JERSEY

FIGURE 1

This drawing, its contents, and each component of this drawing are the property of and proprietary to ARM Group LLC and shall not be reproduced or used in any manner except for the purpose identified on the Title Block, and only by or on behalf of this client for the identified project unless otherwise authorized by the express, written consent of ARM Group LLC.

K:\Cumberland County IA\Improvement Authority\250106I7 Landfill Expansion 25\2510Eng\Permitting\Drawing\Set\250106I7-SHP_Fig-1 Final Grade Plan.DWG dwg, Plotted: October 15, 2025