

SOLID WASTE MANAGEMENT PLAN

MARSHALL COUNTY, ALABAMA

Prepared on Behalf of:



Marshall County Commission
424 Blount Avenue, Suite 305
Guntersville, Alabama 35976

Prepared By:



101 Quality Circle NW, Suite 130
Huntsville, Alabama 35806

TTL Project Number 240503125.00

June 17, 2025

TABLE OF CONTENTS

1.0 Introduction 1

 1.1 Background..... 1

 1.2 Purpose of the Solid Waste Management Plan..... 1

 1.3 Goal of the Solid Waste Management Plan..... 1

2.0 SWMP Jurisdiction, Planning Period, and Implementation 2

 2.1 SWMP Jurisdiction..... 2

 2.2 Planning Period 2

 2.3 Methodology 2

 2.4 Data Collection Surveys 3

 2.5 Implementation 3

 2.6 County Commission Resolution..... 3

3.0 Definitions of Commonly Used Terms..... 3

4.0 Participating Municipalities 5

 4.1 Participating Municipalities 6

 4.2 Non-Participating Municipalities 6

 4.3 Local and Municipal Approval of Solid Waste Facilities and Services 6

 4.4 Population Estimates 6

5.0 Origin and Volume of Solid Waste Generation 7

 5.1 Statute Requirement..... 7

 5.2 Basis for Generation Estimates..... 7

 5.3 Municipal Solid Waste Generation..... 8

 5.4 Commercial Waste Generation 9

 5.5 Construction/Demolition Waste Generation 11

 5.6 Industrial Waste Generation..... 12

 5.7 Special Waste 13

 5.8 Medical Waste 13

 5.9 Disaster Debris 14

6.0 Solid Waste Collection and Transportation 14

 6.1 Statute Requirement..... 14

 6.2 Waste Collection by Jurisdiction 14

 6.3 Bulky/Yard Waste..... 16

 6.4 Construction/Demolition Solid Waste..... 16

 6.5 Commercial and Industrial Solid Waste..... 16

6.6	Special Waste	17
6.7	Medical Waste	17
7.0	Existing Disposal Facilities.....	17
7.1	Statute Requirement.....	17
7.2	Municipal Solid Waste Landfills	17
7.3	Solid Waste Transfer Stations	20
7.4	Industrial Landfills.....	20
7.5	Construction and Demolition Landfills.....	21
7.6	Composting Facilities	22
7.7	Incinerators.....	22
7.8	Medical Waste	22
7.9	Recycling Centers.....	22
8.0	Current and Planned Recycling Programs	22
8.1	Statute Requirement.....	22
8.2	General	23
8.3	Current Municipal Recycling Programs.....	23
8.4	Private Industry Recycling Programs.....	24
8.5	Planned Recycling Programs	25
8.6	Joint Ventures.....	25
8.7	Benefits of Recycling.....	25
9.0	RCRA Subtitle D Requirements	25
9.1	Statute Requirement.....	25
9.2	General	25
9.3	Jurisdictional Actions	26
10.0	Illegal Dumps.....	26
10.1	Statute Requirement.....	26
10.2	Identification of Illegal Dumps.....	26
10.3	Elimination of Illegal Dumps.....	26
10.4	Prevention of Illegal Dumps.....	27
11.0	Solid Waste Growth Projections	27
11.1	Statute Requirement.....	27
11.2	Historic Perspective.....	27
11.3	Estimation Methodology	27
11.4	Waste Generation Projections	29

11.5 Variables That May Affect Generation Rate Estimates	30
12.0 Expansion of Solid Waste Management Systems.....	31
12.1 Statute Requirement.....	31
12.2 Capacity Assurance	32
12.3 Future Solid Waste Disposal Options.....	32
12.4 Total Cost for Solid Waste Handling and Facilities.....	32
12.5 Zoning Considerations	33
12.6 Local Economic and Population / Development Estimates	33
12.7 Protection of Air, Water and Natural Resources.....	33
13.0 Contractual Agreements for Joint Ventures.....	34
13.1 Statute Requirement.....	34
13.2 Current Agreements	34
13.3 Future Agreements	34
14.0 Private Collection, Processing and/or Disposal Contracts	34
14.1 Statute Requirement.....	34
14.2 Contracts With Private Contractors	34
14.3 Evaluation of Need for Future Joint Agreements.....	35
15.0 Location Potential for Disposal Facilities and Recycling Programs	35
15.1 Statute Requirement.....	35
15.2 General.....	35
15.3 Specific Requirements and Considerations	35
15.4 Siting for Future Facilities	37
16.0 Utilizing Solid Waste Facilities Outside Marshall County.....	37
16.1 Statute Requirement.....	37
16.2 Facility Use Outside of County	37
17.0 Approval Protocol For Solid Waste Facilities	37
18.0 Public Participation	37
18.1 Public Participation	38

APPENDICES

- Appendix A – Marshall County Commission Resolution Adopting the SWMP
- Appendix B – Noble Hill Landfill Solid Waste Disposal Facility Permit
- Appendix C – Sand Valley Landfill Solid Waste Disposal Facility Permit
- Appendix D – Arab C/D Landfill Solid Waste Disposal Facility Permit
- Appendix E – Guntersville Landfill Solid Waste Disposal Facility Permit
- Appendix F – Natural Disaster Debris Management Information

1.0 INTRODUCTION

The Alabama Solid Waste Disposal Act, Code of Alabama 1975, 22-27-047 (revised in 2008 and referred to as the Solid Wastes and Recyclable Materials Management Act - SWRMMA), requires local governments to develop a Solid Waste Management Plan (SWMP) for the management of solid waste generated within the local governing authority boundaries. Each County plan is required to include the municipal jurisdictions within its boundaries, except for those municipalities that choose to develop their own SWMP for implementation within their municipal limits. Municipalities that choose to develop their own SWMP may be excluded from the host county's plan.

The SWMP is required to address how solid waste facilities and services are managed in the local jurisdiction by addressing all items required by the Alabama Solid Wastes Disposal Act. This requirement also calls for each county to periodically re-submit a ten-year Plan Update for the management of all solid waste generated in the county.

1.1 Background

Marshall County completed its first Solid Waste Management Plan in 1990, *Marshall County Comprehensive Ten Year Solid Waste Management Plan, November 1990*. This plan was updated in 2004 (*Marshall County Solid Waste Management Plan Update, September 2004*) and again in 2014 (*Marshall County, Alabama Solid Waste Management Plan, 2014*).

TTL, Inc. (TTL) was retained by the Marshall County Commission in 2024 to review the *2014 Marshall County Solid Waste Management Plan* and prepare the required update.

1.2 Purpose of the Solid Waste Management Plan

The purpose of Marshall County's Solid Waste Management Plan is to develop a plan for the management of solid waste within Marshall County (County) by addressing various aspects of solid waste management such as generation, collection, transportation, disposal, recycling, and composting.

1.3 Goal of the Solid Waste Management Plan

The goal of the Marshall County Solid Waste Management Plan (Marshall County SWMP) is to achieve the following:

- Allow the citizens and local governments within Marshall County to realize their responsibility in effective solid waste management.
- To ensure local governments are properly planning for future needs by assessing long term solid waste disposal capacity and ensuring its adequacy to serve the public needs.
- To educate the County and local governments about requirements that pertain to solid waste management.
- To ensure that solid waste management policies are enacted in order to satisfy regulatory requirements and to ensure the efficient use of economic and land resources.

2.0 SWMP JURISDICTION, PLANNING PERIOD, AND IMPLEMENTATION

2.1 SWMP Jurisdiction

The Marshall County SWMP applies to the area located within the boundary of Marshall County. Marshall County encompasses 623 square miles and is bordered to the north by Jackson and Madison Counties, to the east by DeKalb County, to the south by Blount and Etowah Counties, and to the west by Cullman and Morgan Counties. Municipalities and jurisdictions located within Marshall County and subject to this SWMP include the City of Albertville, City of Arab, City of Boaz, Town of Grant, City of Guntersville, Town of Union Grove, Town of Douglas, and unincorporated Marshall County.

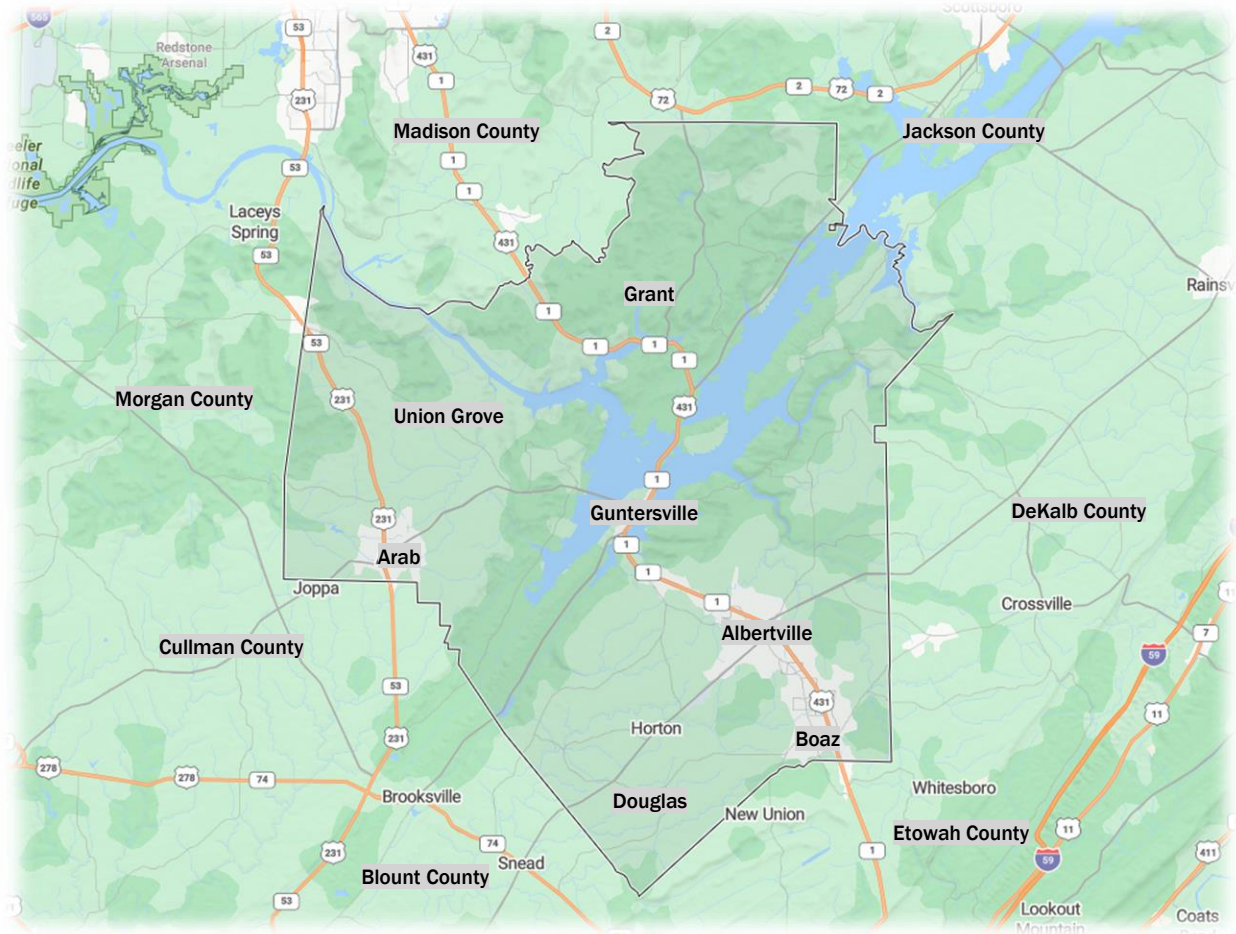


Figure 1 – Marshall County Map

2.2 Planning Period

The governing body of a county or municipality has the responsibility to ensure the proper management of solid waste generated within its jurisdiction in accordance with its SWMP. The solid waste projections and recommendations contained herein are valid for the period from 2025 through 2035.

2.3 Methodology

Preparation of this update of the Marshall County SWMP included:

- Review of the 2014 *Marshall County Solid Waste Management Plan Update*
- Identification of cities and incorporated areas to be included in the SWMP

- Location and identification of existing solid waste facilities including landfills, transfer stations, recycling centers, etc.
- Evaluation of growth patterns and development potential within the study area
- Review of Alabama Department of Environmental Management (ADEM) Administrative Code 335-13 and Alabama Code 22-27-47
- Review of 1990, 2000, 2010, and 2020 census population data
- Formal data collection and personal interviews with Marshall County personnel, personnel with participating municipalities, contract haulers, and private solid waste facility owners and operators.

2.4 Data Collection Surveys

To collect the information needed to update the Marshall County SWMP, surveys were sent to each municipality or jurisdiction within Marshall County. Surveys were also sent to solid waste collectors/haulers and recycling centers. Phone interviews were conducted with permitted landfills and transfer stations located in or serving Marshall County. Follow-up emails and phone calls were made to those individuals or facilities that did not respond to the initial survey or to obtain additional information for incomplete responses.

2.5 Implementation

Implementation of the SWMP will include a 30-day period of public comment and a public hearing for comments and discussion. Notice of the time and place of the hearing will be given by publication in a newspaper of general circulation in the area and in the official publication, if any, of the jurisdiction. The notice will be given at least 30 days in advance but not more than 45 days in advance of the proposed date of the hearing. The notice will contain a description of the SWMP, its relevancy and compliance with the Laws of Alabama and the general goals of the plan. All pertinent documents will be available for inspection during normal business hours at a location readily accessible to the public.

2.6 County Commission Resolution

This Marshall County SWMP will be adopted through a resolution by the Marshall County Commission prior to submittal to the Alabama Department of Environmental Management as required by Alabama Law. A copy of the Resolution will be included in Appendix A.

3.0 DEFINITIONS OF COMMONLY USED TERMS

A list of terms commonly used in the field of solid waste management is included for general information:

Buy-Back Center - A facility to which individuals bring recyclables in exchange for payment.

Commercial Waste - Waste materials originating in wholesale, retail, institutional, or service establishments, such as office buildings, stores, markets, theaters, hotels and warehouses.

Commingled Recyclables - Two or more recyclable materials collected together (i.e. not separated). In some collection programs, recyclable materials may be commingled as long as they do not contaminate each other. For example, glass and plastic can be commingled, but glass and oil cannot.

Composting - The controlled biological decomposition of organic solid materials under aerobic conditions.

Construction/Demolition (C/D) or Inert Landfill – An area of land or an excavation that receives construction/demolition waste and or rubbish and/or water treatment sludge and foundry waste meeting ADEM Rule 335-13-4-26(3), and that is not a land application unit, surface impoundment, or injection well as defined by ADEM Adim Code r.335-13-1-.03.

Construction and Demolition (C/D) Waste - Materials resulting from the construction, remodeling, repair, or demolition of buildings, bridges, pavements, and other structures.

Drop-Off Collection - A method of collecting recyclable or compostable materials in which the materials are taken by individuals to collection sites, where they deposit the materials into designated containers.

Garbage - Putrescible animal and vegetable waste resulting from handling, preparation, cooking and consumption of food, including but not limited to, waste from markets, storage facilities, handling and sale of produce and other food products, and excepting such materials that may be services by garbage grinders and handled as household sewage.

Hazardous Waste - Those wastes defined in, and regulated under, Division 14 of the ADEM Administrative Code.

Household Waste - Any solid waste, including but not limited to, garbage, trash, and sanitary waste in septic tanks derived from households.

Incinerator - A facility in which solid waste is combusted.

Industrial Landfill - An area of land or an excavation that received industrial waste and may receive construction/demolition waste and/or rubbish.

Industrial Solid Waste - Solid waste that is generated from discarded materials from industrial operations or derived from manufacturing processes that is not a Hazardous Waste.

Illegal or Unauthorized Dump - Any collection of solid wastes either dumped or caused to be dumped or placed on any public or private property, whether or not regularly used, and not having a permit from ADEM. Abandoned vehicles, large appliances or similar large items of solid waste shall be considered as forming an unauthorized dump as recognized in ADEM Code 335-13. The littering of smaller individual items such as tires, bottles, cans, and the like shall not be considered an unauthorized dump unless the accumulation of the solid waste poses a threat to human health or the environment.

Medical Waste - A solid waste or combination of solid wastes which, because of its infectious characteristics, may either cause or significantly contribute to an increase in mortality, an increase in serious irreversible or incapacitating reversible illness, or pose a substantial present hazard or potential hazard to human health or the environment when improperly treated, stored, transported, disposed, or otherwise managed.

Municipal Solid Waste (MSW) - Non-hazardous solid waste generated by households, commercial establishments, and institutions within a municipal area.

Recycling - The process by which materials, otherwise destined for disposal, are collected, reprocessed, or remanufactured, and are reused.

Residential Waste - Waste generated in single- and multiple-family homes.

Roll-Off Container - A large waste container that fits onto a tractor trailer that can be dropped off and picked up hydraulically.

Rubbish – Nonputrescible solid wastes consisting of both combustible and noncombustible wastes. Combustible rubbish includes paper, rags, cartons, wood, furniture, rubber, plastics, and similar materials. Noncombustible rubbish includes glass, crockery, metal cans, metal furniture, and the like which will not burn at temperatures less than 1600-degree Fahrenheit.

Solid Waste - Any garbage, refuse, sludge from a wastewater treatment plant, water supply treatment plant, or air pollution control facility and other discarded material, including solid, liquid, semi-solid, or contained gaseous material resulting from industrial, commercial, mining, and agricultural operations, and from community activities.

Solid Waste Management - The systematic control of solid waste including its storage, processing, treatment, disposal, or recovery of materials from solid waste.

Source Reduction - The design, manufacture, acquisition, and reuse of materials so as to minimize the quantity and/or toxicity of waste produced. Source reduction prevents waste either by redesigning products or by otherwise changing societal patterns of consumption, use, and waste generation.

Special Waste - Wastes requiring specific processing, handling, or disposal techniques as determined necessary by the Department which are different from the techniques normally utilized for handling or disposal. Examples of such waste types may include, but are not limited to: mining waste, fly ash, bottom ash, sludges, friable asbestos, industrial waste, liquid waste, large dead animals or large quantities of dead animals and residue, medical waste, foundry waste, petroleum contaminated wastes, municipal solid waste ash, or contaminated soil and water from the cleanup of a spill.

Subtitle D - The solid, nonhazardous waste section of the Resource Conservation and Recovery Act (RCRA) of 1976.

Tipping Fee - A fee charged for the unloading or dumping of material at a landfill, transfer station, recycling center, or waste-to-energy facility, usually stated in dollars per ton. (Sometimes called a disposal or service fee.)

Transfer Station - A permanent facility where waste materials are taken from smaller collection vehicles and placed in larger vehicles for transport, including truck trailers, railroad cars, or barges. Recycling and some processing may also take place at transfer stations.

White Goods - Large household appliances such as refrigerators, stoves, air conditioners, and washing machines.

Yard Trimmings - Leaves, grass clippings, prunings, and other natural organic matter discarded from yards and gardens. Yard trimmings may also include stumps and brushes, but these materials are not normally handled at composting facilities.

4.0 PARTICIPATING MUNICIPALITIES

The governing body of a county or municipality (local government) has the responsibility to ensure the proper management of solid waste generated within its jurisdiction. The Alabama Solid Waste Disposal Act, Code of Alabama 1975, 22-27-047, requires local governments to develop solid waste management plans for the management of solid waste generated within the local governing authority boundaries. Each County plan is required to include the municipal jurisdictions within its boundaries (Participating Municipalities) except for those municipalities that elect to opt out of their County's SWMP and develop their own SWMP for implementation within the municipal limits. Municipalities that choose to develop their own SWMP may be excluded from the host county's plan.

Please note that for the purposes of this SWMP, the term municipality applies to cities, towns, and Unincorporated Marshall County.

4.1 Participating Municipalities

In addition to unincorporated areas, eight municipalities are located within Marshall County. These municipalities encompass a total of 86.3 square miles, representing approximately 15% of the County's total land area. Seven of the eight municipalities are included in the Marshall County SWMP. The seven participating municipalities are:

City of Albertville	Town of Grant
City of Arab	City of Guntersville
City of Boaz	Town of Union Grove
Town of Douglas	

4.2 Non-Participating Municipalities

One municipality within Marshall County, the Town of Sardis City, is not included in the Marshall County SWMP. A small portion of the Town of Sardis City is located in Marshall County; however, the majority of the Town of Sardis City is located in Etowah County; therefore, the Town of Sardis City is included in the Etowah County SWMP.

4.3 Local and Municipal Approval of Solid Waste Facilities and Services

In order to provide local approval of solid waste facilities and services within a jurisdiction, the local government must be subject to or covered by an approved SWMP. Unless a municipal government specifically elects to opt out of their County's SWMP, they are considered a participant in the County's Plan.

Participating municipal governments may grant local approval of solid waste management facilities and services within their municipal limits provided the municipality follows the requirements outlined in this SWMP that address local approval. If a participating municipality grants local approval for solid waste management facilities or services, the applying entity is not required to obtain approval from the Marshall County Commission.

4.4 Population Estimates

The current and future populations for Marshall County and participating municipalities were estimated by using the 2023 population estimate obtained from the Center for Business and Economic Research (CBER) at the University of Alabama, as a basis. The CBER data is based on the 2020 U.S. Census and reflects changes to the April 1, 2020, U.S. Census population due to the Count Question Resolution program, geographic program revisions, and the application of disclosure avoidance to protect confidentiality.

Population trends were estimated using the 2023 population estimate and calculated 2023 growth/decline rate obtained from the CBER. The CBER estimates are based on 2010 and 2020 U.S. Census data and reflect changes made to the 2020 population data due to the Count Question Resolution and Post-Census review and revision programs as of January 1, 2023. The 2023 CBER population growth rates were applied to the CBER 2023 populations for each municipality to calculate the estimated populations for 2024. This population data is used for per capita references throughout this SWMP. Table 4-1 summarizes Marshall County population information available through the United States Census Bureau and CBER.

Table 4-1 Marshall County Population Estimates

Municipality	2010 Census	2020 Census	2023 Estimated Population ¹	Projected Growth ¹	2024 Estimated Population
Albertville	21,160	22,386	23,031	2.9%	23,699
Arab	8,050	8,461	8,808	4.6%	9,213
Boaz	9,551	10,107	9,260	2.9%	9,529
Douglas	742	744	782	2.8%	804
Grant	884	896	1,057	1.6%	1,074
Guntersville	8,197	8,553	9,028	5.6%	9,534
Union Grove	77	77	71	1.4%	72
Unincorporated Marshall County	44,358	46,388	48,714	2.8%	50,078
Marshall County (Total)	93,019	97,612	100,751	3.2%	103,975

¹ Subcounty Resident Population Estimates: April 1, 2020 to July 1, 2023 (SUB-EST2023).
Source: U.S. Census Bureau, Population Division and the Center for Business and Economic Research at the University of Alabama. Release Date: May 2024

5.0 ORIGIN AND VOLUME OF SOLID WASTE GENERATION

5.1 Statute Requirement

Code of Alabama, Section 22-27-47(b) each plan shall at a minimum:

Describe and explain the general origin and weight or volume of solid waste currently generated within the jurisdiction's boundaries. For the purpose of this estimate, the jurisdiction may use such information as is reasonably available, or may use accepted methods of estimation recommended by the department;

5.2 Basis for Generation Estimates

To assist in determining solid waste generation rates, information was requested from each participating municipality on the type and volume of waste being collected within their jurisdiction, along with the population of those areas being served. Several of the participating municipalities did not respond to the initial request or follow-up inquiries and several provided only limited information.

Table 5-1 Population-Based Total Waste Generation Summary

Municipality	2024 Estimated Population	Collection Method/Agency	Waste Generation		
			TPY	TPD	PCD
Albertville	23,699	Meridian Waste	14,570 ³	39.9	3.4
Arab	9,213	Meridian Waste/Republic Services/In-House	9,085 ³	24.9	5.4
Boaz	9,529	Republic Services	11,301 ³	31.0	6.5
Guntersville	9,534	In-House/Republic Services	13,003 ³	35.6	7.5

Municipality	2024 Estimated Population	Collection Method/Agency	Waste Generation		
			TPY	TPD	PCD
Douglas	804	Republic Services	20,164 ¹	55.2	2.1
Grant	1,074				
Union Grove	72				
Unincorporated Marshall County	50,078				
Marshall County (Total)	103,975		68,123	186.6	3.6

NP – Response did not include waste collection/generation information

¹ Residential and commercial waste within their jurisdiction

² Residential waste only

³ Residential, commercial, industrial, C&D/brush waste within their jurisdiction

Of the participating municipalities that responded to the request for information, the City of Guntersville (Guntersville), the City of Arab (Arab), and the City of Boaz (Boaz) provide an in-house collection service. Guntersville provides weekly curbside garbage and recycling pickup to residents and businesses within the city limits. Arab provides monthly C/D waste, bulky waste, and brush pickup within the city limits. Boaz provides weekly bulky waste and brush pickup within the city limits. As noted in Table 5-1, the other participating municipalities contract private solid waste haulers for the collection, transport, and disposal of solid waste generated within their jurisdiction. These contractors typically collect solid waste in a large geographical area, regardless of municipal boundaries, and the waste from several municipalities may be commingled before being taken to a landfill for disposal. Additionally, residential waste may be commingled with commercial solid waste. For this reason, it is difficult to readily determine from private solid waste haulers what portion of solid waste was generated in a specific municipality or from a specific waste stream (residential or commercial).

5.3 Municipal Solid Waste Generation

Volume data of municipal solid waste (MSW) generation for participating municipalities was received from contractors and some local governments. Guntersville provides weekly residential and commercial pickup services to city residents and businesses. Guntersville collects residential and commercial waste in a single vehicle, commingling the waste streams. All other municipal solid waste collected in the County is collected by private collection services. According to the private waste haulers who responded to the request for information, solid waste is commonly collected from several municipalities and commercial establishments in a single vehicle. For this reason, it is difficult to readily determine separate volumes of household and commercial waste or determine what portion of the solid waste was generated in a specific municipality.

Based on the data obtained from individual municipalities and waste haulers, the total calculated annual MSW collection volume for Marshall County in 2024 was 56,383 tons. Using the estimated 2024 population for Marshall County and reported annual collection volume of 56,383 tons, the estimated 2024 generation rate for Marshall County is 3.0 pounds per capita per day (PCD).

Table 5-2 summarizes population-based waste generation based on collection information provided by the individual jurisdictions and contract waste haulers.

Table 5-2 Population-Based Municipal Solid Waste Generation Summary

Municipality	2024 Estimated Population	Total Waste Generation		
		TPY	TPD	PCD
Albertville	23,699	14,365	39.4	3.3
Arab	9,213	6,115	16.8	3.6
Boaz	9,529	7,813	21.4	4.5
Guntersville	9,534	7,926	21.7	4.6
Douglas	804	20,164	55.2	2.1
Grant	1,074			
Union Grove	72			
Unincorporated Marshall County	50,078			
Marshall County (Total)	103,975	56,383	154.5	3.0
Arab, Boaz, & Guntersville	28,276	21,854	59.9	4.2

Due to ambiguity in some of the waste collection data, the per capita municipal waste generation rate of 3.0 PCD is not considered an accurate estimation of county-wide per capita waste generation. The Cities of Guntersville, Arab, and Boaz have separate collection for C/D waste, bulky waste, and brush pickup. Therefore, collection data for Arab, Boaz, and Guntersville appears to be a more accurate representation of expected waste generation for the County. The per capita municipal waste generation rate of 4.2 PCD will be used as the basis in this SWMP for estimating future generation volumes for Marshall County.

A broad “check” of this approach was performed using data from the United States Environmental Protection Agency’s *National Overview: Facts and Figures on Materials, Wastes and Recycling*. The EPA estimates a gross MSW generation rate at 4.4 pounds per person per day in 2018.

5.4 Residential Waste Generation

The most widely used reference for allocating percentages of household and commercial waste in combined waste streams is the EPA document "Municipal Solid Waste in the United States: 2001 Facts and Figures". According to the EPA, when household and commercial wastes are commingled, it is estimated that household waste constitutes 55% to 65% of total MSW generation, with commercial waste constituting 35% to 45% of the total. For the purposes of this SWMP, household/residential solid waste will be estimated at 60% of the total MSW generation.

Table 5-3 Population-Based Residential Solid Waste Generation Summary

Municipality	2024 Estimated Population	Residential Waste Generation		
		TPY	TPD	PCD
Albertville	23,699	8,619	23.6	2.0
Arab	9,213	3,669	10.1	2.2
Boaz	9,529	4,688	12.8	2.7
Guntersville	9,534	4,756	13.0	2.7
Douglas	804	12,098	33.1	1.3
Grant	1,074			
Union Grove	72			
Unincorporated Marshall County	50,078			
Marshall County (Total)	103,975	33,830	92.7	1.8
Arab, Boaz, & Guntersville	28,276	13,113	35.9	2.5

Using the total reported annual MSW collection volume of 21,854 tons from Arab, Boaz, and Guntersville, the estimated net volume of MSW attributed to residential waste generation is 13,113 tons per year (TPY) and 2.5 PCD. **The per capita residential waste generation rate of 2.5 PCD for Arab, Boaz, and Guntersville is considered an accurate estimation of per capita residential waste generation and will be used in this SWMP for estimating future generation volumes for Marshall County.**

5.5 Commercial Waste Generation

Employing the same rationale as that used to calculate the portion of commingled waste allocated to residential waste generation, for the purposes of this SWMP, commercial solid waste will be calculated at 40% of the total solid waste generation.

Table 5-4 Population-Based Commercial Solid Waste Generation Summary

Municipality	2024 Estimated Population	Commercial Waste Generation		
		TPY	TPD	PCD
Albertville	23,699	5,746	15.7	1.3
Arab	9,213	2,446	6.7	1.5
Boaz	9,529	3,125	8.6	1.8
Guntersville	9,534	3,170	8.7	1.8
Douglas	804	8,066	22.1	0.8
Grant	1,074			
Union Grove	72			

Municipality	2024 Estimated Population	Commercial Waste Generation		
		TPY	TPD	PCD
Unincorporated Marshall County	50,078			
Marshall County (Total)	103,975	22,553	61.8	1.2
Arab, Boaz, & Guntersville	28,276	8,742	23.9	1.7

Using the total reported annual MSW collection volume of 21,854 tons from Arab, Boaz, and Guntersville, the estimated net volume of MSW attributed to commercial waste generation is 8,742 tons per year (TPY) and 1.7 PCD. **The per capita commercial waste generation rate of 1.7 PCD for Arab, Boaz, and Guntersville is considered an accurate estimation of per capita commercial waste generation and will be used in this SWMP for estimating future generation volumes for Marshall County.**

5.6 Construction/Demolition Waste Generation

Construction and demolition (C/D) wastes are typically generated by the construction, remodeling, repair, or demolition of structures, roads, sidewalks, utilities, etc. Other inert materials such as yard waste and storm debris (i.e. leaves, limbs, grass clippings) are also considered as C/D waste.

Table 5-5 C/D Waste Generation Summary

Municipality	2024 Estimated Population	C/D Waste Generation		
		TPY	TPD	PCD
Boaz	Response did not include C/D waste collection/generation information.			
Douglas				
Grant				
Union Grove				
Unincorporated Marshall County				
Albertville	23,699	3,281	9.0	0.8
Arab	9,213	799	2.2	0.5
Guntersville	9,534	5,652	15.5	3.2
Marshall County (Total)	103,975	9,732	26.7	0.5

Noble Hill Landfill is permitted to accept C/D waste along with municipal solid waste and industrial waste; however, they do not segregate C/D waste from other waste types and cannot distinguish the volume of waste they receive from Marshall County. According to information obtained from the Bureau of Transportation Statistics, part of the U.S. Department of Transportation, C/D waste accounted for approximately 23% of municipal solid waste disposed in the United States. Disposal volume data for the Noble Hill Landfill, obtained from the ADEM web-based E-file system, indicates that the total volume of in-state waste disposed of at the Noble Hill Landfill in 2024 was 287,255 tons. Using the

Bureau of Transportation Statistics estimate of 23%, approximately 66,069 tons of C/D waste was disposed at the Noble Hill Landfill.

The City of Arab and The City of Guntersville operate the only active, permitted C/D landfills in Marshall County. The Arab C/D Landfill was closed for the majority of the 2024 calendar year; therefore, the waste volumes reported being disposed at the Arab C/D Landfill in 2024 are not considered representative of typical annual waste volumes disposed at the landfill. The Guntersville Landfill only accepts C/D wastes generated within the city limits and was operational during the 2024 calendar year. The Guntersville Landfill reported approximately 37,680 cubic yards of waste disposed in 2024. This waste volume was reported to the ADEM in Volume Reports submitted by the City each quarter; therefore, the Guntersville Landfill volume data is considered an accurate estimate. Using a volume-to-weight conversion rate of 300 pounds for every 1 cubic yard of uncompacted C/D waste, the estimated volume of C/D waste disposed in the Guntersville Landfill in 2024 is 5,652 tons or 3.2 PCD.

Due to a lack of waste collection data for multiple municipalities and ambiguity in data received for Albertville and Arab, the calculated average per capita C/D waste generation rate of 0.5 PCD is not considered an accurate estimation of county-wide per capita C/D waste generation. The Guntersville Landfill only accepts C/D waste generated within the city limits and was operational during the 2024 calendar year; therefore, the estimated C/D waste generation rate of 3.2 PCD is considered to be a more accurate representation of expected C/D waste generation and will be used in this SWMP for estimating future C/D generation volumes for Marshall County.

5.7 Industrial Waste Generation

Table 5-6 Industrial Waste Generation Summary

Municipality	2024 Estimated Population	Industrial Waste Generation		
		TPY	TPD	PCD
Albertville	Response did not include industrial waste collection/generation information.			
Douglas				
Grant				
Union Grove				
Unincorporated Marshall County				
Arab	9,213	2,550	7.0	1.5
Boaz	9,529	3,488	9.6	2.0
Guntersville	9,534	5,077	13.9	2.9
Arab, Boaz, & Guntersville	28,279	11,115	30.5	2.2

Industrial waste refers to solid waste that is generated from discarded materials from industrial operations or derived from manufacturing processes. Solid waste generated by an industry may be collected by a private company and taken to an approved industrial landfill, or it may be collected by that industry and disposed of in their own landfill. The Mueller Company Industrial landfill is the only industry-owned landfill permitted in Marshall County. We understand this landfill is used exclusively by

the Mueller Company – Albertville Plant for disposal. This facility was not permitted to accept waste from the public.

Sand Valley Landfill is permitted to accept industrial waste along with municipal solid waste and C/D waste; however, they do not segregate industrial waste from other waste types and cannot distinguish the volume of industrial waste they receive from Marshall County.

Only one solid waste collection company responded to the request for information. Republic Services indicated in their response that industrial waste is collected from Arab, Boaz, and Guntersville. The industrial waste collected by Republic Services is taken to Republic Service's Marshall County Transfer Station in Albertville where it is then taken to Republic Service's Sand Valley Landfill in DeKalb County, Alabama for final disposal. **The per capita industrial waste generation rate of 2.2 PCD for Arab, Boaz, and Guntersville is considered an accurate estimation of per capita industrial waste generation and will be used in this SWMP for estimating future generation volumes for Marshall County.**

5.8 Special Waste

Special waste primarily consists of waste which is not regulated as hazardous waste and has physical and/or chemical characteristics that differ from all other household and commercial waste. Examples of Special Waste include asbestos, foundry waste, MSW ash, non-hazardous contaminated soil, sludges, and non-hazardous industrial waste. Special Waste may potentially require pre-treatment, special handling, and/or disposal authorization from the ADEM. Any special waste produced within Marshall County is to be managed and disposed of according to ADEM Regulation 335-13-4-.26.

Special wastes can be collected and transported to a MSW landfill by a municipality, county, business, or contract hauler. Various methods are used for the transport of Special Wastes but may involve dump trucks, roll-off containers, or appropriate containerization (i.e. drums) and transport in trucks or tractor trailers.

5.9 Medical Waste

Examples of Medical Waste include medical sharps, disposable masks, used bandages or dressings, test samples (blood, etc.), contaminated medical devices, empty IV bags, etc. These wastes are typically collected from medical and veterinary facilities, nursing homes, research laboratories and clinical laboratories. The storage, transportation, treatment, and disposal of medical waste produced within Marshall County must be in accordance with the ADEM Land Division – Medical Waste Program, Division 17.

If this waste is to be disposed of in a Subtitle D MSW landfill, it must first be incinerated or autoclaved prior to disposal. In Marshall County, most facilities that produce medical wastes do not have the means to pretreat waste, and instead, contract with specialized companies that collect and dispose of medical waste. Permitted medical waste treatment facilities are required to submit an annual report to ADEM reporting the volume of medical waste treated per year. County specific information regarding medical waste generation was not readily available from the ADEM.

According to information obtained from the ADEM Permitted Medical Waste Treatment Facilities List, there are no permitted medical waste treatment facilities in Marshall County. Although there are currently no permitted medical waste treatment facilities in Marshall County, medical facilities have the option to operate ADEM permitted autoclaves and other medical waste treatment devices at their respective facilities as part of this SWMP.

5.10 Disaster Debris

Debris from natural disasters may contain regulated and non-regulated solid wastes and special wastes. Regulated solid waste debris resulting from a natural disaster may include residential wastes and construction/demolition waste as defined in Admin. Code r. 335-13-1-.03. Special Wastes are defined in Admin. Code r. 335-13-1-.03 (134). Special Wastes resulting from a natural disaster may include, but are not limited to friable asbestos, industrial waste, large dead animals or large quantities of dead animals and residue, medical waste, or contaminated soil from the cleanup of a spill. Vegetative debris, including but not limited to stumps, logs, limbs, brush, and leaves are not considered regulated solid wastes. However, vegetative debris that contain regulated solid wastes or other Special Waste is considered regulated solid waste.

Regulated solid waste debris from a natural disaster should be removed from impacted areas and disposed of in accordance with applicable regulations.

The Federal Emergency Management Agency requires that all storm debris staging areas be pre-approved prior to placing storm debris at a staging location. County representatives should contact FEMA for approval in advance of staging storm debris. In addition, ADEM is to be made aware of these locations as they are approved by FEMA.

Vegetative debris that do not contain regulated solid waste do not require a permit by ADEM for staging or processing; however, vegetative debris disposal locations will be tracked by Marshall County officials and ADEM will be notified of all changes or additions to these sites as they occur.

Natural Disaster Debris Management Information is provided in Appendix F.

6.0 SOLID WASTE COLLECTION AND TRANSPORTATION

6.1 Statute Requirement

Code of Alabama, Section 22-27-47(b) each plan shall at a minimum:

Identify current methods of collection and haulage of solid waste within the jurisdiction;

6.2 Waste Collection by Jurisdiction

City of Albertville

The City of Albertville encompasses approximately 26.9 square miles and has an estimated 2025 population of 24,367. The City provides residential, commercial, C/D, brush, and bulk solid waste collection services to its citizens through a contract with Meridian Waste (Meridian). Meridian provides 95-gallon curbside carts for weekly residential waste collection. Wastes collected by Meridian within the City is disposed of at Noble Hill Landfill in Etowah County, Alabama. The City of Albertville also has a recycling program through the Albertville-Boaz Recycling Authority. The Recycling Authority provides weekly curbside recycling pickup for City residents and services recycling drop-off locations throughout the city. Recycling is taken to the Albertville-Boaz Recycling Center in Albertville for processing.

City of Arab

The City of Arab encompasses approximately 13.3 square miles and has an estimated 2025 population of 9,618. The City provides residential solid waste collection services to its citizens through a contract with Meridian. Meridian provides 95-gallon curbside carts for weekly residential waste collection. Republic Services provides commercial and industrial solid waste collection services to commercial and industrial facilities in Arab. Residential waste collected by Meridian within the City is

disposed of at Noble Hill Landfill in Etowah County. Commercial and industrial waste collected by Republic Services is taken to Republic Service's Marshall County Transfer Station in Albertville where it is then taken to the Sand Valley Landfill in DeKalb County, Alabama for final disposal. The City also performs monthly waste collection of C/D waste, bulky waste, and brush. These wastes are disposed of at the Arab C/D Landfill. The City of Arab does not have a recycling program.

City of Boaz

The City of Boaz encompasses approximately 14.6 square miles and has an estimated 2025 population of 9,797. The City provides residential, commercial, and industrial solid waste collection services to its citizens through a contract with Republic Services. Republic Services provides 95-gallon curbside carts for weekly residential and commercial waste collection. Waste collected by Republic Services is taken to Republic Service's Marshall County Transfer Station in Albertville where it is then taken to the Sand Valley Landfill in DeKalb County for final disposal. The City performs weekly curbside pickup of brush, yard waste, white goods, and bulky waste. Limbs collected by the City are incinerated at the City Shop located at 1120 College Avenue, Boaz, AL. Leaves, grass clippings, and other yard wastes are composted, and the resulting mulch is available to city residents. White goods and other bulky waste are placed in roll-off containers serviced by Republic Services. The City of Boaz also has two recycling drop off trailers at the City Shop. Recycling is picked up weekly by the Albertville-Boaz Recycling Authority and taken to the Albertville-Boaz Recycling Center for processing.

Town of Douglas

The Town of Douglas encompasses approximately 3.4 square miles and has an estimated 2025 population of 826. The Town provides residential and commercial solid waste collection services to its citizens through a contract with Republic Services. Republic Services provides 95-gallon curbside carts for weekly residential collection. Residential and commercial waste generated by Douglas is taken to Republic Service's Marshall County Transfer Station in Albertville where it is then taken to the Sand Valley Landfill in DeKalb County for disposal. The Town of Douglas does not have a recycling program.

Town of Grant

The Town of Grant encompasses approximately 1.9 square miles and has an estimated 2025 population of 1,091. The Town provides residential and commercial solid waste collection services to its citizens through a contract with Republic Services. Republic Services provides 95-gallon curbside carts for weekly residential collection. Residential and commercial waste generated by the Town of Grant is taken to Republic Service's Marshall County Transfer Station in Albertville where it is then taken to the Sand Valley Landfill in DeKalb County. The Town of Grant participates in drop-off cardboard and aluminum can recycling through the Albertville-Boaz Recycling Authority. Recycling is taken to the Albertville-Boaz Recycling Center in Albertville for processing.

City of Guntersville

The City of Guntersville encompasses approximately 25.6 square miles and has an estimated 2025 population of 10,039. The City provides weekly residential and commercial waste collection pickup services to residents and businesses within city limits. Residential and commercial waste collected by the City is taken to the Marshall County Transfer Station in Albertville before being transported to the Sand Valley Landfill in DeKalb County. The City also collects C/D waste, bulky waste, and brush weekly. These wastes are disposed at the Guntersville Landfill. The City also maintains a recycling program through the Guntersville Recycling Center. The Recycling Center performs weekly curbside recycling pickup to City residents and services recycling drop-off bins at the center.

Town of Union Grove

The Town of Union Grove encompasses approximately 0.6 square miles and has an estimated 2025 population of 73. The Town provides residential and commercial solid waste collection services to its citizens through a contract with Republic Services. Republic Services provides 95-gallon curbside carts for weekly residential and commercial collection. Residential and commercial waste generated in Union Grove is taken to Republic Service's Marshall County Transfer Station in Albertville where it is then taken to the Sand Valley Landfill in DeKalb County, for disposal. The Town of Union Grove does not have a recycling program.

Unincorporated Marshall County

Unincorporated Marshall County consists of approximately 479.7 square miles and has an estimated 2025 population of 51,442. Republic Services provides residential and commercial waste collection services to the unincorporated areas of Marshall County. Republic Services provides 95-gallon curbside carts for weekly residential collection. Residential and commercial waste is taken to Republic Service's Marshall County Transfer Station in Albertville where it is then taken to the Sand Valley Landfill in DeKalb County for disposal. No recycling programs were reported.

6.3 Bulky/Yard Waste

The cities of Albertville, Arab, Boaz, Guntersville, and Marshall County provide bulky/yard waste collection services. Bulky and yard waste collected in Albertville is collected by Meridian Waste and disposed of at Noble Hill Landfill. Bulky and yard waste collected by the City of Arab is disposed of at the Arab C/D Landfill. Bulky waste collected by the City of Boaz is placed in roll-off containers and disposed of by Republic Services in their Sand Valley Landfill. Limbs collected by the City of Boaz are incinerated, and yard waste collected by the City is composted. Bulky and yard waste collected by the City of Guntersville is disposed of at the Guntersville Landfill.

6.4 Construction/Demolition Solid Waste

Three municipalities including the Cities of Albertville, Arab, and Guntersville provided information on C/D waste generation and disposal. Albertville provides C/D waste collection services through Meridian Waste. C/D waste collected by Meridian Waste is disposed of at Noble Hill Landfill. Arab reported that C/D waste is collected by the municipality and is disposed at Arab C/D Landfill. Guntersville reported that C/D waste is collected by the municipality and disposed at Guntersville Landfill.

Outside of municipal collection, C/D wastes are typically collected and transported to a C/D landfill by residents, businesses, or contract haulers.

6.5 Commercial and Industrial Solid Waste

All seven participating municipalities and Unincorporated Marshall County provide limited curbside commercial solid waste collection. Commercial collection is generally limited to those generating volumes that can be contained and collected weekly in 95-gallon curbside carts. Large commercial generators contract directly with private waste handlers that can provide dumpster services. The private waste handlers identified as operating in Marshall County include Meridian Waste and Republic Services.

6.6 Special Waste

Special wastes can be collected and transported to a MSW landfill by a municipality, county, business, or contract hauler. Various methods are used for the transport of Special Wastes but may involve dump trucks or appropriate containerization (i.e. drums) and transport in trucks or tractor trailers. Roll-off containers may also be used in the collection and transport of special wastes.

6.7 Medical Waste

The collection, storage, transportation, treatment, and disposal of medical waste produced within Marshall County must be in accordance with the ADEM Land Division – Medical Waste Program, Division 17.

7.0 EXISTING DISPOSAL FACILITIES

7.1 Statute Requirement

Code of Alabama, Section 22-27-47(b) each plan shall at a minimum:

Identify and describe the facilities where solid waste is currently being disposed or processed and the remaining available permitted capacity of such facilities and the capacity which could be made available through the reasonable expansion of such facilities;

7.2 Municipal Solid Waste Landfills

Fifteen municipal solid waste landfills in Alabama are permitted to service Marshall County. Table 7.1 lists the landfills, permit numbers, permit expiration dates, and locations of these facilities. All 15 MSW landfills were contacted for information pertaining to permitted capacity, estimated remaining capacity/lifespan, planned expansions, etc. Of the 15 MSW landfills contacted, six landfills verified sufficient capacity for more than 10 years of continued operation: Three Corners Regional Landfill, Choctaw County Regional Landfill, Coffee County Sanitary Landfill, Sand Valley Landfill, Noble Hill Landfill, Big Sky Environmental, North Montgomery Landfill, and Brundidge Landfill.

EPA's Landfill Methane Outreach Program (LMOP) Database was also utilized to verify a lifespan of more than 10 years for the following landfills: City of Decatur-Morgan County Sanitary Landfill, Arrowhead Landfill, Star Ridge Landfill, Stone's Throw Landfill, Black Warrior Solid Waste Facility, and Turkey Trot Landfill.

North Montgomery Landfill reported that they will not accept waste from Marshall County even though they are permitted to service Marshall County. Cedar Hill Landfill is closed and no longer accepting waste. Based on information from the landfills and the LMOP Database, the landfills with Marshall County in their service area are expected to have adequate capacity to meet the disposal needs of Marshall County for the next 10-15 years.

According to the information provided by participating municipalities, Noble Hill Landfill and Sand Valley Landfill are the two primary landfill facilities currently used for the disposal of municipal solid waste generated in Marshall County.

Table 7-1 MSW Landfills with Marshall County in Their Service Area

Facility	Permit No.	Expiration Date	Location	Permitted Volume (tons/day)
Three Corners Regional Landfill	10-02	6/4/2024 ¹	Piedmont	1,500
Choctaw County Regional Landfill	12-01	1/12/2030	Butler	1,500
Coffee County Sanitary Landfill	16-10	3/27/2032	Elba	1,200
Sand Valley Landfill	25-04	7/25/2034	Collinsville	1,500
Noble Hill Landfill	28-08	3/20/2024 ¹	Attalla	3,000
Big Sky Environmental, LLC Solid Waste Facility	37-48	2/9/2035	Adamsville	25,000
North Montgomery Landfill	51-01	9/20/2030	Montgomery	2,000
City of Decatur-Morgan County Landfill	52-03	9/26/2034	Decatur	1,500
Arrowhead Landfill	53-03	3/2/2033	Uniontown	15,000
Brundidge Landfill LLC	55-07	8/16/2022 ¹	Brundidge	7,500
Cedar Hill	58-01	Closed	Ragland	600
Star Ridge	58-05	4/15/2023 ¹	Moody	1,500
Stone's Throw	62-11	2/9/2022 ¹	Tallassee	1,500
Black Warrior Solid Waste Facility	63-01	10/6/2032	Coker	1,500
Turkey Trot	65-05	8/16/2030	Citronelle	4,000

¹Permits that are expired are currently being reviewed by ADEM for renewal or in the process of completing a permit application. These landfills are still operating under their current permit until they receive an updated permit, per Section I.E.3. of their respective permits.

Noble Hill Landfill (Permit No. 28-08)

The Noble Hill Landfill is a Subtitle D municipal solid waste landfill that is owned and operated by Meridian Waste Alabama, LLC. This landfill is located at 300 Noble Hill Road in Attalla, Etowah County and is permitted to accept waste from the contiguous United States.

Noble Hill is permitted to accept nonhazardous solid wastes, noninfectious putrescible and nonputrescible wastes including but not limited to residential garbage, commercial waste, industrial waste, construction and demolition debris, tires, appliances, trees, limbs, stumps, dried sludge, paper, and other similar type materials including Special Waste approved by the ADEM.

According to the facility permit, issued March 21, 2019, the total permitted area for Noble Hill is approximately 208.38 acres of which 121.06 acres were permitted for disposal. The approved waste volume for Noble Hill is 3,000 tons per day. The permit expiration date is March 20, 2024.

Construction of Cells No. 1-3 (approximately 5.6 acres) was completed in January 2025. The facility is currently undergoing a permit modification to account for the additional cells. The estimated remaining lifespan for Noble Hill Landfill is 34.5 years.

In 2024, approximately 287,255 tons of solid waste was disposed of in this landfill. Noble Hill Landfill is permitted to accept C/D waste along with municipal solid waste and industrial waste. However, they do not segregate C/D waste from other waste types and cannot distinguish the volume of waste they receive from Marshall County. A copy of the Noble Hill Permit is included in Appendix B.

Sand Valley Landfill (Permit No.25-04)

The Sand Valley Landfill is a Subtitle D municipal solid waste landfill that is owned and operated by GEK, Inc., a wholly owned subsidiary of BFI Waste Systems of North America, Inc. Note that BFI Waste Systems of North America is owned by Republic Services. This landfill is located at 3345 County Road 209 in Collinsville, DeKalb County, and is permitted to accept waste from the following counties in Alabama: Blount, Calhoun, Cherokee, Clay, Cleburne, DeKalb, Etowah, Jackson, Limestone, Madison, Marshall, Morgan, Randolph, St. Clair, and Talladega.

Sand Valley is permitted to accept nonhazardous solid wastes, noninfectious putrescible and nonputrescible wastes including but not limited to residential garbage, commercial waste, industrial waste, construction and demolition debris, ash, treated medical waste, sludge, drilling fluids and cuttings, asbestos, foundry sand, tires, trees, limbs, stumps, and other similar type materials including Special Waste approved by the ADEM.

According to the facility permit, issued July 26, 2024, the total permitted area for Sand Valley is approximately 318.87 acres of which 229 acres are permitted for disposal, including a 2-acre closed C/D disposal area. The approved waste volume for Sand Valley is 2,100 tons per day. The estimated remaining lifespan for Sand Valley Landfill is 30 years and there are plans to build a new cell in the Summer of 2025. A copy of the Sand Valley Permit is included in Appendix C.

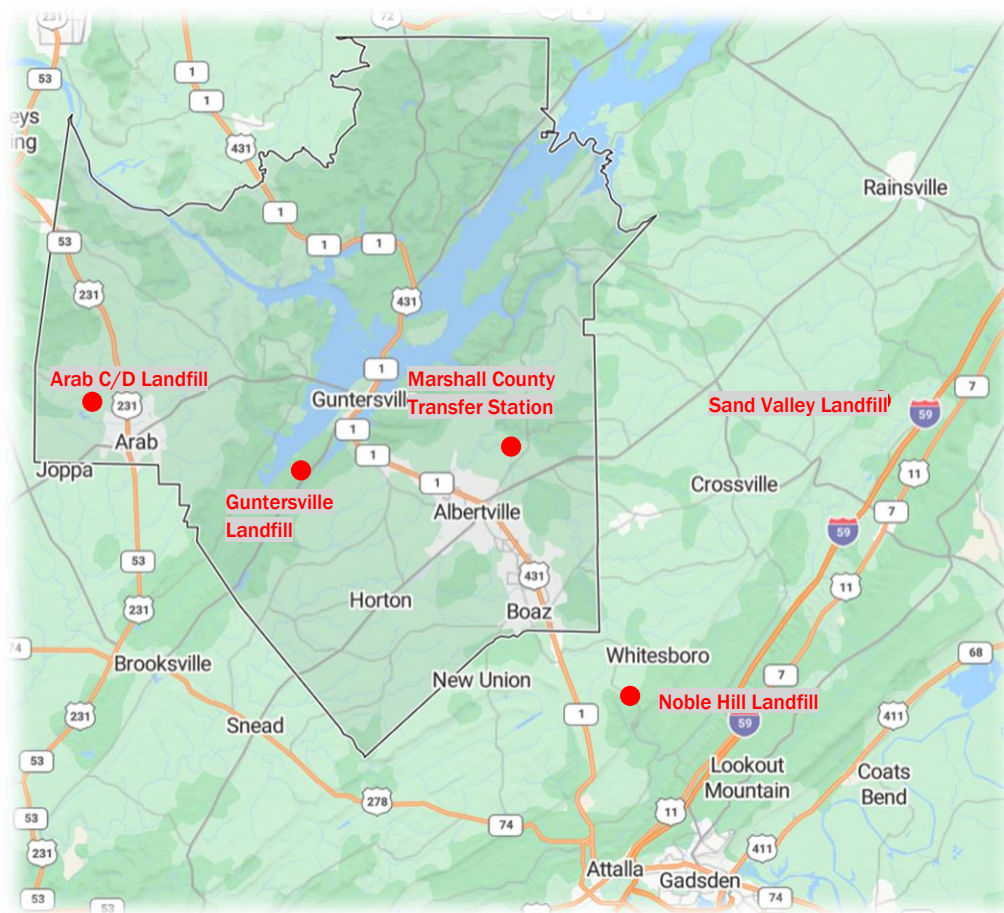


Figure 2 – Solid Waste Disposal Facilities Serving Marshall County

7.3 Solid Waste Transfer Stations

The Marshall County Transfer Station, operated by Republic Services, Inc., is located at 224 Rives Road in Albertville, Alabama. Solid waste from Arab, Boaz, Guntersville, Douglas, Grant, Union Grove, and unincorporated Marshall County is disposed of at this transfer station where it is then transported to the Sand Valley Landfill.

7.4 Industrial Landfills

Non-hazardous industrial waste is approved by ADEM for disposal at MSW facilities that service the jurisdiction of this SWMP.

According to the ADEM, there are currently four industrial landfills that include Marshall County in their service area. Table 7.2 lists the landfills, permit numbers, permit expiration dates, and locations of these facilities.

The Mueller Company Industrial Landfill is located within Marshall County and is also listed as having an industrial landfill. We understand this landfill was used exclusively by the Mueller Company – Albertville Plant for disposal. This facility was not permitted to accept waste from the public.

Table 7-2 Industrial Landfills with Marshall County in Their Service Area

Facility	Permit No.	Expiration Date	Location	Permitted Volume (tons/day)
Fort Payne Landfill	25-02	11/12/2022 ¹	Fort Payne	200
Franklin County Land Management, Inc. C/D Landfill	30-04	6/10/2030	Russellville	250
Sylvan Springs Waste Complex	37-46	1/24/2033	Sylvan Springs	2500

¹Permits that are expired are currently being reviewed by ADEM for renewal or in the process of completing a permit application. These landfills are still operating under their current permit until they receive an updated permit, per Section I.E.3. of their respective permits.

In addition to these three Industrial landfills, Noble Hill Landfill and Sand Valley Landfill are permitted to accept industrial waste from Marshall County.

Based on information obtained from the participating municipalities that responded to the request for information, only the Sand Valley Landfill is routinely used for the disposal of industrial waste generated in Marshall County.

7.5 Construction and Demolition Landfills

According to ADEM, there are currently 13 C/D landfills in Alabama which are permitted to service Marshall County. Table 7.3 lists the landfills, permit numbers, permit expiration dates, and locations of these facilities.

Table 7-3 C/D Landfills with Marshall County in Their Service Area

Facility	Permit No.	Expiration Date	Location	Permitted Volume (tons/day)
B&B Tire	05-07	7/27/2033	Hayden	100
WCA Alabama LLC	05-08	6/12/2034	Trafford	500
Chambers County Landfill	09-02	9/26/2034	Lanett	75
IMMAC Power Solutions Incorporated	20-09	12/19/2029	Andalusia	200
Ashberry C/D Landfill & Tire Recycling Facility	20-10	9/24/2024 ¹	Opp	2000
Rose Hill Landfill	23-07	11/27/2033	Midland City	400
Bolivar Landfill	36-08	12/9/2030	Stevenson	300
Think Pink, Inc. Coalburg Road Landfill	37-34	6/29/2032	Fultondale	2000
Fultondale Waste Complex	37-45	12/8/2029	Fultondale	5000
City of Albertville Sanitary Inert Landfill	48-02	Closed	Albertville	100
Arab C/D Landfill	48-03	9/2/2030	Arab	500
Guntersville Landfill	48-11	7/31/2034	Guntersville	200
Pace Industries, Inc. Lynn Landfill	67-13	7/24/2034	Lynn	750

¹Permits that are expired are currently being reviewed by ADEM for renewal or in the process of completing a permit application. These landfills are still operating under their current permit until they receive an updated permit, per Section I.E.3. of their respective permits.

In addition to these C/D landfills, Noble Hill Landfill and Sand Valley Landfill are permitted to accept C/D waste from Marshall County.

Based on information obtained from the participating municipalities that responded to the request for information, only the Arab C/D Landfill, Guntersville Landfill, Noble Hill Landfill, and Sand Valley Landfill are primarily used for the disposal of C/D material generated in Marshall County.

Arab C/D Landfill (Permit No. 48-03)

The Arab C/D Landfill is owned and operated by the City of Arab, Alabama. This landfill is located at 1443 Hog Jaw Road in Arab, Alabama.

The Arab C/D Landfill is permitted to accept nonputrescible and nonhazardous construction and demolition waste and rubbish defined by Rule 335-13-1-.03 and polyurethane foam generated by HFI. According to the facility permit, issued September 3, 2020, the total permitted landfill area is approximately 88 acres of which 36 acres is designated for C/D waste disposal. The approved waste volume for the landfill is 500 cubic yards per day. The estimated remaining capacity at the landfill is 365,000 cubic yards as of the date of this plan. As of the date of this plan, the Arab C/D is in the

process of expanding the landfill to extend the estimated service life of the landfill an estimated 25 to 30 years. A copy of the Arab C/D Landfill Permit is included in Appendix D.

Guntersville Landfill (Permit No. 48-11)

The Guntersville Landfill is owned and operated by the City of Guntersville. This landfill is located at 5318 Alabama Highway 79 South in Guntersville.

The Guntersville Landfill is permitted to accept nonputrescible and nonhazardous construction and demolition waste, tires, and rubbish defined by Rule 335-13-1.03 from the City of Guntersville. According to the facility permit, issued August 1, 2024, the total permitted landfill area is approximately 41.08 acres of which 13.63 acres is approved for disposal. The approved waste volume for the landfill is 200 cubic yards per day. The estimated remaining service life of the landfill is 30 years as of the date of this plan. The Guntersville Landfill has 3 cell expansions planned within the next 10 years. A copy of the Guntersville Landfill Permit is included in Appendix E.

7.6 Composting Facilities

The City of Boaz operates a composting facility at the Street Department City Shop located at 1120 College Avenue in Boaz. Leaves, grass clippings, and other small yard waste is stockpiled and periodically ground to produce mulch which is available to city residents for pickup at no charge.

7.7 Incinerators

The City of Boaz operates an air-curtain incinerator at the Street Department City Shop located at 1120 College Avenue, Boaz, AL. Limbs collected by the City are incinerated at the City Shop.

Participating municipalities in Marshall County have the option to operate ADEM permitted air-curtain incinerators at their respective facilities as part of this SWMP.

7.8 Medical Waste

According to information obtained from the ADEM Permitted Medical Waste Treatment Facilities List, there are no permitted medical waste treatment facilities in Marshall County.

Marshall County has the option to consider Medical Waste Treatment Facilities as part of their SWMP that will be permitted with ADEM. Autoclaving is a steam sterilization process that medical facilities can use to sterilize small equipment, tools, or waste. An autoclave does this by using high-temperature and high-pressure steam to kill microorganisms in the waste.

7.9 Recycling Centers

Recycling Centers are discussed in detail in the following Section 8.0.

8.0 CURRENT AND PLANNED RECYCLING PROGRAMS

8.1 Statute Requirement

Code of Alabama, Section 22-27-47(b) each plan shall at a minimum:

Provide a description of current or planned recycling programs and an analysis of their impact on waste generated within the jurisdiction. Particularly regarding recycling, the plan shall describe and evaluate:

- *Potential benefits of recycling, including the potential solid waste reduction and the avoided cost of municipal waste processing or disposal.*

- *Existing materials recovery operations and the kind and weight or volume of materials recycled by the operations, whether public or private.*
- *The compatibility of recycling with other waste processing or disposal methods used in the jurisdiction including methods of collecting recyclables.*
- *Options for cooperation or agreement with other jurisdictions for the collection, processing and sale of recyclable materials.*

8.2 General

Waste minimization and recycling efforts are important aspects of solid waste management because it ultimately decreases the amount of solid waste deposited into landfills. In areas with adequate recyclable markets, typical recyclable materials include:

- Plastics - plastic containers and other plastics (toys, plastic hangers, baskets, rain ponchos, trash cans, etc.)
- Glass – unbroken glass, bottles
- Metals - ferrous (steel and tin food containers, scrap metal); non-ferrous (aluminum, brass, copper)
- Paper - white office paper, corrugated cardboard, newspapers, phone books, mixed paper (dry magazines and packing, junk mail)
- White Goods - large household appliances (washing machines, refrigerators, heat pumps, air conditioners)
- Batteries - dry cell, rechargeable, automotive, button, lead-acid
- Motor oil
- Tires
- Computers, printer cartridges, floppy disks and Video tapes
- Household toxins - poisons, paints, oil, solvents, cleaners, herbicides, antifreeze, aerosols, etc.
- Building Materials
- Cell Phones

8.3 Current Municipal Recycling Programs

Marshall County does not currently have a county-wide recycling program. Of the participating municipalities only Albertville and Guntersville have municipal recycling curbside pickup programs; however, both operate recycling centers which are open to recycling from non-residents.

Albertville-Boaz Recycling Authority

Albertville provides weekly recycling pickup services to city residents and operates the Albertville-Boaz Recycling Authority at 311 Sand Mountain Drive SW. The center maintains two recycling trailers in Boaz, five recycling trailers in Grant, and over 200 recycling trailers throughout the Albertville-Boaz area. In 2024, the Albertville-Boaz Recycling Authority collected and recycled 1274.4 tons of material. The Recycling Authority was not able to provide a breakdown of tons of each material collected. The Authority recycles the following materials:

Paper
Cardboard
Plastics
Aluminum

Glass
White Packing Styrofoam
Fluorescent Bulbs
Plastic Bags

Guntersville Recycling Center

Guntersville provides weekly recycling pickup services to city residents and operates the Guntersville Recycling Center at 271 Avalon Way. The center maintains a recycling trailer at the facility which is open to recycling drop-offs from non-residents. The center also provides recycling pickup services to businesses on a by-appointment basis. In 2024, the Guntersville Recycling Center collected and recycled 1243.3 tons of the following:

Material	Amount Recycled (tons)
Glass/Ceramic	134.56
Aluminum	99.19
Cardboard	833.03
Plastics	67.41
E-waste	2.64
Paper Mix	81.42
Steel	20.15
Paper Back Books	4.63

Each municipality in Marshall County recognizes the benefits and need for recycling efforts in their jurisdiction and the option to start or change a recycling program shall remain available to the jurisdictions throughout the planning period of this SWMP.

8.4 Private Industry Recycling Programs

Recycling Brokers

Recycling brokers were not identified during the municipal survey process. Although none were identified during the survey process, recycling brokers are expected to provide contracted services to various commercial and industrial facilities in Marshall County and are thereby incorporated by reference in this plan.

Grocery Industry

Many supermarkets/grocery stores in Marshall County currently recycle plastic bags and corrugated cardboard, with some stores having their own cardboard baling machines. The material is typically picked up at each store location by various recycling brokers. Since records of recycled amounts are not typically kept at each store, no attempt was made to quantify the amount of plastic or cardboard recycled by the grocery industry in Marshall County.

Rechargeable Batteries

The Rechargeable Battery Recycling Corporation (RBRC) is a national non-profit public service organization that recycles portable rechargeable batteries commonly found in cordless power tools, cellular and cordless phones, laptop computers, camcorders, digital cameras, and remote-control toys. RBRC offers recycling plans for retailers, businesses, communities, and public agencies, and although businesses pay shipping charges to the reclamation facility, this service is provided free of charge to consumers and communities. There are many cellular, hardware, retail and home improvement stores in Marshall County that currently serve as rechargeable battery collection centers.

Electronics

A national program to recycle computers and other electronic devices has been underway for several years in some places. This program attempts to remove from the waste stream often hazardous material used in the manufacture of computers, computer monitors, TV sets, and other home and office electronics. For a nominal fee, office supply stores, such as Staples and others, will collect and

transport these devices to specialized recyclers who will safely disassemble and recover many hazardous materials for reuse.

8.5 Planned Recycling Programs

The Alabama Solid Wastes and Recyclable Materials Management Act of 2008 established a 25% recycling goal for the State. However, as of the date of this SWMP, there are currently no other recycling programs planned for Marshall County or participating municipalities.

In 2018, China enacted a ban on imported recyclable materials which caused the U.S. market for recyclables to plummet. The recyclables market has remained low, and without the revenue to offset the cost of recycling programs, many municipalities have been forced to scale back or eliminate their recycling programs.

The option to start an additional recycling program or make changes to an existing recycling program(s), shall remain available to each jurisdiction throughout the planning period of this SWMP.

8.6 Joint Ventures

The Albertville-Boaz Recycling Authority is a joint venture recycling program between the City of Albertville and the City of Boaz. The Authority performs weekly curbside pickup services in Albertville, weekly pickup of recycled materials at two drop-off trailers in Boaz, and the Authority also performs weekly pickup of recycled cardboard and aluminum at five drop-off trailers in the Town of Grant. There are currently no other known recycling joint venture programs planned for Marshall County or its covered municipalities; however, the option to start a joint venture recycling program shall remain available to each covered jurisdiction throughout the planning period of this SWMP.

8.7 Benefits of Recycling

According to information provided in the survey results, at least 2517.7 tons of materials were removed from the solid waste stream through municipal recycling efforts in Marshall County in 2024. By recycling these materials, the overall volume of solid waste disposed of in area landfills was reduced.

9.0 RCRA SUBTITLE D REQUIREMENTS

9.1 Statute Requirement

Code of Alabama, Section 22-27-47(b) each plan shall at a minimum:

Address the requirements proposed under Subtitle D of the federal Resource Conservation and Recovery Act, 42 U.S.C. Section 6941 as amended and identify and explain those actions the jurisdiction should take to assure proper management of its wastes under these requirements.

9.2 General

The Resource Conservation and Recovery Act (RCRA) is a federal law governing the disposal of solid and hazardous waste. RCRA, an amendment to the Solid Waste Disposal Act, was enacted in 1976 to achieve the following:

- Protect human health and the environment from the potential hazards of waste disposal;
- Conserve energy and natural resources;
- Reduce the amount of waste generated; and

- Ensure that waste is managed in an environmentally sound manner.

Enacted in 1984, the Subtitle D amendment to RCRA addresses the nonhazardous solid waste management and designates the state and local governments as the primary planning, permitting, regulating, implementing, and enforcement agencies for the management and disposal of nonhazardous solid wastes. The nationwide standards developed under Subtitle D include location restrictions, facility design and operating criteria, groundwater and landfill gas monitoring requirements, corrective action requirements, financial assurance requirements, and closure and post-closure care requirements. In addition to the minimum federal criteria, states may impose requirements that are more stringent than the federal requirements. Most states, including Alabama, have adopted these federal requirements into their solid waste management programs.

9.3 Jurisdictional Actions

Several of the municipalities in Marshall County require mandatory residential solid waste collection. Regulations state that all municipal solid waste must be disposed of in an MSW landfill that has been designed in accordance with Subtitle D regulations. The MSW landfills receiving waste generated in Marshall County have been designed to meet these Subtitle D regulations. Compliance with these regulations is assured through state-issued permits and periodic inspections by regulatory agencies. These facilities also adhere to the operating criteria, groundwater and landfill gas monitoring requirements, corrective action requirements, financial assurance requirements, and closure/post-closure care requirements of Subtitle D, as well as applicable air permitting requirements.

10.0 ILLEGAL DUMPS

10.1 Statute Requirement

Code of Alabama, Section 22-27-47(b) each plan shall at a minimum:

Propose procedures for the identification and elimination of unauthorized dumps in the jurisdiction;

10.2 Identification of Illegal Dumps

The composition of material found at illegal dumps is inconsistent and varies from site to site. However, the materials can generally be grouped into four categories: Tires, construction debris, yard waste, and residential waste.

Unauthorized or illegal dumps in Marshall County are typically reported by citizens, County employees, or law enforcement personnel. Marshall County actively investigates illegal dump sites that have been reported in unincorporated areas and prosecutes those responsible in accordance with Alabama's Criminal Littering statute 13A-7-29, if ownership can be established. Responsible parties are also encouraged to clean up their illegal dump sites within 24 hours in return for non-prosecution.

Most of the participating municipalities actively investigate illegal dump sites within their jurisdictions and prosecute those responsible in accordance with either local ordinances or Alabama's Criminal Littering statute 13A-7-29, if ownership can be established.

10.3 Elimination of Illegal Dumps

If ownership of the illegal dump site cannot be established, then the participating municipality may opt to clean up the illegal dump site with municipal employees. Alternatively, the "Marshall County PALS"

organization may be contacted. Once a problematic area has been cleaned, fencing or other barriers and/or “No Dumping” signs can be installed.

Qualifying unauthorized dump sites can also utilize ADEM’s Solid Waste Fund (SWF) Site Remediation Program to clean up and properly dispose of illegally dumped material.

10.4 Prevention of Illegal Dumps

General methods for the prevention of illegal dumping include:

- Mandatory subscription to available waste collection services
- Enforcement of fines and sentencing for illegal dumping
- Education of citizens concerning the penalties and magnitude of illegal dumping

11.0 SOLID WASTE GROWTH PROJECTIONS

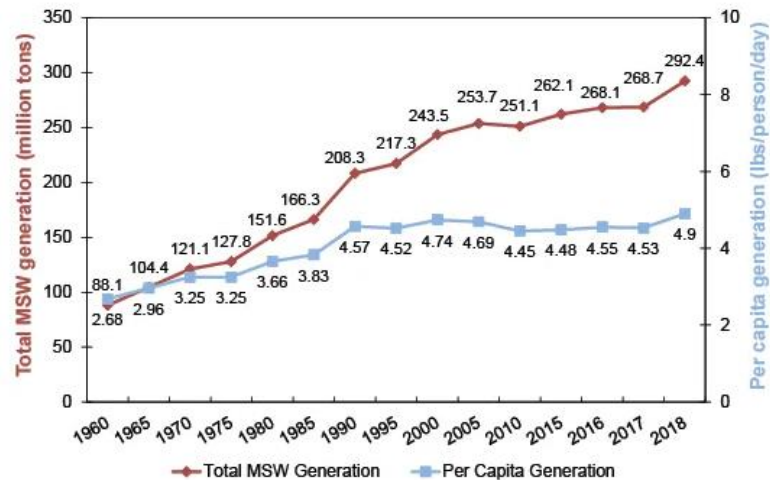
11.1 Statute Requirement

Code of Alabama, Section 22-27-47(b) each plan shall at a minimum:

Describe and explain the general origin and weight or volume of solid waste reasonably expected to be generated within the jurisdiction annually during the next 10 years;

11.2 Historic Perspective

Municipal solid waste generation rates have increased steadily from 2.68 PCD in 1960 to 4.9 PCD in 2018. It can be anticipated that the downturn in market value of recyclables, prompted by China’s 2018 ban on imported recyclable materials, will increase the per capita generation rate from 2018 forward. Note: According to the U.S.EPA website, per capita MSW generation data is currently only available through 2018



11.3 Estimation Methodology

Population estimates, together with the per capita solid waste generation rate, can be used to project future solid waste quantities.

According to the EPA document, The Decision Makers' Guide to Solid Waste Management, Vol. II, when estimating future solid waste generation quantities, "unless there is information to the contrary, it is best to assume no change in the generation rate and to develop future projections based on population projections alone".

MSW Generation Estimate

The Cities of Guntersville, Arab, and Boaz provide in-house collection service and have separate collection for C/D waste, bulky waste, and brush pickup. Therefore, collection data for Arab, Boaz, and Guntersville appears to be the best representation of expected waste generation for the County. The per capita MSW generation rate of 4.2 PCD was calculated using the sum of the estimated 2024

populations of Arab, Boaz and Guntersville and reported volume of MSW collected within those municipalities in 2024. The per capita MSW generation rate of 4.2 PCD is considered to be an accurate estimate of per capita MSW generation and will be used for estimating projected generation volumes for Marshall County.

Population Estimates

The current and future populations for Marshall County and participating municipalities were estimated using the 2023 population estimate and calculated 2023 growth/decline factor, obtained from the CBER at the University of Alabama. The CBER estimates are based on 2010 and 2020 U.S. Census data and reflect the changes made to the 2020 population data due to the Count Question Resolution and Post-Census review and revision programs as of January 1, 2023. The 2023 CBER population growth/decline factors were applied to the CBER 2023 populations for each municipality to calculate the estimated 2025 and 2035 populations. This population data is used for per capita references throughout this SWMP.

The following Table 11-1 summarizes U.S. Census and CBER based growth/decline and estimated 2025 and 2035 populations for the participating municipalities.

Table 11-1 Population Estimate Summary

Municipality	2010 Census	2020 Census	Projected Population Factor	2025 Estimated Population	2035 Estimated Population
Albertville	21,160	22,386	2.9%	24,367	31,046
Arab	8,050	8,461	4.6%	9,618	13,670
Boaz	9,551	10,107	2.9%	9,797	12,482
Douglas	742	744	2.8%	826	1,045
Grant	884	896	1.6%	1,091	1,260
Guntersville	8,197	8,553	5.6%	10,039	15,095
Union Grove	77	77	1.4%	73	83
Unincorporated Marshall County	44,358	46,388	2.8%	51,442	65,082
Marshall County (Total)	93,019	97,612	3.2%	107,199	139,439

The CBER population growth/decline factor for Marshall County provided in Table 11-1 shows an estimated 3.2% increase in Marshall County's population between 2010 and 2020, accounting for the Count Question Resolution and Post-Census review and revision programs in 2020. For planning purposes and estimating future MSW generation, the population of Marshall County is assumed to increase 3.2% annually over the next 10 years. The following Table 11-2 summarizes the projected population of Marshall County over the next 10 years.

11.4 Waste Generation Projections

MSW Generation

Projected Marshall County population estimates and corresponding MSW generation beginning in calendar year 2025 and continuing through 2035 are summarized in Table 11-2.

Table 11-2 Population-Based MSW Generation Summary

Year	Projected Population	Waste Generation (tons)		
		Residential	Commercial	MSW
2025	107,199	49,712	33,141	82,853
2026	110,629	51,303	34,202	85,504
2027	114,060	52,893	35,262	88,155
2028	117,490	54,484	36,323	90,807
2029	120,921	56,075	37,383	93,458
2030	124,351	57,666	38,444	96,109
2031	127,781	59,256	39,504	98,761
2032	131,212	60,847	40,565	101,412
2033	134,642	62,438	41,625	104,063
2034	138,072	64,029	42,686	106,715
2035	141,503	65,619	43,746	109,366

C/D Generation

Projected Marshall County population estimates and corresponding C/D generation beginning in calendar year 2025 and continuing through 2035 are summarized in Table 11-3.

Table 11-3 Population-Based C/D Generation Summary

Year	Projected Population	C/D Waste (tons)
2025	107,199	62,604
2026	110,629	64,608
2027	114,060	66,611
2028	117,490	68,614
2029	120,921	70,618
2030	124,351	72,621
2031	127,781	74,624
2032	131,212	76,628
2033	134,642	78,631
2034	138,072	80,634
2035	141,503	82,638

Industrial Waste Generation

Projected Marshall County population estimates and corresponding industrial generation beginning in calendar year 2025 and continuing through 2035 are summarized in Table 11-4.

Table 11-4 Population-Based C/D Generation Summary

Year	Projected Population	Industrial (tons)
2025	107,199	43,040
2026	110,629	44,418
2027	114,060	45,795
2028	117,490	47,172
2029	120,921	48,550
2030	124,351	49,927
2031	127,781	51,304
2032	131,212	52,681
2033	134,642	54,059
2034	138,072	55,436
2035	141,503	56,813

Special Waste

Special waste primarily consists of waste which is not regulated as hazardous waste and has physical and/or chemical characteristics that differ from all other residential and commercial waste. Examples of Special Waste include asbestos, foundry waste, MSW ash, non-hazardous contaminated soil, sludges, and non-hazardous industrial waste. This waste is typically accounted for in overall volume reports for a particular landfill and is not accounted for separately.

Medical Waste

Medical wastes are typically collected from medical and veterinary facilities, nursing homes, research laboratories and clinical laboratories by permitted medical waste transportation companies. Generation volume data was not readily available for inclusion in this SWMP. The storage, transportation, treatment, and disposal of medical waste produced within Marshall County must be in accordance with the ADEM Land Division – Medical Waste Program, Division 17.

11.5 Variables That May Affect Generation Rate Estimates

Several variables exist that may affect the future solid waste quantities predicted in the above sections.

Population Trends

Since solid waste projections are based on population estimates, population changes have a significant potential to influence waste generation estimates. Marshall County experienced significant population growth from 1990 to 2000 with a growth rate of 16.1%. The County population has continued to grow but has slowed since 2010 with a reported growth rate of 4.9% from 2010 to 2020. Projected population data obtained from the CBER indicates a 3.2% increase through 2040. This wide variability in population estimates can significantly affect solid waste generation projections. Economic growth can also affect an area's population in a short period of time and thus impact the solid waste generation projections.

Municipal Waste Generation Rates

The best correlation to project future MSW generation is accurate estimations of the current generation volume. For Marshall County, although most of the participating municipalities provided some MSW collection data, either directly or through private contractors, only the cities of Guntersville, Arab, and Boaz provide in-house collection service and have separate collection for C/D waste, bulky waste, and brush pickup. Had more participating municipalities been able to provide more accurate waste collection data, the per capita generation rate could have been better refined.

Other variables that can impact future waste generation estimates include both local and regional economic growth and recycling programs.

Industrial Waste Generation Rates

As with the MSW generation projections, the lack of actual and accurate industrial disposal data significantly affects the ability to accurately project future generation trends.

Construction/Demolition Waste Generation Rates

Projected generation rates for C/D waste can be greatly influenced by economy and weather. Fluctuations in construction have a large effect on the C/D waste generation rate. Additionally, severe weather can cause considerable damage to trees and buildings resulting in short-term spikes in C/D waste generation for several months.

Special Waste Generation Rates (Including Medical Waste)

Due to the random nature of special wastes generation, these types of waste are difficult to estimate. Volumes of special waste that would be disposed of in an MSW landfill tend to be small in comparison to the volume of municipal solid waste received at these landfills. The landfills that receive a larger percentage of Special Waste as compared to the total waste received tend to plan and prepare for those larger quantities. Therefore, changes in future amounts of special waste are not expected to significantly affect the total amounts or management of special waste generated in Marshall County in the future.

12.0 EXPANSION OF SOLID WASTE MANAGEMENT SYSTEMS

12.1 Statute Requirement

Code of Alabama, Section 22-27-47(b) each plan shall at a minimum:

Provide for the development or expansion of solid waste management systems in a manner that is consistent with the needs of the area, taking into account planning, zoning, population and development estimate, and economics of the jurisdiction and the protection of air, water, land, and other natural resources;

The current SWMP provides for a 10-year period during which new methods and technologies may be developed that can impact current solid waste processing and disposal practices. The SWMP is designed to retain all options available to the County and participating municipalities for managing solid waste streams.

As of the date of this plan, the Arab C/D Landfill is in the process of constructing a single new expansion cell. Guntersville Landfill is working on an expansion that will include three new cells. Sand Valley Landfill has plans of adding one new MSW cell in the Summer of 2025. Marshall County and the participating municipalities will periodically re-evaluate the solid waste needs for their respective

jurisdictions in order to provide for orderly transfer, development, and/or expansion of the solid waste management systems within the County.

12.2 Capacity Assurance

Municipal Solid Waste Capacity

Of the fifteen municipal solid waste landfills in Alabama permitted to service Marshall County, only two are currently being used by participating municipalities or their contracted collection and disposal companies. When contacted about remaining capacity, both landfills responded that they had sufficient capacity to accept their permitted daily volume for a minimum of the next ten years.

Construction/Demolition Capacity

Of the 13 C/D landfills in Alabama permitted to service Marshall County, only two are currently being used by participating municipalities or their contracted collection and disposal companies. The cities of Arab and Guntersville operate the only permitted C/D landfills in Marshall County. In addition, Noble Hill Landfill and Sand Valley Landfill are permitted to accept C/D waste from Marshall County.

As of the date of this plan, the Arab C/D Landfill is in the process of constructing a single new expansion cell, Guntersville Landfill is working on a facility expansion that will include three new cells, and Sand Valley Landfill has plans of adding one new MSW cell in the Summer of 2025. The combined volume of the proposed cells is expected to provide sufficient capacity to accept their permitted daily volume for a minimum of the next 30 years.

Industrial Solid Waste Capacity

The Mueller Company is listed as having an industrial landfill in Albertville. We understand this landfill was used exclusively by the Mueller Company – Albertville Plant for disposal of waste generated from their facility. This facility is not permitted to accept waste from the public.

The Fort Payne Landfill, Franklin County Land Management, Inc. C/D Landfill, and Sylvan Springs Waste Complex are permitted to accept industrial waste from Marshall County. Additionally, Noble Hill Landfill and Sand Valley Landfill are permitted to accept non-hazardous industrial waste. With the combined capacity of these landfills, there appears to be sufficient available volume to accept industrial waste from the County in the future.

12.3 Future Solid Waste Disposal Options

Even though there currently appears to be adequate MSW, C/D, and Industrial solid waste disposal capacity available to Marshall County, a jurisdiction within the County may decide it would be advantageous to site a new solid waste or recycling facility in their respective jurisdiction. The option to site a future landfill (either MSW, Industrial or C/D), solid waste processing facility (transfer station), recycling facility, air curtain incinerator, or specialty waste management service (medical waste processing) shall remain available to the participating municipalities throughout the planning period of this SWMP. If the jurisdiction decides to pursue this option, the guidelines and procedures of this Solid Waste Management Plan shall be followed.

12.4 Total Cost for Solid Waste Handling and Facilities

Other than the City of Guntersville, each municipality and the County contract to third party providers for collection, transportation, and disposal of residential and MSW. Third party providers collect, transport, and dispose of commercial MSW, industrial and C/D waste for commercial establishments, manufacturers, and construction contractors. Costs are then passed on to the residents or customers

for collection, transportation, and disposal, except for associated costs and revenue for recycling programs.

Average fees for the landfills accepting MSW from Marshall County are approximately \$32.00/ton. Tipping fees at the Arab and Guntersville Landfills are \$50.00/ton. At the current MSW and C/D generation volume, the residents of Marshall County currently spend approximately \$3,813,792 on disposal services annually.

The costs of industrial and special waste disposal are not well defined. The cost of collection, transportation and disposal depends on the length of the haul, number of pickups, and type of waste.

12.5 Zoning Considerations

Planning and zoning are the principal mechanisms for jurisdictions to control and guide future growth and achieve a logical pattern of land use and development. A Planning and Zoning Department or Commission works to ensure that new developments meet specific guidelines and requirements related to the adequacy of roads, parking, traffic flow, drainage, utilities, etc. Some of the generally accepted, specific objectives of zoning are:

- To conserve the taxable value of land and buildings
- To prevent overcrowding of land and buildings
- To lessen or avoid traffic congestion
- To promote the health, safety, and general welfare of the public and the community.

Provided that participating municipalities have planning and zoning regulations in place, or a review process for new developments, then any proposed solid waste transfer, disposal, or processing facility will be located in areas that are appropriate for each type of facility.

12.6 Local Economic and Population / Development Estimates

Population estimates discussed in Section 11.3 indicate the growth rate for the County will be approximately 3.2% annually for the next ten years; however, population projections can be difficult to estimate due to economic considerations and unsteady growth.

According to the United States Census Bureau, in 2023 there were 41,985 housing units in Marshall County with a median household income of \$60,946. The total population was 100,751 people and each household had an average occupancy of 2.71 people. Persons living in poverty consist of approximately 16.5% of the population. An example of the economic benefits of expanding the solid waste management system would be lower construction costs in high growth areas to facilitate ease of access to the facility and to help eliminate the effort spent on the clean-up of unpermitted illegal dumps in Marshall County.

12.7 Protection of Air, Water, and Natural Resources

All expansions of solid waste management systems are required to comply with applicable State, Federal, and Local Regulations governing the protection of the environment and solid waste disposal, where applicable. These Regulations which safeguard against health, safety, and environmental concerns involve:

- Buffer zones
- Minimum separation from groundwater
- Storm water run-on/run-off
- Liners, if applicable
- Leachate collection systems, if applicable

- Gas monitoring or ventilation systems, if applicable
- Intermediate cover of solid waste

Marshall County and the participating municipalities are not specifically required to make technical or scientific determinations about whether a facility achieves compliance with applicable laws and regulations. These jurisdictions defer the technical and scientific analysis to the agencies charged with approving, permitting, and monitoring solid waste management facilities.

13.0 CONTRACTUAL AGREEMENTS FOR JOINT VENTURES

13.1 Statute Requirement

Code of Alabama, Section 22-27-47(b) each plan shall at a minimum:

Identify any current agreements between the jurisdiction and other units of local government or public authorities for the joint use of solid waste processing or disposal facilities and evaluate the need for and feasibility of entering joints agreements in the future;

13.2 Current Agreements

Currently, there are no contracts between the Marshall County Commission and other participating municipalities for the joint use and operation of solid waste facilities.

13.3 Future Agreements

The current SWMP provides for a 10-year period during which new methods and technologies may be developed that can impact current solid waste processing and disposal practices. This impact may lead to the need for contractual agreements with other units of local government or authorities for the joint use and operation of solid waste facilities. Any proposed contractual agreements for joint ventures shall be made available in public meetings only after public notice of issuance and opportunity for public comment is provided.

14.0 PRIVATE COLLECTION, PROCESSING, AND/OR DISPOSAL CONTRACTS

14.1 Statute Requirement

Code of Alabama, Section 22-27-47(b) each plan shall at a minimum:

Identify any current contractual agreements with private entities for the collection, processing, or disposal of solid waste and evaluate the need for and feasibility of entering into such agreements in the future;

14.2 Contracts With Private Contractors

Other than the City of Guntersville, each participating municipality and the County have individual contracts with private contractors for collection, transportation, and disposal for MSW and C/D waste.

Medical wastes are typically collected and transported by permitted medical waste transportation companies.

Each municipality can choose their own solid waste contractor. Based on the information provided by participating municipalities, contracts with private haulers in Marshall County include Meridian Waste and Republic Services.

14.3 Evaluation of Need for Future Joint Agreements

Currently, each municipality in Marshall County either provides its own solid waste collection services or contracts with a commercial/private waste company for these services. Based on the current and future MSW and C/D needs of Marshall County and its participating municipalities, these contracts will continue to be an integral part of collection, transportation, and disposal of MSW and C/D waste.

Marshall County and the participating municipalities will follow their individual procurement processes when pursuing new contracts.

15.0 LOCATION POTENTIAL FOR DISPOSAL FACILITIES AND RECYCLING PROGRAMS

15.1 Statute Requirement

Code of Alabama, Section 22-27-47(b) each plan shall at a minimum:

Identify the general location within a County where solid waste processing or disposal facilities and recycling programs may be located, and identify the site of each facility if a site has already been chosen;

15.2 General

The governing body of a County or participating municipality has the responsibility to assure proper management of solid waste generated within its jurisdiction. When evaluating potential locations for additional solid waste facilities or recycling programs, a balance must be obtained between the need for such a facility and the concerns of local citizens and municipalities. Factors to consider when evaluating future expansion of solid waste management systems in the County include public health and safety, accessibility, drainage, proximity to groundwater and surface water, hauling distance and adjacent land use.

15.3 Specific Requirements and Considerations

Currently planned disposal facility expansions include the addition of new cells at Arab C/D Landfill, Guntersville Landfill, and Sand Valley Landfill. Other than these expansions, there are no reported plans for the addition of new solid waste processing centers or disposal facilities in Marshall County. However, the County and participating municipalities reserve the right to consider development of new facilities or expansion of existing facilities in the future.

Future development and/or expansion of solid waste management systems in the County must consider the following factors prior to approval by the local governing authority. The jurisdiction shall determine if these items have been addressed in a logical and complete manner. Deficiencies in the proposed facility plan will need to be addressed before approval.

1. Is the proposed expansion of the solid waste facilities consistent with the SWMP?

In considering future facilities, the County or participating municipality will review all proposed facilities and determine if the scope and purpose of a proposed facility is consistent with the current SWMP. If the proposed facility is not consistent with the SWMP, then the proposal can be denied.

2. **The relationship of the proposed facility to local planned or existing development (or the absence thereof), to major transportation arteries, and to existing state primary and secondary roads?**

The State, County, and participating municipality should be consulted as to the relationship of the proposed solid waste management facility to existing or proposed developments and/or roads leading to a proposed facility.

The type of facility also dictates the required proximity to certain infrastructure. Transfer stations should be located near major arteries as the haul trucks operate best on highways. Recycling centers should be located for ease of access by the public, bearing in mind that material haul trucks need access as well. Landfills are generally best located in rural or industrial areas, in relatively close proximity to major arteries so haul and collector trucks can have adequate access.

The safety of the motoring public should be a major consideration in siting planned facilities.

3. **The location of the proposed facility in proximity to existing industries in the state that generate large volumes of solid waste, or in proximity to the areas projected for development of industries that will generate solid waste?**

The County or participating municipality should consider the locations of proposed solid waste management facilities in proximity to existing or proposed industrial facilities that generate solid waste. Ideally, a facility intended to service an industry should be located as close as possible to the industry.

4. **Availability of public services, facilities and improvements required to support a proposed facility and protect public health, safety, and the environment?**

The County or participating municipality should be consulted concerning the availability of utilities and public services required for protection of health, safety, and the environment.

5. **The impacts, if any, the proposed facility will have on public safety and what provisions are made to minimize the impact on public health and safety?**

The proposed facility must be designed to minimize the impacts to public health and safety. The proposed facility plan should address transportation safety by evaluating existing roads and traffic controls with proposed upgrades. Stormwater and erosion control systems must be adequately designed and detailed to protect surface and groundwater resources. Provisions to minimize or prevent the public from contact with solid waste must be provided as part of the proposed plan.

6. **What are the social and economic impacts, if any, the proposed facility will have on the affected community, including changes in property values, and social or community perception?**

The County or participating municipality should take into consideration the effects, positive or negative, of the proposed solid waste management facility on the community. These effects shall be weighed against the advantages the proposed facility will bring to the community. Also, future use of the proposed facility shall also be considered such as what can the property be used for after the solid waste facility

has ceased to operate. The jurisdiction should solicit the opinions and concerns of community representatives and the general public.

15.4 Siting for Future Facilities

There are currently two active landfills in Marshall County, Arab C/D Landfill and the Guntersville Landfill. The Noble Hill Landfill and Sand Valley Landfill have both indicated that they should have sufficient capacity to accept their permitted daily volume for a minimum of the next 30 years. The Arab C/D Landfill and Guntersville Landfill indicated that they should have sufficient capacity to accept their permitted daily volume for a minimum of the next 10 years.

There are no new landfills anticipated for the County. Marshall County and participating municipalities will periodically re-evaluate the solid waste needs for their respective jurisdictions to provide for orderly development and/or expansion of the solid waste management systems if needed.

16.0 UTILIZING SOLID WASTE FACILITIES OUTSIDE MARSHALL COUNTY

16.1 Statute Requirement

Code of Alabama, Section 22-27-47(b) each plan shall at a minimum:

For any facility expected to serve the jurisdiction's future needs that is located or is proposed to be located outside the jurisdiction, the plan shall explain in detail the reasons for selecting such a facility;

16.2 Facility Use Outside of County

Both of the MSW landfills currently serving the County are in the adjacent counties of DeKalb and Etowah. The decision on which solid waste facility to use is typically made by the participating municipal government and/or private waste contractors and is generally based on economics, as well as the location of and ease of transportation to a facility.

17.0 APPROVAL PROTOCOL FOR SOLID WASTE FACILITIES

The Marshall County Commission will consider approval of proposed solid waste facilities in unincorporated Marshall County. Participating municipalities will consider approval of proposed facilities to be located within their jurisdictional limits. A municipal government which is subject to and covered by the County's SWMP may grant local approval of solid waste management facilities and services within their municipal limits if the municipality follows all requirements, instructions or activities in the Marshall County Solid Waste Management Plan that address local approval. If the municipality grants local approval of solid waste management facilities or services, the applying entity is not required to obtain local approval from the Marshall County Commission.

18.0 PUBLIC PARTICIPATION

Any proposal for the expansion of solid waste management systems in unincorporated Marshall County must be submitted to the County Commission and include the following: Letter with description of the proposed facility, Site Location Map, and report addressing the six items listed in Section 15.3

After a satisfactory proposal is presented to the County Commission and prior to any action by the commission, the proposal shall be made in a public meeting only after public notice of issuance and an opportunity for public comment is provided. The Marshall County Commission will not consider,

vote, or propose for public hearing any proposal that does not comply with the requirements outlined in this SWMP.

In providing public notice regarding any expansion of solid waste management systems described in the SWMP, the County Commission shall, at a minimum, hold at least one public hearing.

- Notice of the time and place of the hearing shall be given by publication in a newspaper of general circulation in the area.
- The notice will be given at least 30 days in advance but not more than 45 days in advance of the proposed date of the hearing.
- The notice will contain at a minimum a description of the proposed action, its relevancy and consistency with the SWMP and will identify a contact person to obtain information.
- All pertinent documents should be available for inspection during normal business hours at a location readily accessible to the public.

Participating municipalities may follow a similar process for public participation in solid waste management systems approval.

18.1 Public Participation for the Proposal of Collection, Transportation, and Disposal Contracts

Marshall County and the participating municipalities will follow their individual procurement processes when pursuing new contracts.

REFERENCES

- (1) *Marshall County Comprehensive Ten Year Solid Waste Management Plan, November 1990:*
- (2) *Marshall County Solid Waste Management Plan Update, September 2004:*
- (3) *Marshall County, Alabama Solid Waste Management Plan, 2014:*
- (4) Alabama Department of Environmental Management, Land Division- Solid Waste Program, Division 13, Revised August 15, 2022:
- (5) Alabama Department of Environmental Management, Land Division- Solid Waste Program, Division 17, Effective January 16, 2012:
- (6) 2017 Code of Alabama Title 22 – Health, Mental Health, Health and Environmental Control. Title 1 - Health and Environmental Control Generally, Chapter 27 - SOLID WASTE. Article 1 - Solid Wastes Disposal Act
- (7) Alabama Solid Waste Disposal Act, 2017 Code of Alabama 1975, 22-27-047, revised in 2008:
- (8) USEPA – *Advancing Sustainable Materials Management: 2018 Fact Sheet*, December 2020:
- (9) USEPA – *Advancing Sustainable Materials Management: 2018 Tables and Figures*, December 2020:
- (10) USEPA – *MSW Characterization Methodology*, undated:
- (11) USEPA - *Construction and Demolition Debris Generation in the United States*, 2015 USEPA Office of Resource Conservation and Recovery, dated September 2018:
- (12) USEPA – *Estimating 2003 Building-Related Construction and Demolition Materials Amount*, Undated:
- (13) USEPA - *Volume-to-Weight Conversion Factors*, U.S. Environmental Protection Agency Office of Resource Conservation and Recovery, dated April 2016:
- (14) USEPA - *National Overview: Facts and Figures on Materials, Wastes and Recycling*:
- (15) USEPA - *Municipal Solid Waste in the United States: 2001 Facts and Figures*:
- (16) Website: The University of Alabama, April 2025. The Center for Business and Economic Research: <http://cber.cba.ua.edu/>:
- (17) ADEM – Permitted Construction/Demolition and Industrial Landfills in the State of Alabama, dated July 31, 2020:
- (18) ADEM – Permitted Municipal Solid Waste Landfills in the State of Alabama, dated November 24, 2021:
- (19) ADEM – Alabama Public Recycling Locations by County, undated:
- (20) Information maintained in the ADEM web-based E-file system:
- (21) *Administrative & Technical Support in Evaluating Public Input on Potential Enhancements to the State Solid Waste Program Phase I - Potential Enhancements to the Alabama Solid Waste Landfill Permitting Process*, Prepared by Joel S. Hayworth, Prabhakar Clement, J. Brian Anderson, and Charlene LeBleu Samuel Ginn College of Engineering, Civil Engineering Department College of Architecture, Design, and Construction Auburn University, dated May 30, 2013.

APPENDIX A

Marshall County Commission Resolution Adopting the SWMP

STATE OF ALABAMA

MARSHALL COUNTY

RESOLUTION TO ADOPT THE MARSHALL COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, the County Commission of Marshall County, Alabama, is required by the Alabama Solid Waste Disposal Act, Code of Alabama 1975, §22-27-47 (revised in 2008 and referred to as the Solid Wastes and Recyclable Materials Management Act – SWRMMA), as last amended, to periodically submit a minimum ten-year Solid Waste Management Plan (SWMP) to address the solid waste management within the County; and

WHEREAS, the Marshall County Commission has retained the engineering firm of TTL to prepare the required SWMP, and has conducted a public hearing preceded by the required public comment period to solicit input, and has consolidated citizen comments and concerns, if any, into the development of the completed plan; and

WHEREAS, the Solid Waste Management Plan must be adopted through a resolution by the County Commission before submission to the Alabama Department of Environmental Management.

THEREFORE, BE IT RESOLVED the Marshall County Commission approves and adopts the Marshall County Solid Waste Management Plan and that this Solid Waste Management Plan will serve as the basis for solid waste management within Marshall County from the date of adoption through December 31, 2035, unless amended prior to that date.

Approved this the 13th day of August 2025.

JOHN YOUNG, Chairman

RONNY SUMATE, District 1 Commissioner

RICK WATSON, District 2 Commissioner

LEE SIMS, District 3 Commissioner

~~JOEY BAKER~~, District 4 Commissioner

Attest:

ASHLEIGH BUBBETT, County Administrator

MARSHALL COUNTY
PUBLIC HEARING
SIGN-IN SHEET

DATE:	TIME:	LOCATION:	PURPOSE:
08/13/2025	9:00 a.m.	Marshall County Courthouse, 424 Blount Ave, Guntersville, AL 35976	Marshall County Solid Waste Management Plan

ATTENDANCE RECORD

Please Note: The information in this document (including names, addresses, phone numbers, e-mail addresses, and signatures) is not confidential, and may be subject to disclosure upon request, pursuant to the requirements of the Alabama open records law.

NAME (Please Print)	STREET ADDRESS CITY/STATE/ZIP CODE	REPRESENTING (Leave blank or write N/A if not applicable)	PHONE NUMBER	Email (Please fill out if you would like to receive notifications by email)
Shan McMillian	660 Galleher St. 35801	Office of U.S. Senator Katie Britt		shan-mcmillian@hr.house.gov
LARRY SORTO	578 ARLINGTON RD. ARAO 35016	ALCOHOL COMMITTEE		
Blake Farmer	1117 James St. Boaz, AL 35957	Marshall County EMA	256-571-7329	bfarmer@marshallco.org
Anita K. Ruya	2601 Scenic Bluff Dr. Guntersville			
Angie Moon	1837 Pine Circle Dr Guntersville	Public		
Laura Braswell	1620 Bayak Island Dr. Guntersville	Public		
BJ MITCHELL	1009 KERRICK AVE, GVILLE	SELF		
Pat Smith	95 Wright Rd Gville, AL	Sheriff		psmith@marshallco.org
Willie Orr	8841 Mailhog Rd Aville, AL	Chief Deputy		worr@marshallco.org
Karen Young	1615 Old 227, Langston AL 35755	Self	256-572-3741	
Michael Knop	424 Blount Ave, Guntersville, AL 35976	Marshall County Engineering	256-558-0916	mknop@marshallal.gov
Kristal Jones	424 Blount Ave, Guntersville, AL 35976	Marshall County Engineering	256-571-7712	kjones@marshallal.gov
Norma Parker	424 Blount Ave	Marshall County Com.	256-505-1573	nparker@marshallco.org

APPENDIX B

Noble Hill Landfill Solid Waste Disposal Facility Permit

LANCE R. LEFLEUR
DIRECTOR



KAY IVEY
GOVERNOR

Alabama Department of Environmental Management
adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ■ FAX (334) 271-7950

March 21, 2019

Mr. Cody Robinson
Attorney for SV Enterprises, LLC
301 Broad Street
Gadsden, Alabama 35901

RE: Noble Hill Landfill
Permit No. 28-08

Dear Mr. Robinson:

Enclosed is the Solid Waste Facility Disposal Permit for the Noble Hill Landfill, Permit No. 28-08. The permit is effective March 21, 2019 and the permit will expire on March 20, 2024.

If you should have any questions, please contact Mr. Jonathan Crosby at the Solid Waste Engineering Section at (334) 270-5644.

Sincerely,

S. Scott Story, Chief
Solid Waste Engineering Section
Land Division

SSS/jc

Birmingham Branch
110 Vulcan Road
Birmingham, AL 35209-4702
(205) 942-6168
(205) 941-1603 (FAX)

Decatur Branch
2715 Sandlin Road, S.W.
Decatur, AL 35603-1333
(256) 353-1713
(256) 340-9359 (FAX)



Mobile Branch
2204 Perimeter Road
Mobile, AL 36615-1131
(251) 450-3400
(251) 479-2593 (FAX)

Mobile-Coastal
3664 Dauphin Street, Suite B
Mobile, AL 36608
(251) 304-1176
(251) 304-1189 (FAX)

FINAL DETERMINATION

RENEWAL

SV Enterprises, LLC
301 Broad Street
Gadsden, Alabama 35901

Noble Hill Landfill
Permit No. 28-08

March 21, 2019

SV Enterprises, LLC applied to the Alabama Department of Environmental Management (ADEM) to renew the Solid Waste Disposal Facility Permit for the Noble Hill Landfill, Permit No. 28-08. The waste stream for the Noble Hill Landfill would remain nonhazardous solid wastes, noninfectious putrescible and nonputrescible wastes including but not limited to household garbage, commercial waste, industrial waste, construction and demolition debris, tires, appliances, trees, limbs, stumps, dried sludge, paper, and other similar type materials. Special waste approved by ADEM may also be accepted. The service area for the Noble Hill Landfill would remain the contiguous United States. The maximum average daily volume of waste disposed at the Noble Hill Landfill would remain 3000 tons per day. The application requested that all conditions of the current permit for the Noble Hill Landfill, including previously approved variances and special conditions, be granted in the renewed permit.

The landfill is located in Sections 15 and 16, Township 11 South, Range 5 East in Etowah County, Alabama. The permitted facility consists of 208.38 acres with 121.06 acres permitted for disposal operations.

A public comment period was announced by ADEM on February 1, 2019 and ended on March 8, 2019. The permit application and draft permit was available for inspection at the Alabama Department of Environmental Management and on the Alabama Department of Environmental Website. The Department received no comments during the comment period.

The Solid Waste Engineering Section has determined that the permit application complies with the requirements of ADEM's Administrative Code Division 13 regulations for a municipal solid waste landfill.

Technical Contact:

Mr. Jonathan Crosby
Solid Waste Engineering Section
Land Division
(334) 270-5644



SOLID WASTE DISPOSAL FACILITY PERMIT

PERMITTEE: SV Enterprises, LLC

FACILITY NAME: Noble Hill Landfill

FACILITY LOCATION: Sections 15 and 16, Township 11 South, Range 5 East in Etowah County.
The facility consists of 208.38 ± acres with a disposal area 121.06 ± acres.

PERMIT NUMBER: 28-08

PERMIT TYPE: Municipal Solid Waste Landfill

WASTE APPROVED FOR DISPOSAL: Nonhazardous solid wastes, noninfectious putrescible and nonputrescible wastes including but not limited to household garbage, commercial waste, industrial waste, construction and demolition debris, tires, appliances, trees, limbs, stumps, dried sludge, paper, and other similar type materials. Special waste approved by ADEM may also be accepted.

APPROVED WASTE VOLUME: 3,000 tons per day

APPROVED SERVICE AREA: Contiguous United States

In accordance with and subject to the provisions of the Alabama Solid Wastes and Recyclable Materials Management Act, as amended, Code of Alabama 1975, SS 22-27-1 to 22-27-27 ("SWRMMA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, SS 22-22A-1 to 22-22A-15, and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to dispose of the above-described solid wastes at the above-described facility location.

ISSUANCE DATE: March 21, 2019

EFFECTIVE DATE: March 21, 2019

EXPIRATION DATE: March 20, 2024

Alabama Department of Environmental Management

**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
SOLID WASTE PERMIT**

Permittee: SV Enterprises, LLC
301 Broad Street
Gadsden, Alabama 35901

Landfill Name: Noble Hill Landfill

Landfill Location: Sections 15 and 16, Township 11 South, Range 5 East in Etowah County, Alabama

Permit Number: 28-08

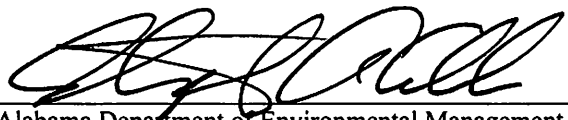
Landfill Type: Municipal Solid Waste

Pursuant to the Alabama Solid Wastes and Recyclable Materials Management Act, Code of Alabama 1975, §§ 22-27-1, *et seq.*, as amended, and attendant regulations promulgated thereunder by the Alabama Department of Environmental Management (ADEM), this permit is issued to SV Enterprises, LLC (hereinafter called the Permittee), to operate a solid waste disposal facility, known as the Noble Hill Landfill.

The Permittee must comply with all terms and conditions of this permit. This permit consists of the conditions set forth herein (including those in any attachments), and the applicable regulations contained in Chapters 335-13-1 through 335-13-15 of the ADEM Administrative Code (hereinafter referred to as the "ADEM Admin. Code"). Rules cited are set forth in this document for the purpose of Permittee reference. Any Rule that is cited incorrectly in this document does not constitute grounds for noncompliance on the part of the Permittee. Applicable ADEM Administrative Codes are those that are in effect on the date of issuance of this permit or any revisions approved after permit issuance.

This permit is based on the information submitted to the Department on September 4, 2018 and is known as the Permit Application (hereby incorporated by reference and hereinafter referred to as the Application). Any inaccuracies found in this information could lead to the termination or modification of this permit and potential enforcement action. The Permittee must inform ADEM of any deviation from or changes in the information in the Application that would affect the Permittee's ability to comply with the applicable ADEM Admin. Code or permit conditions.

This permit is effective as of **March 21, 2019** and shall remain in effect until **March 20, 2024** unless suspended or revoked.


Alabama Department of Environmental Management

3/21/19
Date Signed

SECTION I. STANDARD CONDITIONS

- A. Effect of Permit. The Permittee is allowed to dispose of nonhazardous solid waste in accordance with the conditions of this permit and ADEM Admin. Code Div. 13. Issuance of this permit does not convey property rights of any sort or any exclusive privilege, nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of state or local laws or regulations. Except for actions brought under Code of Alabama 1975, §§ 22-27-1, *et seq.*, as amended, compliance with the conditions of this permit shall be deemed to be compliance with applicable requirements in effect as of the date of issuance of this permit and any future revisions.
- B. Permit Actions. This permit may be suspended, revoked or modified for cause. The filing of a request for a permit modification or the notification of planned changes or anticipated noncompliance on the part of the Permittee, and the suspension or revocation does not stay the applicability or enforceability of any permit condition.
- C. Severability. The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
- D. Definitions. For the purpose of this permit, terms used herein shall have the same meaning as those in ADEM Admin. Code Division 13, unless this permit specifically provides otherwise; where terms are not otherwise defined, the meaning associated with such terms shall be as defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.
1. "EPA" for purposes of this permit means the United States Environmental Protection Agency.
 2. "Permit Application" for the purposes of this permit, means all permit application forms, design plans, operational plans, closure plans, technical data, reports, specifications, plats, geological and hydrological reports, and other materials which are submitted to the Department in pursuit of a solid waste disposal permit.
- E. Duties and Requirements.
1. Duty to Comply. The Permittee must comply with all conditions of this permit except to the extent and for the duration such noncompliance is authorized by a variance granted by the Department. Any permit noncompliance, other than noncompliance authorized by a variance, constitutes a violation of Code of Alabama 1975, §§ 22-27-1 *et seq.*, as amended, and is grounds for enforcement action, permit suspension, revocation, modification, and/or denial of a permit renewal application.
 2. Duty to Reapply. If the Permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the Permittee must apply for and obtain a new permit. The renewal application must be submitted to the Department at least 180 days before this permit expires.
 3. Permit Expiration. This permit and all conditions therein will remain in effect beyond the permit's expiration date if the Permittee has submitted a timely, complete application as required by Section I.E.2., and, through no fault of the Permittee, the Department has not made a final decision regarding the renewal application.
 4. Need to Halt or Reduce Activity Not A Defense. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the conditions of this permit.
 5. Duty to Mitigate. In the event of noncompliance with this permit, the Permittee shall take all reasonable steps to minimize releases to the environment, and shall carry out such measures as are reasonable to prevent significant adverse impacts on human health or the environment.

6. Proper Operation and Maintenance. The Permittee shall at all times properly operate and maintain all facilities and systems of control (and related appurtenances) that are installed or used by the Permittee to achieve compliance with the conditions of this permit.
7. Duty to Provide Information. If requested, the Permittee shall furnish to ADEM, within a reasonable time, any information that ADEM may reasonably need to determine whether cause exists for denying, suspending, revoking, or modifying this permit, or to determine compliance with this permit. If requested, the Permittee shall also furnish the Department with copies of records kept as a requirement of this permit.
8. Inspection and Entry. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the employees of the Department or their authorized representative to:
 - a. Enter at reasonable times the Permittee's premises where the regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit.
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
 - c. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.
 - d. Sample or monitor, at reasonable times, any substances or parameters at any location for the purposes of assuring permit compliance or as otherwise authorized by Code of Alabama 1975, §§ 22-27-1 *et seq.*
9. Monitoring, Corrective Actions, and Records.
 - a. Samples and measurements taken for the purpose of monitoring or corrective action shall be representative of the monitored activity. The methods used to obtain representative samples to be analyzed must be the appropriate method from Chapter 335-13-4 or the methods as specified in the Application attached hereto and incorporated by reference. Laboratory methods must be those specified in Standard Methods for the Examination of Water and Wastewater (American Public Health Association, latest edition), Methods for Chemical Analysis of Water and Wastes (EPA-600/4-79-020), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (EPA Publication SW-846, latest edition), other appropriate EPA methods, or as specified in the Application. All field tests must be conducted using approved EPA test kits and procedures.
 - b. The Permittee shall retain records, at the location specified in Section I.I., of all monitoring, or corrective action information, including all calibration and maintenance records, copies of all reports and records required by this permit, and records of all data used to complete the application for this permit for a period of at least three years from the date of the sample, measurement, report or record or for periods elsewhere specified in this permit. These periods may be extended by the request of the Department at any time and are automatically extended during the course of any unresolved enforcement action regarding this facility.
 - c. Records of monitoring and corrective action information shall include.
 - i. The exact place, date, and time of sampling or measurement.
 - ii. The individual(s) and company who performed the sampling or measurements.
 - iii. The date(s) analyses were performed.
 - iv. The individual(s) and company who performed the analyses.

- v. The analytical techniques or methods used.
 - vi. The results of such analyses.
- d. The Permittee shall submit all monitoring and corrective action results at the interval specified elsewhere in this permit.
- 10. Reporting Planned Changes. The Permittee shall notify the Department, in the form of a request for permit modification, at least 90 days prior to any change in the permitted service area, increase in the waste received, or change in the design or operating procedure as described in this permit, including any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- 11. Transfer of Permit. This permit may be transferred to a new owner or operator. All requests for transfer of permits shall be in writing and shall be submitted on forms provided by the Department. Before transferring ownership or operation of the facility during its operating life, the Permittee shall notify the new owner or operator in writing of the requirements of this permit.
- 12. Certification of Construction. The Permittee may not commence disposal of waste in any new cell or phase until the Permittee has submitted to the Department, by certified mail or hand delivery, a letter signed by both the Permittee and a professional engineer stating that the facility has been constructed in compliance with the permit. The Department must inspect the constructed cells or phases before the owner or operator can commence waste disposal unless the Permittee is notified that the Department will waive the inspection.
- 13. Compliance Schedules. Reports of compliance or noncompliance with or any progress reports on interim and final requirements contained in any compliance schedule required and approved by the Department shall be submitted no later than 14 days following each schedule date.
- 14. Other Noncompliance. The Permittee shall report all instances of noncompliance with the permit at the time monitoring reports are submitted.
- 15. Other Information. If the Permittee becomes aware that information required by the Application was not submitted or was incorrect in the Application or in any report to the Department, the Permittee shall promptly submit such facts or information. In addition, upon request, the Permittee shall furnish to the Department, within a reasonable time, information related to compliance with the permit.
- F. Design and Operation of Facility. The Permittee shall maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or nonsudden release of contaminants (including leachate and explosive gases) to air, soil, groundwater, or surface water, which could threaten human health or the environment.
- G. Inspection Requirements.
 - 1. The Permittee shall comply with all requirements set forth under ADEM Admin. Code Division 13.
 - 2. The Permittee shall conduct random inspections of incoming loads.
 - 3. Records of all inspections shall be included in the operating record.

H. Recordkeeping and Reporting.

1. The Permittee shall maintain a written operating record at the location specified in Section I.I. The operating record shall include:
 - a. Documentation of inspection and maintenance activities.
 - b. Daily Volume reports.
 - c. Personnel training documents and records.
 - d. Solid/Hazardous Waste Determination Forms for Industrial Wastes, and associated ADEM disposal approval correspondence for special wastes, industrial wastes, etc.
 - e. Groundwater monitoring records.
 - f. Explosive gas monitoring records.
 - g. Surface water and leachate monitoring records. Monitoring is subject to applicable conditions of Section VII. of the permit.
 - h. Copies of this Permit and the Application.
 - i. Copies of all variances granted by the Department, including copies of all approvals of special operating conditions (such as approvals for open burning,).
2. Quarterly Volume Report. Beginning with the effective date of this permit, the Permittee shall submit, within thirty (30) days after the end of each calendar quarter, a report summarizing the daily waste receipts for the previous (just ended) quarter. Copies of the quarterly reports shall be maintained in the operating record.
3. Monitoring and Corrective Action Reports. The Permittee shall submit reports on all monitoring and corrective activities conducted pursuant to the requirements of this permit, including, but not limited to, groundwater, surface water, explosive gas and leachate monitoring. The groundwater monitoring shall be conducted in March and September of each year and the groundwater reports shall be submitted to ADEM within ninety (90) days of the sampling event, or as directed by ADEM. The reports should contain all monitoring results and conclusions from samples and measurements conducted during the sampling period. Explosive gas monitoring must be submitted on a quarterly basis, and the reports should be submitted to the department and placed in the operating record within thirty (30) days of the monitoring event. Copies of the semi-annual groundwater and quarterly explosive gas monitoring reports shall be maintained in the operating record.
4. Availability, Retention, and Disposition of Records.
 - a. All records, including plans, required under this permit or Division 13 must be furnished upon request, and made available at reasonable times for inspection by any officer, employee, or representative of the Department.
 - b. All records, including plans, required under this permit or Division 13 shall be retained by the Permittee for a period of at least three years. The retention period for all records is extended automatically during the course of any unresolved enforcement action regarding the facility, or as requested by the Department.
 - c. A copy of records of waste disposal locations and quantities must be submitted to the Department and local land authority upon closure of the facility.

- I. Documents to be Maintained by the Permittee. The Permittee shall maintain, at the Noble Hill Landfill office, the following documents and amendments, revisions and modifications to these documents until an engineer certifies closure of the permitted landfill.
1. Operating record
 2. Closure Plan.
- J. Mailing Location. All reports, notifications, or other submissions which are required by this permit should be sent via signed mail (i.e. certified mail, express mail delivery service, etc.) or hand delivered to:
- Mailing Address.
Chief, Solid Waste Branch, Land Division
Alabama Department of Environmental Management
P.O. Box 301463
Montgomery, AL 36130-1463
- Physical Address.
Chief, Solid Waste Branch, Land Division
Alabama Department of Environmental Management
1400 Coliseum Blvd.
Montgomery, Alabama 36110-2400
- K. Signatory Requirement. All applications, reports or information required by this permit, or otherwise submitted to the Department, shall be signed and certified by the owner as follows:
1. If an individual, by the applicant.
 2. If a city, county, or other municipality or governmental entity, by the ranking elected official, or by a duly authorized representative of that person.
 3. If a corporation, organization, or other legal entity, by a principal executive officer, of at least the level of Vice President, or by a duly authorized representative of that person.
- L. Confidential Information. The Permittee may claim information submitted as confidential if the information is protected under Code of Alabama 1975 §§ 22-39-18, as amended.
- M. State Laws and Regulations. Nothing in this permit shall be construed to preclude the initiation of any legal action or to relieve the Permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation.

SECTION II. GENERAL OPERATING CONDITIONS

- A. Operation of Facility. The Permittee shall operate and maintain the disposal facility consistent with the Application, this permit, and ADEM Admin. Code, Division 13.
- B. Open Burning. The Permittee shall not allow open burning without prior written approval from the Department and other appropriate agencies. A burn request should be submitted in writing to the Department outlining why that burn request should be granted. This request should include, but not be limited to, specifically what areas will be utilized, types of waste to be burned, the projected starting and completion dates for the project, and the projected days and hours of operation. The approval, if granted, shall be included in the operating record.

- C. Prevention of Unauthorized Disposal. The Permittee shall follow the approved procedures for the detecting and preventing the disposal of free liquids, regulated hazardous waste, PCB's, and medical waste at the facility.
- D. Unauthorized Discharge. The Permittee shall operate the disposal facility in such a manner that there will be no water pollution or unauthorized discharge. Any discharge from the disposal facility or practice thereof may require a National Pollutant Discharge Elimination System permit under the Alabama Water Pollution Control Act.
- E. Industrial and Medical Waste Disposal. The Permittee shall dispose of industrial process waste as required by ADEM Admin. Code Division 13, and as specified in the Application. The Permittee, prior to disposal of industrial waste and/or medical waste, shall obtain from each generator a written certification that the material to be disposed does not contain free liquids, regulated hazardous wastes, regulated medical waste, or regulated PCB wastes.
- F. Boundary Markers. The Permittee shall ensure that the facility is identified with a sufficient number of permanent boundary markers that are at least visible from one marker to the next.
- G. Certified Operator. The Permittee shall be required to have an operator certified by the Department on-site during hours of operation, in accordance with the requirements of ADEM Admin. Code 335-13-12.

SECTION III. SPECIFIC MSW LANDFILL REQUIREMENTS

- A. Waste Identification and Management.
 - 1. Subject to the terms of this permit, the Permittee may dispose of the nonhazardous solid wastes listed in Section III.B. Disposal of other waste streams is prohibited, except waste that is granted a temporary or one-time waiver by the Director.
 - 2. The total permitted area for the Noble Hill Landfill is 208.38 ± acres with 121.06 ± acres permitted for disposal operations.
 - 3. The maximum average daily volume of waste disposed at the facility and approved by the Etowah County Commission, and as contained in the permit application shall not exceed 3,000 tons/day, except as provided under Rule 335-13-5-.06(2)(a)5. The average daily volume shall be computed as specified by Rule 335-13-5-.06(2)(a)5.(i).
- B. Waste Streams. The Permittee may accept for disposal nonhazardous solid wastes, noninfectious putrescible and nonputrescible wastes including but not limited to household garbage, commercial waste, industrial waste, construction and demolition debris, tires, appliances, trees, limbs, stumps, dried sludge, paper, and other similar type materials. Special waste approved by ADEM may also be accepted.
- C. Service Area. The Service area for the Noble Hill Landfill as contained in the permit application and approved by the Etowah County Commission is the contiguous United States.
- D. Special Waste. Disposal of special wastes is subject to a Hazardous/Solid Waste determination by ADEM.
 - 1. Asbestos Waste. The Permittee shall dispose of asbestos waste in accordance with Rule 335-13-4-.26.
 - 2. Foundry Sand. The Permittee shall dispose of foundry waste in accordance with Rule 335-13-4-.26.
 - 3. Petroleum Contaminated Waste. The Permittee shall dispose of petroleum contaminated waste in accordance with Rule 335-13-4-.26.

4. Municipal Solid Waste Ash. The Permittee shall dispose of municipal solid waste ash in accordance with Rule 335-13-4-.26.
- E. Liner Requirements. The Permittee has been approved install an alternate composite liner system as described in the Application consisting of one foot of soil with a hydraulic conductivity of 1×10^{-5} cm/sec or less, overlain by a geosynthetic clay liner (GCL) with hydraulic conductivity of 5×10^{-9} cm/sec or less and textured 60 mil High Density Polyethylene (HDPE) geomembrane, overlain by a double sided HDPE drainage net/filter fabric composite (Geocomposite), and overlain by one foot of protective material with a hydraulic conductivity of 1×10^{-3} cm/sec or less. The base of the composite liner system shall be a minimum of five (5) feet above the temporal fluctuation of the groundwater table. (See Section X.A.)
- F. Septic Tank Pumpings and Sewage Sludge. The Permittee shall not dispose of septic tank pumpings and/or sewage sludge unless specifically approved in writing by the department.
- G. Large Dead Animals and Highly Putrescible Wastes. The Permittee shall handle the disposal of large dead animals and/or highly putrescible waste as required by Rule 335-13-4-.22(1)(j).
- H. Cover Requirements. The Permittee shall cover all wastes as required by 335-13. All exposed waste shall be covered daily. The Permittee has been approved to utilize spray-on, polymer-based materials, or reusable geosynthetic cover as an alternate daily cover. At the conclusion of each week's operation, the Permittee shall be required to cover the active cell with a minimum six inches of compacted earth. (See Section X.B.)
- I. Waste Compaction. All waste shall be thoroughly compacted with adequate landfill equipment before the daily cover is applied. A completed daily cell shall not exceed eight feet in vertical thickness measured perpendicular to the slope of the preceding cell.
- J. Daily Cells. The Permittee has been granted a variance from Rule 335-13-4-.22(1)(b). All waste shall be confined to an area as small as possible and spread to a depth not exceeding two feet prior to compaction, and such compaction shall be accomplished on a face slope not to exceed 3 to 1 or as otherwise approved by the Department. (See Section X.C.)
- K. Security. The Permittee shall provide artificial and/or natural barriers, which prevent entry of unauthorized vehicular traffic to the facility.
- L. All Weather Access Roads. The Permittee shall provide an all-weather access road to the dumping face that is wide enough to allow passage of collection vehicles.
- M. Adverse Weather Disposal. The Permittee shall provide for disposal activities in adverse weather conditions.
- N. Personnel. The Permittee shall maintain adequate personnel to ensure continued and smooth operation of the facility.
- O. Equipment. The Permittee shall provide the landfill equipment as required by Rule 335-13-4-.22(1)(f).
- P. Environmental Monitoring and Treatment Structures. The Permittee shall provide protection and proper maintenance of environmental monitoring and treatment structures.
- Q. Vector Control. The Permittee shall provide for vector control as required by ADEM Admin. Code Division 13.
- R. Bulk or Noncontainerized Liquid Waste. The Permittee shall not dispose of bulk or noncontainerized liquid waste, or containers capable of holding liquids, unless the conditions of Rule 335-13-4-.22(1)(k) are met.
- S. Empty Containers. The Permittee shall render empty containers larger than normally found in household waste unsuitable for holding liquids prior to delivery to the landfill unit unless otherwise approved by the Department.

- T. Other Requirements. The Department may enhance or reduce any requirements for operating and maintaining the landfill as deemed necessary by the Land Division.
- U. Other Permits. The Permittee shall operate the landfill according to this and any other applicable permits.
- V. Scavenging and Salvaging Operations. The Permittee shall prevent scavenging and salvaging operations, except as part of a controlled recycling effort. Any recycling operation must be in accordance with plans submitted and approved by the Department.
- W. Signs. The Permittee shall provide a sign outlining instructions for use of the site. The sign shall be posted and have the information required by Rule 335-13-4-.22(1)(i).
- X. Litter Control. The Permittee shall control litter.
- Y. Fire Control. The Permittee shall provide fire control measures.

SECTION IV. GROUNDWATER MONITORING REQUIREMENTS

- A. The Permittee shall install and/or maintain a groundwater monitoring system, as specified below.
 - 1. The permittee shall construct and maintain the groundwater monitoring wells identified in Table IV.1. at the locations and schedules specified in the Application, and any other groundwater monitoring wells which are added (Section IV.A.3.) during the active life and the post closure care period.
 - 2. The Permittee shall install and maintain additional groundwater monitoring wells as necessary to assess changes in the rate and extent of any plume of contamination or as otherwise deemed necessary to maintain compliance with the ADEM Admin. Code.
 - 3. Prior to installing any additional groundwater monitoring wells, the Permittee shall submit a report to the Department with a permit modification request specifying the design, location and installation of any additional monitoring wells. This report shall be submitted within ninety (90) days prior to the installation which, at a minimum, shall include.
 - a. Well construction techniques including proposed casing depths, proposed total depth, and proposed screened interval of well(s);
 - b. Well development method(s);
 - c. A complete analysis of well construction materials;
 - d. A schedule of implementation for construction; and
 - e. Provisions for determining the lithologic characteristics, hydraulic conductivity and grain-size distribution for the applicable aquifer unit(s) at the location of the new well(s).
- B. Groundwater Monitoring Requirements.
 - 1. The Permittee shall determine the groundwater surface elevation at each monitoring well and piezometer identified in Table IV.1. each time the well or piezometer is sampled and at least semi-annually throughout the active life and post-closure care period.
 - 2. The Permittee shall determine the groundwater flow rate and direction in the first zone of saturation at least annually or each time groundwater is sampled and submitted as required by ADEM Admin. Code Division 13.

3. Prior to the initial receipt of waste at the facility, the Permittee shall sample, and analyze for the parameters listed in Appendix I of Rule 335-13-4-.27, and/or any other parameters specified by the Department in Table IV. 2., all monitoring wells identified in Section IV.A.2. to establish background water quality and/or as directed by Rule 335-13-4-.27(2)(j) and 335-13-4-.27(2)(a)(1). The records and results of this sampling and analysis activity shall be submitted to the Department, within ninety (90) days of the date of sampling.
 4. The Permittee shall sample and analyze all monitoring wells identified in Table IV.1 for the parameters listed in Appendix I of Rule 335-13-4-.27(3), and/or any other parameters specified by the Department in Table IV.3, on a semi-annual basis throughout the active life of the facility and the post-closure care period in accordance with Rule 335-13-4-.27(3). Sampling shall be conducted during March and September of each year, beginning with the effective date of this permit. **The facility shall submit to ADEM the semi-annual groundwater reports within ninety (90) days of the March and September sampling events.**
 4. In addition to the requirements of Sections IV., B.1., B.2., B.3. and B.4., the Permittee shall record water levels, mean sea level elevation measuring point, depth to water, and the results of field tests for pH and specific conductance at the time of sampling for each well.
 5. **The Permittee is approved inter well statistical analysis.**
- C. Sampling and Analysis Procedures. The Permittee shall use the following techniques and procedures when obtaining and analyzing samples from the groundwater monitoring wells described in Section IV.A. to provide a reliable indication of the quality of the groundwater.
1. Samples shall be collected, preserved, and shipped (when shipped off-site for analysis) in accordance with the procedures specified in the Application. Monitoring wells shall be bailed or pumped to remove at least four times the well volume of water. Slow recharge wells shall be bailed until dry. Wells shall be allowed to recharge prior to sampling.
 2. Samples shall be analyzed according to the procedures specified of the Application, Standard Methods for the Examination of Water and Wastewater (American Public Health Association, latest edition), Methods for Chemical Analysis of Water and Wastes (EPA-600/4-79-020), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (EPA Publication SW-846, latest edition), or other appropriate methods approved by this Department. All field tests must be conducted using approved EPA test kits and procedures.
 3. Samples shall be tracked and controlled using the chain-of-custody and QA/QC procedures specified of the Application.
- D. Recordkeeping and Reporting Requirements.
1. Recording of Results. For each sample and/or measurement taken pursuant to the requirements of this permit, the Permittee shall record the information required by Section I.E.9.c.
 2. Recordkeeping. Records and results of all groundwater monitoring, sampling, and analysis activities conducted pursuant to the requirements of this permit shall be included in the operating record required by Section I.I.1.
- E. Permit Modification. If at any time the Permittee or the Department determines that the groundwater monitoring system no longer satisfies the requirements of 335-13-4-.14 or Section IV.A. of this permit, the Permittee must, within 90 days, submit an application for a permit modification to make any necessary and/or appropriate changes to the system.

TABLE IV.1.
INSTALLED GROUNDWATER MONITORING WELLS

Well	Northing	Easting	Top Casing Elev. (ft)	Well Type
MW-1	1299876.44	574830.54	722.81	Dn. Grad
MW-2	1298877.61	574677.29	776.96	Dn. Grad
MW-3	1299760.91	573534.13	705.28	Dn. Grad
MW-4	1301194.96	575646.87	720.70	Dn. Grad
MW-5	1302751.60	575435.97	761.39	Up Grad
MW-6	1303135.24	573981.84	743.92	Up Grad

TABLE IV.2.
BACKGROUND GROUNDWATER MONITORING

NOTE: The parameters in this Table are those listed in Appendix I of Chapter 335-13-4.

NOTE: The Permittee shall conduct a minimum of four independent sampling events as the initial sampling event, and analyze for the parameters listed above, in order to establish background water quality. Following the four independent events, the Permittee can submit a request, with justification, for the deletion of or change in these parameters.

TABLE IV.3.
SEMI-ANNUAL GROUNDWATER MONITORING PARAMETERS

NOTE: The parameters in this Table are those listed in Appendix I of Chapter 335-13-4 , and/or any other waste stream specific parameters.

SECTION V. GAS MONITORING REQUIREMENTS

- A. The permittee shall design, construct, and operate the facility so as to control and monitor the generation and emission of explosive gases (such as methane), and so as to prevent said gases from collecting in, or around structures at concentrations exceeding the limits imposed by this permit.
- B. Systems and Equipment. The Permittee shall provide, install, and maintain gas monitoring and/or recovery systems and equipment.
- C. Concentration Limits. The Permittee shall prevent explosive gases from exceeding:
 - 1. The lower explosive limit at the facility boundary.
 - 2. Twenty-five percent (25%) of the lower explosive limit in a facility structure other than those which are components of the gas control and/or recovery system.
- D. Explosive Gas Monitoring.
 - 1. The Permittee shall monitor explosive gases at the facility. The gas monitoring program shall monitor explosive gas concentrations in the atmosphere, in the soil, and inside all structures at the facility, including but not limited to buildings, under bridges, and at other locations which are conducive to gas accumulation. Gas monitoring data shall be included in the operating record and be made available to ADEM during inspections and at other times upon request.
 - 2. The Permittee shall conduct the gas monitoring at least once in each quarter. The Permittee shall submit a report to ADEM within thirty (30) days after each monitoring event documenting the levels of explosive gases measured at the facility.
 - 3. In the event that explosive gas levels exceed the limits specified in this permit, the Permittee shall:
 - a. Immediately take all necessary steps to ensure immediate protection of human health and property.
 - b. Immediately notify ADEM of the explosive gas levels detected and the immediate steps taken to protect human health and property.
 - c. Within twenty (20) days, submit to ADEM for approval a remedial plan for the explosive gas releases. This plan shall describe the nature and extent of the problem and the proposed remedy. The plan shall be implemented upon approval by ADEM, but within sixty (60) days of detection. Within the sixty (60) days the plan shall be placed in the operating record of the facility and ADEM notified that the plan has been implemented.
 - 4. Monitoring points for the measurement of explosive gas concentrations in the soil and/or atmosphere shall be located along the landfill boundaries and shall be spaced no more than 300 feet apart. In areas where the landfill boundary is within 1000 feet of a structure, the monitoring points shall be not more than 100 feet apart.

SECTION VI – MUNICIPAL SOLID WASTE LANDFILL AIR EMISSIONS

This landfill may be subject to ADEM Admin. Code Division 3 Admin. Code and the Federal Clean Air Act. Contact the ADEM Air Division for applicable requirements and permits.

SECTION VII. LEACHATE AND SURFACE WATER MANAGEMENT REQUIREMENTS

The Permittee must collect and dispose of the leachate that is generated at the facility. The Permittee shall install a leachate collection system designed to maintain less than 12 inches (30 cm) depth of leachate over the liner. Prior to disposal, the permittee shall provide the Department with a letter from the receiving publicly or privately owned treatment works, approving the acceptance of the leachate. Discharges to publicly or privately owned treatment works may be subject to the requirements of the ADEM Water Division's State Indirect Discharge (SID) Program. The permittee shall construct and maintain run-on and run-off control structures. Surface water discharges from drainage control structures shall be permitted through the ADEM Water Division's National Pollutant Discharge Elimination System (NPDES) Program.

SECTION VIII. CLOSURE AND POST- CLOSURE REQUIREMENTS

The Permittee shall close the landfill and perform post-closure care of the landfill in accordance with Division 13.

- A. Final Cover. The Permittee shall grade final soil cover such that surface water does not pond over the permitted area as specified in the Application. The Permittee has been approved to use an alternate final cover system as specified in the application consisting of one foot of compacted soil with a hydraulic conductivity of 1×10^{-5} cm/sec, textured 40 mil High Density Polyethylene (HDPE) geomembrane, double sided geocomposite drainage system with a minimum transmissivity of 2×10^{-4} m²/sec, 18 inches of protective soil and 6 inches of topsoil capable of supporting vegetative cover. The Permittee has been granted a variance from Rule 335-13-4-.20(2)(c)(2). The maximum final grade of the final cover system shall not exceed a 3 to 1 slope. (See Section X.D. and X.E.)
- B. Vegetative Cover. The Permittee shall establish a vegetative or other appropriate cover within 90 days after completion of final grading requirements in the Application. Preparation of a vegetative cover shall include, but not be limited to, the placement of seed, fertilizer, mulch, and water.
- C. Notice of Intent. The Permittee shall place in the operating record and notify the Department of their intent to close the landfill prior to beginning closure.
- D. Completion of Closure Activities. The Permittee must complete closure activities of each landfill unit in accordance with the Closure Plan within 180 days of the last known receipt of waste.
- E. Certification of Closure. Following closure of each unit, the Permittee must submit to the Department a certification, signed by an engineer, verifying the closure has been completed according to the Closure Plan.
- F. Post-Closure Care Period. Post-closure care activities shall be conducted after closure of each unit throughout the life of this permit and continuing for a period of thirty (30) years following closure of the facility. The Department may shorten or extend the post-closure care period applicable to the solid waste disposal facility. The Permittee shall reapply in order to fulfill the post-closure care requirements of this permit.
- G. Post-Closure Maintenance. The Permittee shall provide post closure maintenance of the facility to include regularly scheduled inspections. This shall include maintenance of the cover, vegetation, monitoring devices and pollution control equipment and correction of other deficiencies that may be observed by ADEM. Monitoring requirements shall continue throughout the post closure period as determined by the Department unless all waste is removed and no unpermitted discharge to waters of the State have occurred.
- H. Post-Closure Use of Property. The Permittee shall ensure that post closure use of the property never be allowed to disturb the integrity of the final cover, liner, or any other component of the containment system. This shall preclude the growing of deep-rooted vegetation on the closed area.

- I. Certification of Post-Closure. Following post-closure of each unit, the Permittee must submit to the Department a certification, signed by an engineer, verifying the post-closure has been completed according to the Post-Closure Plan.
- J. Notice in Deed to Property. The Permittee shall record a notation onto the land deed containing the property utilized for disposal within 90 days after permit expiration, revocation or when closure requirements are achieved as determined by the Department as stated in the Application. This notation shall state that the land has been used as a solid waste disposal facility, the name of the Permittee, type of disposal activity, location of the disposal facility and beginning and closure dates of the disposal activity.
- K. Recording Instrument. The Permittee shall submit a certified copy of the recording instrument to the Department within 120 days after permit expiration, revocation, or as directed by the Department as described in the Application.
- L. Removal of Waste. If the Permittee, or any other person(s), wishes to remove waste, waste residues, the liner, or any contaminated soils, the owner must request and receive prior approval from the Department.

SECTION IX. FINANCIAL ASSURANCE

- A. The Permittee shall maintain detailed written cost estimates, in current dollars, at the landfill office and on file with ADEM in accordance with ADEM Admin. Code 335-13-4-.28.
- B. All cost estimates must be updated annually as required by ADEM Admin Code 335-13-4-28.
- C. The Permittee must place a copy of the financial assurance mechanism along with other items required by ADEM Admin. Code 335-13-4-28. into the landfill operating record and submitted to ADEM before the initial receipt of waste in the case of closure, post-closure care, or no later than 120 days after corrective action remedy has been selected.
- D. The financial assurance mechanisms must ensure that funds will be available in a timely fashion when needed.
- E. The financial assurance mechanisms must be legally valid, binding, and enforceable under state and federal law.
- F. The Permittee shall demonstrate continuous compliance with ADEM Admin. Code 335-13-4-28. by providing documentation of financial assurance in at least the amount that equals or exceeds the cost estimate. Changes in the financial assurance mechanism must be approved by the Department.
- G. The Permittee shall increase the closure, post-closure or corrective action cost estimates and the amount of financial assurance if changes in the closure, post-closure or correction action plans or landfill conditions increase the maximum cost.
- H. The Permittee may reduce the amount of financial assurance by submitting justification and a revised estimate to ADEM for approval.

SECTION X. VARIANCES & SPECIAL CONDITIONS

- A. The Permittee has been approved install an alternate composite liner system as described in the Application consisting of one foot of soil with a hydraulic conductivity of 1×10^{-5} cm/sec or less, overlain by a geosynthetic clay liner (GCL) with hydraulic conductivity of 5×10^{-9} cm/sec or less and textured 60 mil High Density Polyethylene (HDPE) geomembrane, overlain by a double sided HDPE drainage net/filter fabric composite (Geocomposite), and overlain by one foot of protective material with a hydraulic conductivity of 1×10^{-3} cm/sec or less. (See Section III.E.)

- B. The Permittee has been approved to utilize spray-on, polymer-based materials, or reusable geosynthetic cover as an alternate daily cover. At the conclusion of each week's operation, the Permittee shall be required to cover the active cell with a minimum six inches of compacted earth. (See Section III.H.)
- C. The Permittee has been granted a variance from Rule 335-13-4-.22(1)(b). All waste shall be confined to an area as small as possible and spread to a depth not exceeding two feet prior to compaction, and such compaction shall be accomplished on a face slope not to exceed 3 to 1 or as otherwise approved by the Department. (See Section III.J.)
- D. The Permittee has been approved to use an alternate final cover system as specified in the application consisting of one foot of compacted soil with a hydraulic conductivity of 1×10^{-5} cm/sec, textured 40 mil High Density Polyethylene (HDPE) geomembrane, double sided geocomposite drainage system with a minimum transmissivity of 2×10^{-4} m²/sec, 18 inches of protective soil and 6 inches of topsoil capable of supporting vegetative cover. (See Section VIII.A.)
- E. The Permittee has been granted a variance from Rule 335-13-4-.20(2)(c)(2). The maximum final grade of the final cover system shall not exceed a 3 to 1 slope. (See Section VIII.A.)
- F. The Permittee has been granted a special condition allowing mining of the closed sanitary landfill located within the facility boundary. This mined material will be disposed of in the permitted landfill (Permit No. 28-08).

Any variance granted by the Department may be terminated by the Department whenever the Department finds, after notice and opportunity for hearing, that the petitioner is in violation of any requirement, condition, schedule, limitation or any other provision of the variance, or that operation under the variance does not meet the minimum requirements established by state and federal laws.

APPENDIX C

Sand Valley Landfill Solid Waste Disposal Facility Permit



Alabama Department of Environmental Management
adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ■ FAX (334) 271-7950

July 26, 2024

Mr. Mike Classen
750 E. Jefferson Pike
Murfreesboro, Tennessee 37130

Re: Permit Renewal and Modification
Sand Valley Landfill
Permit No. 25-04

Dear Mr. Classen:

Enclosed is the Solid Waste Disposal Facility Permit for the Sand Valley Landfill, Permit No. 25-04. This permit is effective July 26, 2024, and the expiration date will be July 25, 2034.

If you should have any questions, please contact Hunter Baker of the Solid Waste Engineering Section at 334-270-5607.

Sincerely,

Jason Wilson, Chief
Solid Waste Branch
Land Division

JW/hb



FINAL DETERMINATION
PERMIT RENEWAL AND MODIFICATION

GEK, Incorporated
3345 County Road 209
Collinsville, Alabama 35961

Sand Valley Landfill
Permit No. 25-04

July 26, 2024

GEK Incorporated has submitted to the Alabama Department of Environmental Management (ADEM) an application for renewal and modification of the Solid Waste Disposal Facility Permit for a municipal solid waste landfill known as the Sand Valley Landfill, Permit No. 25-04. Modifications include a reduction in disposal acreage, revisions to designs including grading, stormwater management, leachate collection, and solidification plans, and increased service area and maximum average daily volume. The waste stream for the Sand Valley Landfill remains non-hazardous solid wastes, non-infectious, putrescible and non-putrescible wastes including but not limited to household garbage, commercial waste, industrial waste, construction and demolition debris, ash, treated medical waste, sludge, drilling fluids and cuttings, asbestos, foundry sand, tires, tree limbs, stumps and similar type materials, and special waste approved by ADEM. The service area for the Sand Valley Landfill is Blount, Calhoun, Cherokee, Clay, Cleburne, Dekalb, Etowah, Jackson, Limestone, Madison, Marshall, Morgan, Randolph, St. Clair, and Talladega Counties of Alabama; Bartow, Carroll, Catoosa, Chattooga, Cherokee, Clayton, Cobb, Dade, Dekalb, Douglass, Floyd, Forsyth, Fulton, Gordon, Gwinnett, Harrelson, Murray, Paulding, Pickens, Polk, Walker, and Whitfield Counties of Georgia; Bradley, Hamilton, and Marion Counties of Tennessee. The maximum average daily volume of waste disposed at the Sand Valley Landfill is 2100 tons per day. An extension of the previously approved variances was requested and is granted in the renewed permit. All other permit conditions remain the same.

The Sand Valley Landfill is described as being located in Sections 13 and 14, Township 8 South, Range 7 East in Dekalb County, Alabama. The Sand Valley Landfill consists of 318.87 acres with 229 acres for disposal operations.

A public comment period was announced by ADEM on June 11, 2024 and ended on July 16, 2024. The permit application and draft permit were available at the Alabama Department of Environmental Management and ADEM's website. The Department received no comments during the comment period.

The Land Division has determined that the permit application meets the applicable requirements of ADEM's Administrative Code Division 13.

Technical Contact:
Hunter Baker
Solid Waste Engineering Section
Land Division



SOLID WASTE DISPOSAL FACILITY PERMIT

PERMITTEE: GEK, Inc., a wholly owned subsidiary of BFI Waste Systems of North America, Inc.

FACILITY NAME: Sand Valley Landfill

FACILITY LOCATION: Section 13 and 14, Township 8 South, Range 7 East in Dekalb County, Alabama. The permitted facility boundary is approximately 318.87 acres (Tract 1 approximately 160.15 acres and Tract 2 approximately 158.72 acres) with a solid waste disposal area that consists of approximately 229 acres including a 2 acre closed construction and demolition waste disposal area.

PERMIT NUMBER: 25-04

PERMIT TYPE: Municipal Solid Waste

WASTE APPROVED FOR DISPOSAL: Nonhazardous solid wastes, noninfectious, putrescible and nonputrescible wastes including but not limited to household garbage, commercial waste, industrial waste, construction and demolition debris, ash, treated medical waste, sludge, drilling fluids and cuttings, asbestos, foundry sand, tires, trees limbs, stumps and similar type materials. Special waste approved by ADEM may also be accepted.

APPROVED WASTE VOLUME: Maximum Average Daily Volume of 2100 tons per day

APPROVED SERVICE AREA: Blount, Calhoun, Cherokee, Clay, Cleburne, Dekalb, Etowah, Jackson, Limestone, Madison, Marshall, Morgan, Randolph, St. Clair, and Talladega Counties of Alabama; Bartow, Carroll, Catoosa, Chattooga, Cherokee, Clayton, Cobb, Dade, Dekalb, Douglass, Floyd, Forsyth, Fulton, Gordon, Gwinnett, Harrelson, Murray, Paulding, Pickens, Polk, Walker, and Whitfield Counties of Georgia; Bradley, Hamilton, and Marion Counties of Tennessee.

In accordance with and subject to the provisions of the Solid Wastes & Recyclable Materials Act, as amended, Code of Alabama 1975, SS 22-27-1 to 22-27-27 ("SWRMMA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, SS 22-22A-1 to 22-22A-15, and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to dispose of the above-described solid wastes at the above-described facility location.

ISSUANCE DATE: July 26, 2024
EFFECTIVE DATE: July 26, 2024
EXPIRATION DATE: July 25, 2034

Alabama Department of Environmental Management

**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
SOLID WASTE PERMIT**

Permittee: GEK, Inc., a wholly owned subsidiary of BFI Waste Systems of North America, Inc.
3345 County Road 209
Collinsville, Alabama 35961

Landfill Name: Sand Valley Landfill

Landfill Location: Section 13 and 14, Township 8 South, Range 7 East in Dekalb County, Alabama

Permit No. 25-04

Landfill Type: Municipal Solid Waste

Pursuant to the Solid Wastes & Recyclable Materials Management Act, Code of Alabama 1975, §§22-27-1, et seq., as amended, and attendant regulations promulgated thereunder by the Alabama Department of Environmental Management (ADEM), this permit is issued to GEK, Inc., a wholly owned subsidiary of BFI Waste Systems of North America (hereinafter called the Permittee), to operate a solid waste disposal facility, known as Sand Valley Landfill.

The Permittee must comply with all terms and conditions of this permit. This permit consists of the conditions set forth herein (including those in all attachments), and the applicable regulations contained in Chapters 335-13-1 through 335-13-16 of the ADEM Administrative Code (referred to as the "ADEM Admin. Code"). Rules cited are set forth in this document for the purpose of Permittee reference. A Rule that is cited incorrectly in this document does not constitute grounds for noncompliance on the part of the Permittee. Applicable ADEM Administrative Codes are those that are in effect on the date of issuance of this permit or the revisions approved after permit issuance.

This permit is based on the information submitted to ADEM on July 22, 2022, and as amended and known as the Permit Application (hereby incorporated by reference and hereinafter referred to as the Application). Inaccuracies found in this information could lead to the termination or modification of this permit and potential enforcement action. The Permittee must inform ADEM of deviations from or changes in the information in the Application that would affect the Permittee's ability to comply with the applicable ADEM Admin. Code or permit conditions.

This permit is effective as of **July 26, 2024** and shall remain in effect until **July 25, 2034**, unless suspended or revoked.



Alabama Department of Environmental Management

7/26/2024

Date Signed

SECTION I. STANDARD CONDITIONS.

- A. Effect of Permit. The Permittee is allowed to dispose of nonhazardous solid waste in accordance with the conditions of this permit and ADEM Admin. Code 335-13. Issuance of this permit does not convey property rights of any sort or an exclusive privilege, nor does it authorize the injury to persons or property, the invasion of other private rights, or the infringement of state or local laws or regulations. Except for actions brought under Code of Alabama 1975, §§22-27-1, *et seq.*, as amended, compliance with the conditions of this permit shall be deemed to be compliance with applicable requirements in effect as of the date of issuance of this permit and future revisions.
- B. Permit Actions. This permit may be suspended, revoked or modified for cause. The filing of a request for a permit modification or the notification of planned changes or anticipated noncompliance on the part of the Permittee, and the suspension or revocation does not stay the applicability or enforceability of permit condition.
- C. Severability. The provisions of this permit are severable, and if a provision of this permit, or the application of a provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
- D. Definitions. For the purpose of this permit, terms used herein shall have the same meaning as those in ADEM Admin. Code 335-13, unless this permit specifically provides otherwise; where terms are not otherwise defined, the meaning associated with such terms shall be as defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.
1. "EPA" means the United States Environmental Protection Agency.
 2. "Permit Application" means all permit application forms, design plans, operational plans, closure plans, technical data, reports, specifications, plats, geological and hydrological reports, and other materials which are submitted to ADEM in pursuit of a solid waste disposal permit.
- E. Duties and Requirements.
1. Duty to Comply. The Permittee must comply with all conditions of this permit except to the extent and for the duration such noncompliance is authorized by a variance granted by ADEM. Any permit noncompliance constitutes a violation of Code of Alabama 1975, §§22-27-1 *et seq.*, as amended, and is grounds for enforcement action, permit suspension, revocation, modification, and/or denial of a permit renewal application.
 2. Duty to Reapply. If the Permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the Permittee must apply for and obtain a new permit. The renewal application must be submitted to ADEM at least 180 days before this permit expires.
 3. Permit Expiration. This permit and all conditions therein will remain in effect beyond the permit's expiration date if the Permittee has submitted a timely, complete application as required by Section I.E.2., and, through no fault of the Permittee, ADEM has not made a final decision regarding the renewal application.
 4. Need to Halt or Reduce Activity Not a Defense. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the conditions of this permit.
 5. Duty to Mitigate. In the event of noncompliance with this permit, the Permittee shall take all reasonable steps to minimize releases to the environment, and shall carry out such measures as are reasonable to prevent significant adverse impacts on human health or the environment.
 6. Proper Operation and Maintenance. The Permittee shall at all times properly operate and maintain all facilities and systems of control (and related appurtenances) that are installed or used by the Permittee to achieve compliance with the conditions of this permit.

7. Duty to Provide Information. If requested, the Permittee shall furnish to ADEM, within a reasonable time, the information that ADEM may reasonably need to determine whether cause exists for denying, suspending, revoking, or modifying this permit, or to determine compliance with this permit. If requested, the Permittee shall also furnish ADEM with copies of records kept as a requirement of this permit.
8. Inspection and Entry. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the employees of ADEM or their authorized representative to:
 - a. Enter at reasonable times the Permittee's premises where the regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit.
 - b. Have access to and copy, at reasonable times, the records that must be kept under the conditions of this permit.
 - c. Inspect, at reasonable times, the facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.
 - d. Sample or monitor, at reasonable times, the substances or parameters at a location for the purposes of assuring permit compliance or as otherwise authorized by Code of Alabama 1975, §§22-27-1 *et seq.*
9. Monitoring, Corrective Actions, and Records.
 - a. Samples and measurements taken for the purpose of monitoring or corrective action shall be representative of the monitored activity. The methods used to obtain representative samples to be analyzed must be the appropriate method from ADEM Admin. Code 335-13-4 or the methods as specified in the Application attached hereto and incorporated by reference. Laboratory methods must be those specified in Standard Methods for the Examination of Water and Wastewater (American Public Health Association, latest edition), Methods for Chemical Analysis of Water and Wastes (EPA-600/4-79-020), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (EPA Publication SW-846, latest edition), other appropriate EPA methods, or as specified in the Application. All field tests must be conducted using approved EPA test kits and procedures.
 - b. The Permittee shall retain records, at the location specified in Section I.I., of all monitoring, or corrective action information, including all calibration and maintenance records, copies of all reports and records required by this permit, and records of all data used to complete the application for this permit for a period of at least three years from the date of the sample, measurement, report or record or for periods elsewhere specified in this permit. These periods may be extended by the request of ADEM at any time and are automatically extended during the course of an unresolved enforcement action regarding this facility.
 - c. Records of monitoring and corrective action information shall include.
 - i. The exact place, date, and time of sampling or measurement.
 - ii. The individual(s) and company who performed the sampling or measurements.
 - iii. The date(s) analyses were performed.
 - iv. The individual(s) and company who performed the analyses.
 - v. The analytical techniques or methods used.
 - vi. The results of such analyses.
 - d. The Permittee shall submit all monitoring and corrective action results at the interval specified elsewhere in this permit.

10. Reporting Planned Changes. The Permittee shall notify ADEM, in the form of a request for permit modification, at least 120 days prior to a change in the permitted service area, increase in the waste received, or change in the design or operating procedure as described in this permit, including planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
 11. Transfer of Permit. This permit may be transferred to a new owner or operator. All requests for transfer of permits shall be in writing and shall be submitted on forms provided by ADEM. Before transferring ownership or operation of the facility during its operating life, the Permittee shall notify the new owner or operator in writing of the requirements of this permit.
 12. Certification of Construction. Before the Permittee may commence disposal of waste in any new cell or phase:
 - a. The Permittee must submit a letter to the Department signed by both the Permittee and a professional engineer stating that the facility has been constructed in compliance with the permit.
 - b. The Department must inspect the new cells or phases unless the Permittee is notified that the Department will waive the inspection.
 - c. The Permittee may not commence disposal activities in any new cells or phases until approval of the new cells or phases is granted by the Department.
 13. Noncompliance. The Permittee shall report all instances of noncompliance with the permit at the time noncompliance is discovered.
 14. Other Information. If the Permittee becomes aware that information required by the Application was not submitted or was incorrect in the Application or in a report to ADEM, the Permittee shall promptly submit such facts or information. In addition, upon request, the Permittee shall furnish to ADEM, within a reasonable time, information related to compliance with the permit.
- F. Design and Operation of Facility. The Permittee shall maintain and operate the facility to minimize the possibility of a fire, explosion, or an unplanned sudden or nonsudden release of contaminants (including leachate and explosive gases) to air, soil, groundwater, or surface water, which could threaten human health or the environment.
- G. Inspection Requirements.
1. The Permittee shall comply with all requirements set forth under ADEM Admin. Code 335-13-4-.21(1)(b).
 2. The Permittee shall conduct random inspections of incoming loads.
 3. Records of all inspections shall be included in the operating record.
- H. Recordkeeping and Reporting.
1. The Permittee shall maintain a written operating record at the location specified in Section I.I. The operating record shall include:
 - a. Documentation of inspection and maintenance activities.
 - b. Daily Volume reports.
 - c. Personnel training documents and records.
 - d. Solid/Hazardous Waste Determination Forms for Industrial Wastes, and associated ADEM disposal approval correspondence for special wastes, industrial wastes, etc.
 - e. Groundwater monitoring records.

- f. Explosive gas monitoring records.
 - g. Surface water and leachate monitoring records. Monitoring is subject to applicable conditions of Section VII. of the permit.
 - h. Copies of this Permit and the Application.
 - i. Copies of all variances granted by ADEM, including copies of all approvals of special operating conditions (such as approvals for open burning,).
2. Quarterly Volume Report. Beginning with the effective date of this permit, the Permittee shall submit, within thirty (30) days after the end of each calendar quarter, a report summarizing the daily waste receipts for the previous (just ended) quarter. Copies of the quarterly reports shall be maintained in the operating record.
3. Monitoring and Corrective Action Reports. The Permittee shall submit reports on all monitoring and corrective activities conducted pursuant to the requirements of this permit, including, but not limited to, groundwater, surface water, explosive gas and leachate monitoring. The groundwater monitoring shall be conducted in March and September of each year and the reports shall be submitted at least semi-annually. The reports should contain all monitoring results and conclusions from samples and measurements conducted during the sampling period. Explosive gas monitoring must be submitted on a quarterly basis, and the reports should be submitted to ADEM and placed in the operating record within 30 days of the monitoring event. Copies of the semi-annual groundwater and quarterly explosive gas monitoring reports shall be maintained in the operating record.
4. Availability, Retention, and Disposition of Records.
- a. All records, including plans, required under this permit or ADEM Admin. Code 335-13 must be furnished upon request, and made available at reasonable times for inspection by an officer, employee, or representative of ADEM.
 - b. All records, including plans, required under this permit or ADEM Admin. Code 335-13 shall be retained by the Permittee for a period of at least three years. The retention period for all records is extended automatically during the course of an unresolved enforcement action regarding the facility, or as requested by ADEM.
 - c. A copy of records of waste disposal locations and quantities must be submitted to ADEM and local land authority upon closure of the facility.
- I. Documents to be Maintained by the Permittee. The Permittee shall maintain, at the Sand Valley Landfill office, the following documents and amendments, revisions and modifications to these documents until an engineer certifies closure:
- 1. Operating record.
 - 2. Closure Plan.
- J. Mailing Location. All reports, notifications, or other submissions which are required by this permit should be sent via signed mail (i.e. certified mail, express mail delivery service, etc.) or hand delivered to:
- 1. Mailing Address.
Chief, Solid Waste Branch, Land Division
Alabama Department of Environmental Management
P.O. Box 301463
Montgomery, AL 36130-1463

2. Physical Address.
Chief, Solid Waste Branch, Land Division
Alabama Department of Environmental Management
1400 Coliseum Blvd.
Montgomery, Alabama 36110-2400

- K. Signatory Requirement. All applications, reports or information required by this permit, or otherwise submitted to ADEM, shall be signed and certified by the owner as follows:
1. If an individual, by the applicant.
 2. If a city, county, or other municipality or governmental entity, by the ranking elected official, or by a duly authorized representative of that person.
 3. If a corporation, organization, or other legal entity, by a principal executive officer, of at least the level of Vice President, or by a duly authorized representative of that person.
- L. Confidential Information. The Permittee may claim information submitted as confidential if the information is protected under Code of Alabama 1975 §22-39-18, as amended.
- M. State Laws and Regulations. Nothing in this permit shall be construed to preclude the initiation of a legal action or to relieve the Permittee from the responsibilities, liabilities, or penalties established pursuant to an applicable state law or regulation.

SECTION II. GENERAL OPERATING CONDITIONS.

- A. Operation of Facility. The Permittee shall operate and maintain the disposal facility consistent with the Application, this permit, and ADEM Admin. Code 335-13.
- B. Open Burning. The Permittee shall not allow open burning without prior written approval from ADEM and other appropriate agencies. A burn request should be submitted in writing to ADEM outlining why that burn request should be granted. This request should include, but not be limited to, specifically what areas will be utilized, types of waste to be burned, the projected starting and completion dates for the project, and the projected days and hours of operation. The approval, if granted, shall be included in the operating record.
- C. Prevention of Unauthorized Disposal. The Permittee shall follow the approved procedures for detecting and preventing the disposal of free liquids, regulated hazardous waste, PCB's, medical waste, and other unauthorized waste streams at the facility.
- D. Unauthorized Discharge. The Permittee shall operate the disposal facility in such a manner that there will be no water pollution or unauthorized discharge. A discharge from the disposal facility or practice thereof may require a National Pollutant Discharge Elimination System permit under the Alabama Water Pollution Control Act.
- E. Industrial and Medical Waste Disposal. The Permittee shall dispose of industrial process waste in accordance with ADEM Admin. Code 335-13, and as specified in the Application. The Permittee, prior to disposal of industrial waste and/or medical waste, shall obtain from each generator a written certification that the material to be disposed does not contain free liquids, regulated hazardous wastes, regulated medical waste, or regulated PCB wastes.
- F. Boundary Markers. The Permittee shall ensure that the facility is identified with a sufficient number of permanent boundary markers that are at least visible from one marker to the next.
- G. Certified Operator. The Permittee shall be required to have an operator certified by the Department on-site during hours of operation, in accordance with the requirements of ADEM Admin. Code 335-13-12.

SECTION III. SPECIFIC MSW LANDFILL REQUIREMENTS.

A. Waste Identification and Management.

1. Subject to the terms of this permit, the Permittee may dispose of the nonhazardous solid wastes listed in Section III.B. Disposal of other waste streams is prohibited, except waste that is granted a temporary or one-time waiver by the Director.
2. The permitted facility boundary for the Sand Valley Landfill is approximately 318.87 acres (Tract 1 approximately 160.15 acres and Tract 2 approximately 158.72 acres) with a solid waste disposal area that consists of approximately 229 acres including a 2 acre closed construction and demolition waste disposal area.

Plans are only approved for cells B-1 through B-6 in Tract 2, which contain approximately 56.3 acres of the approximately 125 acres of disposal area in Tract 2.

3. The maximum average daily volume of waste disposed at the facility, as contained in the permit application, shall not exceed 2100 tons/day. Should the average daily volume exceed this value by 20% or 100 tons/day, whichever is less, for two (2) consecutive quarters the permittee shall be required to modify the permit in accordance with ADEM Admin. Code 335-13-5-.06(2)(b)2. An increase in maximum average daily volume shall not be approved by ADEM unless the permittee has received local approval for the increased maximum average daily volume. The average daily volume shall be computed as specified by ADEM Admin. Code 335-13-4-.22(2)(g).

B. Waste Streams.

The Permittee may accept for disposal non-hazardous solid wastes, non-infectious, putrescible and non-putrescible wastes including but not limited to household garbage, commercial waste, industrial waste, construction and demolition debris, ash, treated medical waste, sludge, drilling fluids and cuttings, asbestos, foundry sand, tires, tree limbs, stumps and similar type materials. Special waste approved by ADEM may also be accepted.

- C. Service Area. The service area for this landfill shall be Blount, Calhoun, Cherokee, Clay, Cleburne, Dekalb, Etowah, Jackson, Limestone, Madison, Marshall, Morgan, Randolph, St. Clair, and Talladega Counties of Alabama; Bartow, Carroll, Catoosa, Chattooga, Cherokee, Clayton, Cobb, Dade, Dekalb, Douglass, Floyd, Forsyth, Fulton, Gordon, Gwinnett, Harrelson, Murray, Paulding, Pickens, Polk, Walker, and Whitfield Counties of Georgia; Bradley, Hamilton, and Marion Counties of Tennessee.

- D. Special Waste. The Permittee may dispose of special wastes in accordance with ADEM Admin. Code 335-13.

1. Asbestos Waste. The Permittee shall dispose of asbestos waste in accordance with ADEM Admin. Code 335-13-4-.26.
2. Foundry Sand. The Permittee shall dispose of foundry waste in accordance with ADEM Admin. Code 335-13-4-.26.
3. Petroleum Contaminated Waste. The Permittee shall dispose of petroleum contaminated waste in accordance with ADEM Admin. Code 335-13-4-.26.
4. Municipal Solid Waste Ash. The Permittee shall dispose of municipal solid waste ash in accordance with ADEM Admin. Code 335-13-4-.26.

- E. Liner Requirements. The Permittee shall install a composite liner system or an alternate liner system as described in the application. The composite liner system shall consist of a geosynthetic reinforcing layer, two foot thick cohesive soil layer with a permeability of 1×10^{-7} cm/sec, 60 mil HDPE geomembrane, geocomposite (geonet with geotextile bonded to both sides), and a one foot thick protective soil layer with a permeability of $k \geq 10^{-4}$ cm/sec. The alternate liner system shall consist of a geosynthetic reinforcing layer, one foot thick cohesive soil layer with a permeability of 1×10^{-5} cm/sec, geosynthetic clay liner, 60 mil HDPE geomembrane, geocomposite (geonet with geotextile bonded to both sides), and a one

foot thick protective soil layer with a permeability of $k \geq 10^{-4}$ cm/sec. The Permittee has been approved for an alternate protective cover for Phases A-3(2), A-3(3), A-3(4), and A-4) as described in the permit application submitted to ADEM on June 15, 2010 and March 31, 2011. The alternate protective cover layer will consist of 12 inches of soil with granular chimney drains as described in the permit application submitted to ADEM on March 31, 2011. The base of the composite liner system shall be a minimum of five (5) feet above the highest measured groundwater level as determined by ADEM Admin. Code 335-13-4-.11(2)(a).

- F. Septic Tank Pumpings and Sewage Sludge. The Permittee shall not dispose of septic tank pumpings and/or sewage sludge unless specifically approved in writing by ADEM.
- G. Large Dead Animals and Highly Putrescible Wastes. The Permittee shall handle the disposal of large dead animals and/or highly putrescible waste as required by ADEM Admin. Code 335-13-4-.22(1)(j). Disposal is allowed only in the municipal solid waste disposal area.
- H. Cover Requirements. The Permittee shall cover all wastes as required by ADEM Admin. Code 335-13. The Permittee may utilize automobile shredder fluff, contaminated soils, and tarps as an alternate daily cover. The alternate daily covers may only be used to cover interior slopes of the cells. All exterior slopes shall be covered with soil in accordance with the approved plans and permit. The Permittee may utilize a 50% on-site soil by volume with the remaining volume of the mixture being tire chips as an alternate daily cover. The handling and storage of tires and tire chips shall be in accordance ADEM Admin. Code 335-4. If an alternate daily cover is utilized, the Permittee shall be required to cover the active cell with six inches of earthen cover at the conclusion of each week's activities. (See Section X. 4. and 5.)
- I. Waste Compaction. All waste shall be thoroughly compacted with adequate landfill equipment before the daily or weekly cover is applied. A completed daily cell shall not exceed fifteen feet in vertical thickness measured perpendicular to the slope of the preceding cell. (See Section X.2.)
- J. Daily Cells. All waste shall be confined to an area as small as possible and spread to a depth not exceeding two feet prior to compaction, and such compaction shall be accomplished on a face slope not to exceed 4 to 1 or as otherwise approved by ADEM.

The Permittee has been granted a variance from ADEM Admin. Code 335-13-4-.22(1)(b) requiring all waste to be confined to as small an area as possible. The Permittee shall be allowed to operate two working faces temporarily during the initial placement of waste in each newly constructed cell or while the landfill is receiving friable asbestos. The second working face will be temporary and will only be used until each newly constructed cell is covered by a sufficiently thick initial lift of municipal solid waste or while the landfill is receiving friable asbestos. Each working face must be combined to an area as small as possible. (See Section X.3.)

- K. Security. The Permittee shall provide artificial and/or natural barriers, which prevent entry of unauthorized vehicular traffic to the facility.
- L. All Weather Access Roads. The Permittee shall provide an all-weather access road to the dumping face that is wide enough to allow passage of collection vehicles.
- M. Adverse Weather Disposal. The Permittee shall provide for disposal activities in adverse weather conditions.
- N. Personnel. The Permittee shall maintain adequate personnel to ensure continued and smooth operation of the facility.
- O. Equipment. The Permittee shall provide the landfill equipment as required by ADEM Admin. Code 335-13-4-.22(1)(f).
- P. Environmental Monitoring and Treatment Structures. The Permittee shall provide protection and proper maintenance of environmental monitoring and treatment structures.
- Q. Vector Control. The Permittee shall provide for vector control as required by ADEM Admin. Code 335-13.
- R. Bulk or Noncontainerized Liquid Waste. The Permittee shall not dispose of bulk or noncontainerized liquid waste, or containers capable of holding liquids, unless the conditions of ADEM Admin. Code 335-13-4-.22(1)(k) are met.

- S. Empty Containers. The Permittee shall render empty containers larger than normally found in household waste unsuitable for holding liquids prior to delivery to the landfill unit unless otherwise approved by ADEM.
- T. Other Requirements. ADEM may enhance or reduce the requirements for operating and maintaining the landfill as deemed necessary by the Land Division.
- U. Other Permits. The Permittee shall operate the landfill according to this and other applicable permits.
- V. Scavenging and Salvaging Operations. The Permittee shall prevent scavenging and salvaging operations, except as part of a controlled recycling effort.
- W. Signs. The Permittee shall provide a sign outlining instructions for use of the site. The sign shall be posted and have the information required by ADEM Admin. Code 335-13-4-.22(1)(i).
- X. Litter Control. The Permittee shall control litter.
- Y. Fire Control. The Permittee shall provide fire control measures.

SECTION IV. GROUNDWATER MONITORING REQUIREMENTS.

- A. The Permittee shall install and/or maintain a groundwater monitoring system, as specified below.
 - 1. The permittee shall maintain the groundwater monitoring wells and piezometers identified in Table 1 at the locations specified in the Application, and any other groundwater monitoring wells which are added during the active life and the post closure care period.
 - 2. The Permittee shall install and maintain additional groundwater monitoring wells as necessary to address changes in the rate and extent of a plume of contamination or as otherwise deemed necessary to maintain compliance with ADEM Admin. Code 335-13.
 - 3. Prior to installing additional groundwater monitoring wells, the Permittee shall submit a plan to ADEM with a permit modification request specifying the design, location and installation of additional monitoring wells. This plan shall be submitted at least one hundred and twenty (120) days prior to the installation which, at a minimum, shall include.
 - a. Well construction techniques including proposed casing depths, proposed total depth, and proposed screened interval of well(s);
 - b. Well development method(s);
 - c. A complete analysis of well construction materials;
 - d. A schedule of implementation for construction; and
 - e. Provisions for determining the lithologic characteristics, hydraulic conductivity and grain-size distribution for the applicable aquifer unit(s) at the location of the new well(s).
- B. Groundwater Monitoring Requirements.
 - 1. The Permittee shall determine the groundwater surface elevation at each monitoring well and piezometer identified in Table 1 each time the well or piezometer is sampled and at least semi-annually throughout the active life and post-closure care period.
 - 2. The Permittee shall determine the groundwater flow rate and direction in the first zone of saturation at least annually or each time groundwater is sampled and submit as required by ADEM Admin. Code 335-13.

3. Prior to the initial receipt of waste at the facility, the Permittee shall sample, and analyze for the parameters listed in Appendix I of ADEM Admin. Code 335-13-4-.27, in all monitoring wells identified in Section IV.A.2. to establish background water quality and/or as directed by ADEM Admin. Code 335-13-4-.27(2)(j) and ADEM Admin. Code 335-13-4-.27(2)(a)(1). The records and results of this sampling and analysis activity shall be submitted to ADEM, within sixty (60) days of the date of sampling.
4. The Permittee shall sample, and analyze all monitoring wells identified in Table 1 for the parameters listed in Appendix I of ADEM Admin. Code 335-13-4-.27(3), on a semi-annual basis throughout the active life of the facility and the post-closure care period in accordance with ADEM Admin. Code 335-13-4-.27(3). Sampling shall be conducted during March and September of each year, beginning with the effective date of this permit.
5. In addition to the requirements of Sections IV., B.1., B.2., B.3. and B.4., the Permittee shall record water levels, mean sea level elevation measuring point, depth to water, and the results of field tests for pH and specific conductance at the time of sampling for each well.
6. The Permittee is approved for intra-well statistical analysis at this time.

C. Sampling and Analysis Procedures. The Permittee shall use the following techniques and procedures when obtaining and analyzing samples from the groundwater monitoring wells described in Section IV.A. to provide a reliable indication of the quality of the groundwater.

1. Samples shall be collected, preserved, and shipped (when shipped off-site for analysis) in accordance with the procedures specified in the Application. Monitoring wells shall be bailed or pumped in accordance with ADEM guidance. Slow recharge wells shall be bailed until dry. Wells shall be allowed to recharge prior to sampling.
2. Samples shall be analyzed according to the procedures specified of the Application, Standard Methods for the Examination of Water and Wastewater (American Public Health Association, latest edition), Methods for Chemical Analysis of Water and Wastes (EPA-600/4-79-020), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (EPA Publication SW-846, latest edition), or other appropriate methods approved by this Department. All field tests must be conducted using approved EPA test kits and procedures.
3. Samples shall be tracked and controlled using the chain-of-custody and QA/QC procedures specified of the Application.

D. Recordkeeping and Reporting Requirements.

1. Recording of Results. For each sample and/or measurement taken pursuant to the requirements of this permit, the Permittee shall record the information required by Section I.E.9.c.
2. Recordkeeping. Records and results of all groundwater monitoring, sampling, and analysis activities conducted pursuant to the requirements of this permit shall be included in the operating record required by Section I.I.1.

E. Permit Modification. If the Permittee or ADEM determines that the groundwater monitoring system no longer satisfies the requirements of ADEM Admin. Code 335-13-4-.14 or Section IV.A. of this permit, the Permittee must, within 90 days, submit an application for a permit modification to make necessary and/or appropriate changes to the system.

TABLE 1
GROUNDWATER MONITORING WELLS.

Monitoring Well Number	Top of Casing (feet msl)	Part Monitoring
	Upgradient Wells	
SMP-5	978.15	Tract 1

BMP-2	942.74	Tract 1
SMP-7	TBI	Tract 2
BMP-7	TBI	Tract 2
Downgradient Wells		
SMP-1	869.11	Tract 1
SMP-2A	875.09	Tract 1
SMP-3	823.35	Tract 1
SMP-4B	858.65	Tract 1
BMP-1A	870.32	Tract 1
BMP-3A	827.19	Tract 1
BMP-4	826.46	Tract 1
SMP-8	TBI	Tract 2
SMP-10	TBI	Tract 2
SMP-11	TBI	Tract 2
SMP-12	TBI	Tract 2
SMP-13	TBI	Tract 2
SMP-14	TBI	Tract 2
SMP-15	TBI	Tract 2
SMP-16	TBI	Tract 2
SMP-17	TBI	Tract 2
SMP-18	TBI	Tract 2
BMP-8	TBI	Tract 2
BMP-9	TBI	Tract 2
BMP-10	TBI	Tract 2
BMP-11	TBI	Tract 2

*TBI- Wells to be installed prior to disposal in Tract 2 as described in the Environmental Monitoring Plan

SECTION V. GAS MONITORING REQUIREMENTS.

The Permittee must install and maintain an explosive gas monitoring system in accordance with ADEM Admin. Code 335-13 except as provided by a variance in Section X.

SECTION VI. MUNICIPAL SOLID WASTE LANDFILL AIR EMISSIONS.

This landfill may be subject to ADEM Admin. Code 335-3 and the Federal Clean Air Act. Contact the ADEM Air Division for applicable requirements and permits.

SECTION VII. LEACHATE AND SURFACE WATER MANAGEMENT REQUIREMENTS.

The Permittee must collect and dispose of the leachate that is generated at the facility. The Permittee shall install a leachate collection system designed to maintain less than 12 inches (30 cm) depth of leachate over the liner. Prior to initial disposal, the permittee shall provide the Department with a letter from the receiving publicly or privately owned treatment works, approving the acceptance of the leachate. Discharges to publicly or privately owned treatment works may be subject to the requirements of the ADEM Water Division's State Indirect Discharge (SID) Program. The permittee shall construct and maintain run-on and run-off control structures. Surface water discharges from drainage control structures shall be permitted through the ADEM Water Division's National Pollutant Discharge Elimination System (NPDES) Program.

SECTION VIII. CLOSURE AND POST-CLOSURE REQUIREMENTS.

The Permittee shall close the landfill and perform post-closure care of the landfill in accordance with ADEM Admin. Code 335-13.

- A. Final Cover. The landfill shall be closed in accordance with the approved application and ADEM Admin. Code 335-13.
- B. Vegetative Cover. The Permittee shall establish a vegetative or other appropriate cover within 90 days after completion of final grading requirements in the Application. Preparation of a vegetative cover shall include, but not be limited to, the placement of seed, fertilizer, mulch, and water.
- C. Notice of Intent. The Permittee shall place in the operating record and notify ADEM of their intent to close the landfill prior to beginning closure.
- D. Completion of Closure Activities. The Permittee must complete closure activities of each landfill unit in accordance with the Closure Plan within 180 days of the last known receipt of waste.
- E. Certification of Closure. Following closure of each unit, the Permittee must submit to ADEM a certification, signed by an independent registered professional engineer, verifying the closure has been completed according to the Closure Plan.
- F. Post-Closure Care Period. Post-closure care activities shall be conducted after closure of each unit throughout the life of this permit and continuing for a period of a minimum of thirty (30) years following closure of the facility. ADEM may shorten or extend the post-closure care period applicable to the solid waste disposal facility.
- G. Post-Closure Maintenance. The Permittee shall provide post closure maintenance of the facility to include regularly scheduled inspections. This shall include maintenance of the cover, vegetation, monitoring devices and pollution control equipment and correction of other deficiencies that may be observed by ADEM. Monitoring requirements shall continue throughout the post closure period as determined by ADEM unless all waste is removed and no unpermitted discharge to waters of the State have occurred.
- H. Post-Closure Use of Property. The Permittee shall ensure that post closure use of the property never be allowed to disturb the integrity of the final cover, liner, or other components of the containment system. This shall preclude the growing of deep-rooted vegetation on the closed area.
- I. Certification of Post-Closure. Following post-closure of each unit, the Permittee must submit to ADEM a certification, signed by an independent registered professional engineer, verifying the post-closure has been completed according to the Post-Closure Plan.
- J. Recording Instrument. The Permittee must provide documentation of compliance with the requirements of the Uniform Environmental Covenants Program in ADEM Admin. Code 335-5 and shall execute the following:
 - 1. Record a notation onto the land deed within 90 days from the certification of closure. This notation shall state that the land has been used as a solid waste disposal facility, the name of the Permittee, type of disposal activity, location of the disposal facility, and beginning and closure dates of the disposal activity.
 - 2. File the covenant at the courthouse where the land deed is held within thirty (30) days of receipt of the covenant signed by ADEM's Land Division Chief.
 - 3. The Permittee shall submit a certified copy of the recording instrument to ADEM within 120 days after permit expiration, revocation, or as directed by ADEM as described in the application.
- K. Removal of Waste. If the Permittee or other person(s) wishes to remove waste, waste residues, the liner, or any contaminated soils, the owner must request and receive prior approval from ADEM.

SECTION IX. FINANCIAL ASSURANCE

- A. The Permittee shall maintain detailed written cost estimates, in current dollars, at the landfill office and on file with ADEM in accordance with ADEM Admin. Code 335-13-4-.28.

- B. All cost estimates must be updated annually as required by ADEM Admin Code 335-13-4-28.
- C. The Permittee must place a copy of the financial assurance mechanism along with other items required by ADEM Admin. Code 335-13-4-28. into the landfill operating record and submitted to ADEM before the initial receipt of waste in the case of closure, post-closure care, or no later than 120 days after corrective action remedy has been selected.
- D. The financial assurance mechanisms must ensure that funds will be available in a timely fashion when needed.
- E. The financial assurance mechanisms must be legally valid, binding, and enforceable under state and federal law.
- F. The Permittee shall demonstrate continuous compliance with ADEM Admin. Code 335-13-4-28. by providing documentation of financial assurance in at least the amount that equals or exceeds the cost estimate. Changes in the financial assurance mechanism must be approved by the Department.
- G. The Permittee shall increase the closure, post-closure or corrective action cost estimates and the amount of financial assurance if changes in the closure, post-closure or correction action plans or landfill conditions increase the maximum cost.
- H. The Permittee may reduce the amount of financial assurance by submitting justification and a revised estimate to ADEM for approval.

SECTION X. VARIANCES AND SPECIAL CONDITIONS.

- 1. The Permittee is granted a variance from ADEM Admin. Code 335-13-4-.16(2)4. requiring that explosive gas monitoring points shall be located every 300 feet along the landfill permit boundaries. In areas where a dwelling is within 1000 feet of the boundaries, the monitoring points shall be 100 feet apart or as otherwise directed by the Department. The Permittee shall monitor for explosive gases near the cells that waste has been disposed of in accordance with the approved Environmental Monitoring Plan, dated April 23, 2024.
- 2. The Permittee is granted a variance from ADEM Admin. Code 335-13-.22(1)(c) requiring that a completed daily cell shall not exceed eight feet in vertical thickness measured perpendicular to the slope of the preceding cell. Waste may be placed in daily lifts or cells not to exceed 15 feet. (See Section III. I.)
- 3. The Permittee has been granted a variance from ADEM Admin. Code 335-13-4-.22(1)(b) requiring all waste to be confined to as small an area as possible within a single working face. The Permittee shall be allowed to operate two working faces temporarily during the initial placement of waste in each newly constructed cell or while the landfill is receiving friable asbestos. The second working face will be temporary and will only be used until each newly constructed cell is covered by a sufficiently thick initial lift of municipal solid waste or while the landfill is receiving friable asbestos. Each working face must be combined to an area as small as possible. (See Section III.J.)
- 4. The Permittee may utilize automobile shredder fluff, contaminated soils, and tarps as an alternate daily cover. The alternate daily covers may only be used to cover interior slopes of the cells. All exterior slopes shall be covered with soil in accordance with the approved plans and permit. If an alternate daily cover is utilized, the Permittee shall be required to cover the active cell with six inches of earthen cover at the conclusion of each week's activities. (See Section III.H.)
- 5. The Permittee may utilize a 50% on-site soil by volume with the remaining volume of the mixture being tire chips as an alternate daily cover. The Permittee shall be required to cover the active cell with six inches of earthen cover at the conclusion of each week's activities. The handling and storage of tires and tire chips shall be in accordance with ADEM Admin. Code 335-4. (See Section III.H.)

Any variance granted by ADEM may be terminated by ADEM whenever ADEM finds, after notice and opportunity for hearing, that the petitioner is in violation of any requirement, condition, schedule, limitation or any other provision of the variance, or that operation under the variance does not meet the minimum requirements established by state and federal laws and regulations or is unreasonably threatening the public health.

APPENDIX D

Arab C/D Landfill Solid Waste Disposal Facility Permit

LANCE R. LEFLEUR
DIRECTOR



KAY IVEY
GOVERNOR

Alabama Department of Environmental Management
adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ■ FAX (334) 271-7950

September 3, 2020

Mr. Dameon Pittenger
City of Arab
740 North Main Street
Arab, Alabama 35016

RE: Permit Renewal
Arab C/D Landfill
Permit No. 48-03

Dear Mr. Pittenger:

Enclosed is the Solid Waste Facility Permit for the Arab C/D Landfill (Permit No. 48-03). The effective date of the permit is September 3, 2020 and the permit will expire on September 2, 2030.

If you should have any questions, please contact Mr. Jonathan Crosby of the Solid Waste Engineering Section at (334) 270-5644.

Sincerely,

S. Scott Story, Chief
Solid Waste Branch
Land Division

SSS/jc

Birmingham Branch
110 Vulcan Road
Birmingham, AL 35209-4702
(205) 942-6168
(205) 941-1603 (FAX)

Decatur Branch
2715 Sandlin Road, S.W.
Decatur, AL 35603-1333
(256) 353-1713
(256) 340-9359 (FAX)



Mobile Branch
2204 Perimeter Road
Mobile, AL 36615-1131
(251) 450-3400
(251) 479-2593 (FAX)

Mobile-Coastal
3664 Dauphin Street, Suite B
Mobile, AL 36608
(251) 304-1176
(251) 304-1189 (FAX)

FINAL DETERMINATION

Permit Renewal

City of Arab
740 North Main Street
Arab, AL 35016

Arab C/D Landfill
Permit Number 48-03

September 3, 2020

The City of Arab submitted to the Alabama Department of Environmental Management (ADEM) an application to continue to operate a construction and demolition landfill to be known as the Arab C/D Landfill (Permit Number 48-03). The waste stream for the Arab C/D Landfill would remain nonputrescible and nonhazardous construction and demolition waste, rubbish as defined by ADEM Rule 335-13-1-.03, and polyurethane foam generated by HFI. The service area for the Arab C/D Landfill would remain the City of Arab and the Alabama Counties of Marshall, Blount, Cullman, Madison and Morgan. The maximum average daily volume of waste disposed at the Arab C/D Landfill would remain 500 cubic yards per day. The application requested that all previous conditions of the current permit for the Arab C/D Landfill be granted in the renewed permit.

The Arab C/D Landfill is described as being located in the Section 20, Township 8 South, Range 1 East in Marshall County, Alabama. The Arab C/D Landfill consists of 88 acres with three disposal areas (4 acres in the North Central portion, 12 acres in the central portion and 20 acres in the Southeast portion) designated for C/D waste.

A public comment period was announced by ADEM on July 22, 2020 and ended on August 26, 2020. The permit application and draft permit was available for inspection at the Alabama Department of Environmental Management. The Department received no comments during the comment period.

The Solid Waste Engineering Section has determined that the permit application complies with the requirements of ADEM's Administrative Code Division 13 regulations for a construction and demolition landfill.

Technical Contact:

Mr. Jonathan Crosby
Solid Waste Engineering Section
Land Division



SOLID WASTE DISPOSAL FACILITY PERMIT

PERMITTEE: City of Arab

FACILITY NAME: Arab C/D Landfill

FACILITY LOCATION: Section 20, Township 8 South, Range 1 East in Marshall County, Alabama. The total permitted area for is approximately 88 acres with three disposal areas (4 acres in the North Central portion, 12 acres in the central portion and 20 acres in the Southeast portion) designated for C/D waste.

PERMIT NUMBER: 48-03

PERMIT TYPE: Construction/Demolition Landfill

WASTE APPROVED FOR DISPOSAL: Nonputrescible and nonhazardous construction and demolition waste, rubbish as defined by Rule 335-13-1-.03, and polyurethane foam generated by HFI.

APPROVED WASTE VOLUME: Average Daily Volume of 500 cubic yards per day

APPROVED SERVICE AREA: The City of Arab and the Alabama Counties of Marshall, Blount, Cullman, Madison and Morgan.

In accordance with and subject to the provisions of the Solid Wastes & Recyclable Materials Management Act, as amended, Code of Alabama 1975, S 22-27-1 to 22-27-27 ("SWRMMA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, S 22-22A-1 to 22-22A-15, and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to dispose of the above-described solid wastes at the above-described facility location.

ISSUANCE DATE: September 3, 2020

EFFECTIVE DATE: September 3, 2020

EXPIRATION DATE: September 2, 2030

Alabama Department of Environmental Management

**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
SOLID WASTE PERMIT**

Permittee: City of Arab
740 North Main Street
Arab, Alabama 35016

Landfill Name: Arab C/D Landfill

Landfill Location: Section 20, Township 8 South, Range 1 East in Marshall County, Alabama

Permit Number: 48-03

Landfill Type: Construction and Demolition Landfill

Pursuant to the Solid Wastes & Recyclable Materials Management Act, Code of Alabama 1975, Section 22-27-1, *et seq.*, as amended, and attendant regulations promulgated thereunder by the Alabama Department of Environmental Management (ADEM), this permit is issued to the City of Arab. (hereinafter called the Permittee), to operate a solid waste disposal facility, known as the Arab C/D Landfill.

The Permittee must comply with all terms and conditions of this permit. This permit consists of the conditions set forth herein (including those in any attachments), and the applicable regulations contained in Chapters 335-13-1 through 335-13-16 of the ADEM Administrative Code (hereinafter referred to as the "ADEM Admin. Code"). Rules cited are set forth in this document for the purpose of Permittee reference. Any Rule that is cited incorrectly in this document does not constitute grounds for noncompliance on the part of the Permittee. Applicable ADEM Administrative Codes are those that are in effect on the date of issuance of this permit or any revisions approved after permit issuance.

This permit is based on the information submitted to the Department on February 28, 2020, and as amended, known as the Permit Application (hereby incorporated by reference and hereinafter referred to as the Application). Any inaccuracies found in this information could lead to the termination or modification of this permit and potential enforcement action. The Permittee must inform ADEM of any deviation from or changes in the information in the Application that would affect the Permittee's ability to comply with the applicable ADEM Admin. Code or permit conditions.

This permit is effective as of **September 3, 2020** and shall remain in effect until **September 2, 2030** unless suspended or revoked.



Alabama Department of Environmental Management

9/3/2020

Date Signed

SECTION I. STANDARD CONDITIONS

A. Effect of Permit

The Permittee is allowed to dispose of nonhazardous solid waste in accordance with the conditions of this permit and ADEM Administrative Code, Division 13. Issuance of this permit does not convey property rights of any sort or any exclusive privilege, nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of state or local laws or regulations. Except for actions brought under Code of Alabama 1975, Section 22-27-1, *et seq.*, as amended, compliance with the conditions of this permit shall be deemed to be compliance with applicable requirements in effect as of the date of issuance of this permit and any future revisions.

B. Permit Actions

This permit may be suspended, revoked or modified for cause. The filing of a request for a permit modification or the notification of planned changes or anticipated noncompliance on the part of the Permittee, and the suspension or revocation does not stay the applicability or enforceability of any permit condition.

C. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

D. Definitions

For the purpose of this permit, terms used herein shall have the same meaning as those in ADEM Administrative Code, Division 13, unless this permit specifically provides otherwise; where terms are not otherwise defined, the meaning associated with such terms shall be as defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.

1. "EPA" for purposes of this permit means the United States Environmental Protection Agency.
2. "Permit Application" for the purposes of this permit, means all permit application forms, design plans, operational plans, closure plans, technical data, reports, specifications, plats, geological and hydrological reports, and other materials which are submitted to the Department in pursuit of a solid waste disposal permit.

E. Duties and Requirements

1. Duty to Comply

The Permittee must comply with all conditions of this permit except to the extent and for the duration such noncompliance is authorized by a variance granted by the Department. Any permit noncompliance, other than noncompliance authorized by a variance, constitutes a violation of Code of Alabama 1975, Section 22-27-1 *et seq.*, as amended, and is grounds for enforcement action, permit suspension, revocation, modification, and/or denial of a permit renewal application.

2. Duty to Reapply

If the Permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the Permittee must apply for and obtain a new permit. The renewal application must be submitted to the Department at least 180 days before this permit expires.

3. Permit Expiration

This permit and all conditions therein will remain in effect beyond the permit's expiration date if the Permittee has submitted a timely, complete application as required by Section I, Paragraph E, Subparagraph 2, and, through no fault of the Permittee, the Department has not made a final decision regarding the renewal application.

4. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the conditions of this permit.

5. Duty to Mitigate

In the event of noncompliance with this permit, the Permittee shall take all reasonable steps to minimize releases to the environment, and shall carry out such measures as are reasonable to prevent significant adverse impacts on human health or the environment.

6. Proper Operation and Maintenance

The Permittee shall at all times properly operate and maintain all facilities and systems of control (and related appurtenances) that are installed or used by the Permittee to achieve compliance with the conditions of this permit.

7. Duty to Provide Information

If requested, the Permittee shall furnish to ADEM, within a reasonable time, any information that ADEM may reasonably need to determine whether cause exists for denying, suspending, revoking, or modifying this permit, or to determine compliance with this permit. If requested, the Permittee shall also furnish the Department with copies of records kept as a requirement of this permit.

8. Inspection and Entry

Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the employees of the Department or their authorized representative to:

- a. Enter at reasonable times the Permittee's premises where the regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit.
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
- c. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.
- d. Sample or monitor, at reasonable times, any substances or parameters at any location for the purposes of assuring permit compliance or as otherwise authorized by Code of Alabama 1975, Section 22-27-1 *et seq.*

9. Monitoring, Corrective Actions, and Records

- a. Samples and measurements taken for the purpose of monitoring or corrective action shall be representative of the monitored activity. The methods used to obtain representative samples to be analyzed must be the appropriate method from Chapter 335-13-4 or the methods as specified in the Application and incorporated by reference. Laboratory methods must be those specified in Standard Methods for the Examination of Water and Wastewater (American Public Health

Association, latest edition), Methods for Chemical Analysis of Water and Wastes (EPA-600/4-79-020), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (EPA Publication SW-846, latest edition), other appropriate EPA methods, or as specified in the Application. All field tests must be conducted using approved EPA test kits and procedures.

- b. The Permittee shall retain records, at the location specified in Section I, Paragraph I, of all monitoring, or corrective action information, including all calibration and maintenance records, copies of all reports and records required by this permit, and records of all data used to complete the application for this permit for a period of at least three years from the date of the sample, measurement, report or record or for periods elsewhere specified in this permit. These periods may be extended by the request of the Department at any time and are automatically extended during the course of any unresolved enforcement action regarding this facility.
- c. Records of monitoring and corrective action information shall include:
 - i. The exact place, date, and time of sampling or measurement.
 - ii. The individual(s) and company who performed the sampling or measurements.
 - iii. The date(s) analyses were performed.
 - iv. The individual(s) and company who performed the analyses.
 - v. The analytical techniques or methods used.
 - vi. The results of such analyses.
- d. The Permittee shall submit all monitoring and corrective action results at the interval specified elsewhere in this permit.

10. Reporting Planned Changes

The Permittee shall notify the Department, in the form of a request for permit modification, at least 90 days prior to any change in the permitted service area, increase in the waste received, or change in the design or operating procedure as described in this permit, including any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

11. Transfer of Permit

This permit may be transferred to a new owner or operator. All requests for transfer of permits shall be in writing and shall be submitted on forms provided by the Department. Before transferring ownership or operation of the facility during its operating life, the Permittee shall notify the new owner or operator in writing of the requirements of this permit.

12. Certification of Construction

The Permittee may not commence disposal of waste in any new cell or phase until the Permittee has submitted to the Department, by certified mail or hand delivery, a letter signed by both the Permittee and a professional engineer stating that the facility has been constructed in compliance with the permit.

The Department must inspect the constructed cells or phases before the owner or operator can commence waste disposal unless the Permittee is notified that the Department will waive the inspection.

13. Compliance Schedules

Reports of compliance or noncompliance with or any progress reports on interim and final requirements contained in any compliance schedule required and approved by the Department shall be submitted no later than 14 days following each schedule date.

14. Other Noncompliance

The Permittee shall report all instances of noncompliance with the permit at the time monitoring reports are submitted.

15. Other Information

If the Permittee becomes aware that information required by the Application was not submitted or was incorrect in the Application or in any report to the Department, the Permittee shall promptly submit such facts or information. In addition, upon request, the Permittee shall furnish to the Department, within a reasonable time, information related to compliance with the permit.

F. Design and Operation of Facility

The Permittee shall maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or nonsudden release of contaminants (including leachate and explosive gases) to air, soil, groundwater, or surface water, which could threaten human health or the environment.

G. Inspection Requirements

1. The Permittee shall comply with all requirements of ADEM Administrative Code, Division 13.
2. The Permittee shall conduct random inspections of incoming loads.
3. Records of all inspections shall be included in the operating record.

H. Recordkeeping and Reporting

1. The Permittee shall maintain a written operating record at the location specified in Section I, Paragraph I. The operating record shall include:
 - a. Documentation of inspections and maintenance activities.
 - b. Daily Volume reports.
 - c. Personnel training documents and records.
 - d. Groundwater monitoring records if required.
 - e. Explosive gas monitoring records if required.
 - f. Copies of this Permit and the Application.
 - g. Copies of all variances granted by the Department, including copies of all approvals of special operating conditions.

2. Quarterly Volume Report

Beginning with the effective date of this permit, the Permittee shall submit, within thirty (30) days after the end of each calendar quarter, a report summarizing the daily waste receipts for the previous (just ended) quarter. Copies of the quarterly reports shall be maintained in the operating record.

3. Monitoring and Corrective Action Reports

The Permittee shall submit reports on all monitoring and corrective activities conducted pursuant to the requirements of this permit, including, but not limited to, groundwater, surface water, explosive gas and leachate monitoring. If groundwater monitoring is required in Section IV, groundwater monitoring shall be conducted in March and September of each year, or as directed by the Department, and the reports shall be submitted at least semi-annually, or as directed by the Department. The reports should contain all monitoring results and conclusions from samples and measurements conducted during the sampling period. Explosive gas monitoring must be conducted on an annual basis, and the reports should be submitted to the department and placed in the operating record within 30 days of the monitoring event. Copies of the groundwater and explosive gas monitoring reports shall be maintained in the operating record.

4. Availability, Retention, and Disposition of Records

- a. All records, including plans, required under this permit or Division 13 must be furnished upon request, and made available at reasonable times for inspection by any officer, employee, or representative of the Department.
- b. All records, including plans, required under this permit or Division 13 shall be retained by the Permittee for a period of at least three years. The retention period for all records is extended automatically during the course of any unresolved enforcement action regarding the facility, or as requested by the Department.
- c. A copy of records of waste disposal locations and quantities must be submitted to the Department and local land authority upon closure of the facility.

I. Documents to be Maintained by the Permittee

The Permittee shall maintain, at the Arab City Hall, the following documents and amendments, revisions and modifications to these documents until an engineer certifies closure.

1. Operating record.
2. Closure Plan.

J. Mailing Location

All reports, notifications, or other submissions which are required by this permit should be sent via signed mail (i.e. certified mail, express mail delivery service, etc.) or hand delivered to:

Mailing Address.
Chief, Solid Waste Branch, Land Division
Alabama Department of Environmental Management
P.O. Box 301463
Montgomery, AL 36130-1463

Physical Address.
Chief, Solid Waste Branch, Land Division
Alabama Department of Environmental Management
1400 Coliseum Blvd.
Montgomery, Alabama 36110-2400

K. Signatory Requirement

All applications, reports or information required by this permit, or otherwise submitted to the Department, shall be signed and certified by the owner as follows:

1. If an individual, by the applicant.
2. If a city, county, or other municipality or governmental entity, by the ranking elected official, or by a duly authorized representative of that person.
3. If a corporation, organization, or other legal entity, by a principal executive officer, of at least the level of Vice President, or by a duly authorized representative of that person.

L. Confidential Information

The Permittee may claim information submitted as confidential if the information is protected under Code of Alabama 1975 §§ 22-39-18, as amended.

M. State Laws and Regulations

Nothing in this permit shall be construed to preclude the initiation of any legal action or to relieve the Permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation.

SECTION II. GENERAL OPERATING CONDITIONS

A. Operation of Facility

The Permittee shall operate and maintain the disposal facility consistent with the Application, this permit, and ADEM Administrative Code, Division 13.

B. Open Burning

The Permittee shall not allow open burning without prior written approval from the Department and other appropriate agencies. A burn request should be submitted in writing to the Department outlining why that burn request should be granted. This request should include, but not be limited to, specifically what areas will be utilized, types of waste to be burned, the projected starting and completion dates for the project, and the projected days and hours of operation. The approval, if granted, shall be included in the operating record.

C. Prevention of Unauthorized Disposal

The Permittee shall follow the approved procedures for detecting and preventing the disposal of free liquids, regulated hazardous waste, PCB's, and medical waste at the facility.

D. Unauthorized Discharge

The Permittee shall operate the disposal facility in such a manner that there will be no water pollution or unauthorized discharge to waters of the State. Any discharge from the disposal facility or practice thereof may require a National Pollutant Discharge Elimination System permit under the Alabama Water Pollution Control Act.

E. Industrial Waste Disposal

The Permittee shall not dispose of industrial process waste at this landfill. Only those wastes shown in Section III, Paragraph B are allowed for disposal in this landfill.

F. Boundary Markers

The Permittee shall ensure that the facility is identified with a sufficient number of permanent boundary markers that are at least visible from one marker to the next.

G. Certified Operator.

The Permittee shall be required to have an operator certified by the Department on-site during hours of operation, in accordance with the requirements of ADEM Admin. Code 335-13-12.

SECTION III. SPECIFIC REQUIREMENTS FOR C/D LANDFILLS

A. Waste Identification and Management

1. Subject to the terms of this permit, the Permittee may dispose of the nonhazardous solid wastes listed in Section III, Paragraph B. Disposal of any other wastes is prohibited, except waste granted a temporary or one time waiver by the Director.
2. The total permitted area for the Arab C/D Landfill is approximately 88 acres with three disposal areas (4 acres in the North Central portion, 12 acres in the central portion and 20 acres in the Southeast portion) designated for C/D waste.
3. The maximum average daily volume of waste disposed at the facility shall not exceed 500 cubic yards/day, except as provided under Rule 335-13-5-.06(2)(a)5. The average daily volume shall be computed as specified by Rule 335-13-5-.06(2)(a)5.(i).

B. Waste Streams

The Permittee may accept for disposal nonputrescible and nonhazardous construction and demolition waste, rubbish as defined by Rule 335-13-1-.03, and polyurethane foam generated by HFI.

C. Service Area

The Permittee is allowed to receive for disposal waste from the City of Arab and the Alabama Counties of Marshall, Blount, Cullman, Madison and Morgan.

D. Waste Placement, Compaction, and Cover

All waste shall be confined to an area as small as possible and placed onto an appropriate slope not to exceed 4 to 1 (25%) or as approved by the Department. All waste shall be spread in layers two feet or less in thickness and thoroughly compacted weekly with adequate landfill equipment prior to placing additional layers of waste or placing the weekly cover. A minimum of six inches of compacted earth or other alternative cover material approved by the Department shall be added at the conclusion of each week's operation unless a variance is granted in Section VIII.

E. Security

The Permittee shall provide artificial and/or natural barriers, which prevent entry of unauthorized vehicular traffic to the facility.

F. All Weather Access Roads

The Permittee shall provide an all-weather access road to the dumping face that is wide enough to allow passage of collection vehicles.

G. Adverse Weather Disposal

The Permittee shall provide for disposal activities in adverse weather conditions.

H. Personnel

The Permittee shall maintain adequate personnel to ensure continued and smooth operation of the facility.

I. Environmental Monitoring and Treatment Structures

The Permittee shall provide protection and proper maintenance of environmental monitoring and treatment structures.

J. Vector Control

The Permittee shall provide for vector control as required by ADEM Administrative Code, Division 13.

K. Bulk or Noncontainerized Liquid Waste

The Permittee shall not dispose of bulk or noncontainerized liquid waste, or containers capable of holding liquids, unless the conditions of Rule 335-13-4-.23(1)(j) are met.

L. Empty Containers

Empty containers larger than 10 gallons in size must be rendered unsuitable for holding liquids prior to disposal in the landfill unless otherwise approved by the Department.

M. Other Requirements

The Department may enhance or reduce any requirements for operating and maintaining the landfill as deemed necessary by the Land Division.

N. Other Permits

The Permittee shall operate the landfill according to this and any other applicable permits.

O. Scavenging and Salvaging Operations

The Permittee shall prevent scavenging and salvaging operations, except as part of a controlled recycling effort. Any recycling operation must be in accordance with plans submitted and approved by the Department.

P. Signs

If the landfill is available to the public or commercial haulers, the Permittee shall provide a sign outlining instructions for use of the site. The sign shall be posted and have the information required by Rule 335-13-4-.23(1)(f).

Q. Litter Control

The Permittee shall control litter.

R. Fire Control

The Permittee shall provide fire control measures.

SECTION IV. GROUNDWATER MONITORING REQUIREMENTS:

A. **Groundwater monitoring is required at this landfill due to the closed sanitary landfill located inside the facility boundary.** The Permittee shall install and/or maintain a groundwater monitoring system, as specified below and in accordance with ADEM Admin. Code Division 13 Regulations.

1. The permittee shall maintain the groundwater monitoring wells and piezometers identified in Table 1 at the locations specified in the Application, and any other groundwater monitoring wells which are added during the active life and the post closure care period.
2. The Permittee shall install and maintain additional groundwater monitoring wells as necessary to address changes in the rate and extent of a plume of contamination or as otherwise deemed necessary to maintain compliance with the 335-13.
3. Prior to installing additional groundwater monitoring wells, the Permittee shall submit a report to ADEM with a permit modification request specifying the design, location and installation of additional monitoring wells. This report shall be submitted within ninety (90) days prior to the installation which, at a minimum, shall include.
 - a. Well construction techniques including proposed casing depths, proposed total depth, and proposed screened interval of well(s);
 - b. Well development method(s);
 - c. A complete analysis of well construction materials;
 - d. A schedule of implementation for construction; and
 - e. Provisions for determining the lithologic characteristics, hydraulic conductivity and grain-size distribution for the applicable aquifer unit(s) at the location of the new well(s).

B. **Groundwater Monitoring Requirements.**

1. The Permittee shall determine the groundwater surface elevation at each monitoring well and piezometer identified in Table 1 each time the well or piezometer is sampled and at least semi-annually throughout the active life and post-closure care period.
2. The Permittee shall determine the groundwater flow rate and direction in the first zone of saturation at least annually or each time groundwater is sampled and submit as required by 335-13.
3. **The Permittee shall sample, and analyze all monitoring wells identified in Table 1 for the parameters listed in Appendix I of 335-13-4-.27(3), on a semi-annual basis throughout the active life of the facility and the post-closure care period in accordance with 335-13-4-.27(3). Sampling shall be conducted during March and September of each year, beginning with the effective date of this permit.**
4. In addition to the requirements of Sections IV., B.1., B.2., and B.3., the Permittee shall record water levels, mean sea level elevation measuring point, depth to water, and the results of field tests for pH and specific conductance at the time of sampling for each well.

- C. Sampling and Analysis Procedures. The Permittee shall use the following techniques and procedures when obtaining and analyzing samples from the groundwater monitoring wells described in Section IV.A. to provide a reliable indication of the quality of the groundwater.
1. Samples shall be collected, preserved, and shipped (when shipped off-site for analysis) in accordance with the procedures specified in the Application.
 2. Samples shall be analyzed according to the procedures specified of the Application, Standard Methods for the Examination of Water and Wastewater (American Public Health Association, latest edition), Methods for Chemical Analysis of Water and Wastes (EPA-600/4-79-020), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (EPA Publication SW-846, latest edition), or other appropriate methods approved by this Department. All field tests must be conducted using approved EPA test kits and procedures.
 2. Samples shall be tracked and controlled using the chain-of-custody and QA/QC procedures specified of the Application.
 3. **The Permittee has been approved for inter well statistics.**
- D. Recordkeeping and Reporting Requirements.
1. Recording of Results. For each sample and/or measurement taken pursuant to the requirements of this permit, the Permittee shall record the information required by Section I.E.9.c.
 2. Recordkeeping. Records and results of all groundwater monitoring, sampling, and analysis activities conducted pursuant to the requirements of this permit shall be included in the operating record required by Section I.I.1.
- E. Permit Modification. If the Permittee or ADEM determines that the groundwater monitoring system no longer satisfies the requirements of 335-13-4-.14 or Section IV.A. of this permit, the Permittee must, within 90 days, submit an application for a permit modification to make necessary and/or appropriate changes to the system.

**TABLE 1
GROUNDWATER MONITORING WELLS.**

Monitoring Well Number	Top of Casing (feet msl)	Part Monitoring
Upgradient Wells		
P-1	1029.90	Closed Landfill
Downgradient Wells		
P-4	977.88	Closed Landfill
P-6B	967.48	Closed Landfill
P-7	968.42	Closed Landfill
P-8	971-29	Closed Landfill
P-9	966.40	Closed Landfill

SECTION V. GAS MONITORING REQUIREMENTS

The permittee must install and maintain an explosive gas monitoring system in accordance with ADEM Administrative Code, Division 13.

SECTION VI. SURFACE WATER MANAGEMENT

The Permittee shall construct and maintain run-on and run-off control structures to control the discharge of pollutants to waters of the State during wet weather events. Any discharges from drainage control structures shall be permitted through a discharge permit issued by the ADEM Water Division.

SECTION VII. CLOSURE AND POST-CLOSURE REQUIREMENTS

The Permittee shall close the landfill and perform post-closure care of the landfill in accordance with Division 13.

A. Final Cover

The Permittee shall grade final soil cover such that surface water does not pond over the permitted area as specified in the Application. The final cover system shall comply with ADEM Administrative Code, Division 13.

B. Vegetative Cover

The Permittee shall establish a vegetative or other appropriate cover within 90 days after completion of final grading requirements in the Application. Preparation of a vegetative cover shall include, but not be limited to, the placement of seed, fertilizer, mulch and water.

C. Notice of Intent

The Permittee shall place in the operating record and notify the Department of their intent to close the landfill prior to beginning closure.

D. Completion of Closure Activities

The Permittee must complete closure activities of each landfill unit in accordance with the Closure Plan within 180 days of the last known receipt of waste.

E. Certification of Closure

Following closure of each unit, the Permittee must submit to the Department a certification, signed by an engineer, verifying the closure has been completed according to the Closure Plan.

F. Post-Closure Care Period

Post-closure care activities shall be conducted after closure of each unit throughout the life of this permit and continuing for a period of thirty (30) years following closure of the facility. The Department may shorten or extend the post-closure care period applicable to the solid waste disposal facility. The Permittee shall reapply in order to fulfill the post-closure care requirements of this permit.

G. Post-Closure Maintenance

The Permittee shall provide post closure maintenance of the facility to include regularly scheduled inspections. This shall include maintenance of the cover, vegetation, monitoring devices and pollution control equipment and correction of other deficiencies that may be observed by ADEM. Monitoring

requirements shall continue throughout the post closure period as determined by the Department unless all waste is removed and no unpermitted discharge to waters of the State has occurred.

H. Post-Closure Use of Property

The Permittee shall ensure that post closure use of the property never be allowed to disturb the integrity of the final cover, liner, or any other component of the containment system. This shall preclude the growing of deep-rooted vegetation on the closed area.

I. Certification of Post-Closure

Following post-closure of each unit, the Permittee must submit to the Department a certification, signed by an engineer, verifying the post-closure has been completed according to the Post-Closure Plan.

J. Notice in Deed to Property

The Permittee shall record a notation onto the land deed containing the property utilized for disposal within 90 days after permit expiration, revocation or when closure requirements are achieved as determined by the Department as stated in the Application. This notation shall state that the land has been used as a solid waste disposal facility, the name of the Permittee, type of disposal activity, location of the disposal facility and beginning and closure dates of the disposal activity.

K. Recording Instrument

The Permittee shall submit a certified copy of the recording instrument to the Department within 120 days after permit expiration, revocation, or as directed by the Department as described in the Application.

L. Removal of Waste

If the Permittee, or any other person(s), wishes to remove waste, waste residues, or any liner or contaminated soils, the owner must request and receive prior approval from the Department.

SECTION VIII. VARIANCES

There are no approved variances for the Arab C/D Landfill.

Any variance granted by the Department may be terminated by the Department whenever the Department finds, after notice and opportunity for hearing, that the petitioner is in violation of any requirement, condition, schedule, limitation or any other provision of the variance, or that operation under the variance does not meet the minimum requirements established by state and federal laws and regulations or is unreasonably threatening the public health.

APPENDIX E

Guntersville Landfill Solid Waste Disposal Facility Permit



Alabama Department of Environmental Management
adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ■ FAX (334) 271-7950

August 6, 2024

Mr. Charlie Minor
Public Works Supervisor
City of Guntersville
301 Avalon Way
Guntersville, Alabama 35976

RE: Guntersville Landfill
Permit No. 48-11

Dear Mr. Minor:

Enclosed is the Solid Waste Disposal Facility Permit for the Guntersville Landfill, (Permit No. 48-11). The permit is effective August 1, 2024, and will expire on July 31, 2034. If you should have any questions, please contact Mr. Jonathan Crosby at the Solid Waste Engineering Section at (334) 270-5644.

Sincerely,

Jason Wilson, Chief
Solid Waste Branch
Land Division

JW/jc



FINAL DETERMINATION

Permit Renewal

City of Guntersville
341 Gunter Avenue
Guntersville, Alabama 35976

Guntersville Landfill
Permit No. 48-11

August 1, 2024

The City of Guntersville submitted to the Alabama Department of Environmental Management (ADEM) an application to continue to operate a construction and demolition landfill known as the Guntersville Landfill (Permit No. 48-11). The waste stream for the Guntersville Landfill would remain nonputrescible and nonhazardous construction and demolition waste, tires, and rubbish as defined by ADEM Admin. Code r. 335-13-1-.03. The service area for the Guntersville Landfill would remain the City of Guntersville, Alabama. The maximum average daily volume of waste disposed at the Guntersville Landfill would remain 200 cubic yards per day. The permit renewal application requested that all conditions of the current permit for the Guntersville Landfill, including previously approved variance, be granted in the renewed permit.

The Guntersville Landfill is described as being located in the Southeast ¼ of the Northeast ¼ of Section 31, Township 8 South, Range 3 East in Marshall County, Alabama. The Guntersville Landfill consists of 41.08 acres with 13.63 acres approved for disposal.

A public comment period was announced by ADEM on June 18, 2024, and ended on July 23, 2024. The proposed permit and application were available for inspection at the Alabama Department of Environmental Management and on the Alabama Department of Environmental Management Website. The Department received no comments during the comment period.

The Land Division has determined that the permit renewal application complies with the requirements of ADEM's Administrative Code Division 13 regulations for a construction and demolition landfill.

Technical Contact:

Mr. Jonathan Crosby
Solid Waste Engineering Section
Land Division
334-270-5644



SOLID WASTE DISPOSAL FACILITY PERMIT

PERMITTEE: City of Guntersville

FACILITY NAME: Guntersville Landfill

FACILITY LOCATION: Southeast ¼ of the Northeast ¼ of Section 31, Township 8 South, Range 3 East in Marshall County, Alabama. The total permitted area is approximately 41.08 acres with 13.63 acres approved for disposal.

PERMIT NUMBER: 48-11

PERMIT TYPE: Construction/Demolition Landfill

WASTE APPROVED FOR DISPOSAL: Nonputrescible and nonhazardous construction and demolition waste, tires, and rubbish as defined by ADEM Admin. Code r. 335-13-1-.03.

APPROVED WASTE VOLUME: Average Daily Volume of 200 cubic yards per day

APPROVED SERVICE AREA: City of Guntersville, Alabama

In accordance with and subject to the provisions of the Solid Wastes & Recyclable Materials Management Act, as amended, Code of Alabama 1975, SS 22-27-1 to 22-27-27 ("SWRMMA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, SS 22-22A-1 to 22-22A-15, and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to dispose of the above-described solid wastes at the above-described facility location.

ISSUANCE DATE: August 1, 2024

EFFECTIVE DATE: August 1, 2024

EXPIRATION DATE: July 31, 2034

Alabama Department of Environmental Management

**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
SOLID WASTE PERMIT**

Permittee: City of Guntersville
341 Gunter Avenue
Guntersville, Alabama 35976

Landfill Name: Guntersville Landfill

Landfill Location: Southeast ¼ of the Northeast ¼ of Section 31, Township 8 South, Range 3 East
Marshall County

Permit Number: 48-11

Landfill Type: Construction and Demolition Landfill

Pursuant to the Solid Wastes & Recyclable Materials Management Act, Code of Alabama 1975, Section 22-27-1, *et seq.*, as amended, and attendant regulations promulgated thereunder by the Alabama Department of Environmental Management (ADEM), this permit is issued to the City of Guntersville (hereinafter called the Permittee), to operate a solid waste disposal facility, known as the Guntersville Landfill.

The Permittee must comply with all terms and conditions of this permit. This permit consists of the conditions set forth herein (including those in any attachments), and the applicable regulations contained in Ch. 335-13-1 through Ch. 335-13-16 of the ADEM Administrative Code (hereinafter referred to as the "ADEM Admin. Code 335-13"). Rules cited are set forth in this document for the purpose of Permittee reference. Any Rule that is cited incorrectly in this document does not constitute grounds for noncompliance on the part of the Permittee. Applicable ADEM Administrative Codes are those that are in effect on the date of issuance of this permit or any revisions approved after permit issuance.

This permit is based on the information submitted to the Department for permit renewal on December 28, 2022, and as amended, known as the Permit Application (hereby incorporated by reference and hereinafter referred to as the Application). Any inaccuracies found in this information could lead to the termination or modification of this permit and potential enforcement action. The Permittee must inform ADEM of any deviation from or changes in the information in the Application that would affect the Permittee's ability to comply with the applicable ADEM Admin. Code or permit conditions.

This permit is effective as of **August 1, 2024**, and shall remain in effect until **July 31, 2034**, unless suspended or revoked.



Alabama Department of Environmental Management

8/1/2024

Date Signed

SECTION I. STANDARD CONDITIONS

A. Effect of Permit

The Permittee is allowed to dispose of nonhazardous solid waste in accordance with the conditions of this permit and ADEM Admin. Code 335-13. Issuance of this permit does not convey property rights of any sort or any exclusive privilege, nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of state or local laws or regulations. Except for actions brought under Code of Alabama 1975, Section 22-27-1, *et seq.*, as amended, compliance with the conditions of this permit shall be deemed to be compliance with applicable requirements in effect as of the date of issuance of this permit and any future revisions.

B. Permit Actions

This permit may be suspended, revoked or modified for cause. The filing of a request for a permit modification or the notification of planned changes or anticipated noncompliance on the part of the Permittee, and the suspension or revocation does not stay the applicability or enforceability of any permit condition.

C. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

D. Definitions

For the purpose of this permit, terms used herein shall have the same meaning as those in ADEM Admin. Code 335-13, unless this permit specifically provides otherwise; where terms are not otherwise defined, the meaning associated with such terms shall be as defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.

1. "EPA" for purposes of this permit means the United States Environmental Protection Agency.
2. "Permit Application" for the purposes of this permit, means all permit application forms, design plans, operational plans, closure plans, technical data, reports, specifications, plats, geological and hydrological reports, and other materials which are submitted to the Department in pursuit of a solid waste disposal permit.

E. Duties and Requirements

1. Duty to Comply

The Permittee must comply with all conditions of this permit except to the extent and for the duration such noncompliance is authorized by a variance granted by the Department. Any permit noncompliance constitutes a violation of Code of Alabama 1975, Section 22-27-1 *et seq.*, as amended, and is grounds for enforcement action, permit suspension, revocation, modification, and/or denial of a permit renewal application.

2. Duty to Reapply

If the Permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the Permittee must apply for and obtain a new permit. The renewal application must be submitted to the Department at least 180 days before this permit expires.

3. Permit Expiration

This permit and all conditions therein will remain in effect beyond the permit's expiration date if the Permittee has submitted a timely, complete application as required by Section 1, Paragraph E, Subparagraph 2, and, through no fault of the Permittee, the Department has not made a final decision regarding the renewal application.

4. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the conditions of this permit.

5. Duty to Mitigate

In the event of noncompliance with this permit, the Permittee shall take all reasonable steps to minimize releases to the environment and shall carry out such measures as are reasonable to prevent significant adverse impacts on human health or the environment.

6. Proper Operation and Maintenance

The Permittee shall at all times properly operate and maintain all facilities and systems of control (and related appurtenances) that are installed or used by the Permittee to achieve compliance with the conditions of this permit.

7. Duty to Provide Information

If requested, the Permittee shall furnish to ADEM, within a reasonable time, any information that ADEM may reasonably need to determine whether cause exists for denying, suspending, revoking, or modifying this permit, or to determine compliance with this permit. If requested, the Permittee shall also furnish the Department with copies of records kept as a requirement of this permit.

8. Inspection and Entry

Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the employees of the Department or their authorized representative to:

- a. Enter at reasonable times the Permittee's premises where the regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit.
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
- c. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.
- d. Sample or monitor, at reasonable times, any substances or parameters at any location for the purposes of assuring permit compliance or as otherwise authorized by Code of Alabama 1975, Section 22-27-1 *et seq.*

9. Monitoring, Corrective Actions, and Records

- a. Samples and measurements taken for the purpose of monitoring or corrective action shall be representative of the monitored activity. The methods used to obtain representative samples to be analyzed must be the appropriate method from ADEM Admin. Code r. 335-13-4 or the methods as specified in the Application and incorporated by reference. Laboratory methods must be those specified in Standard Methods for the Examination of Water and Wastewater

(American Public Health Association, latest edition), Methods for Chemical Analysis of Water and Wastes (EPA-600/4-79-020), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (EPA Publication SW-846, latest edition), other appropriate EPA methods, or as specified in the Application. All field tests must be conducted using approved EPA test kits and procedures.

- b. The Permittee shall retain records, at the location specified in Section I, Paragraph I, of all monitoring, or corrective action information, including all calibration and maintenance records, copies of all reports and records required by this permit, and records of all data used to complete the application for this permit for a period of at least three years from the date of the sample, measurement, report or record or for periods elsewhere specified in this permit. These periods may be extended by the request of the Department at any time and are automatically extended during the course of any unresolved enforcement action regarding this facility.
- c. Records of monitoring and corrective action information shall include:
 - i. The exact place, date, and time of sampling or measurement.
 - ii. The individual(s) and company who performed the sampling or measurements.
 - iii. The date(s) analyses were performed.
 - iv. The individual(s) and company who performed the analyses.
 - v. The analytical techniques or methods used.
 - vi. The results of such analyses.
- d. The Permittee shall submit all monitoring and corrective action results at the interval specified elsewhere in this permit.

10. Reporting Planned Changes

The Permittee shall notify the Department, in the form of a request for permit modification, at least 120 days prior to any change in the permitted service area, increase in the waste received, or change in the design or operating procedure as described in this permit, including any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

11. Transfer of Permit

This permit may be transferred to a new owner or operator. All requests for transfer of permits shall be in writing and shall be submitted on forms provided by the Department. Before transferring ownership or operation of the facility during its operating life, the Permittee shall notify the new owner or operator in writing of the requirements of this permit.

12. Certification of Construction

Before the Permittee may commence disposal of waste in any new cell or phase:

- a. The Permittee must submit a letter to the Department signed by both the Permittee and a professional engineer stating that the facility has been constructed in compliance with the permit.
- b. The Department must inspect the constructed cells or phases unless the Permittee is notified that the Department will waive the inspection.

- c. The Permittee may not commence disposal activities in any new cells or phases until approval of the new cells or phases is granted by the Department.

13. Noncompliance

The Permittee shall report all instances of noncompliance with the permit at the time noncompliance is discovered.

14. Other Information

If the Permittee becomes aware that information required by the Application was not submitted or was incorrect in the Application or in any report to the Department, the Permittee shall promptly submit such facts or information. In addition, upon request, the Permittee shall furnish to the Department, within a reasonable time, information related to compliance with the permit.

F. Design and Operation of Facility

The Permittee shall maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or nonsudden release of contaminants (including leachate and explosive gases) to air, soil, groundwater, or surface water, which could threaten human health or the environment.

G. Inspection Requirements

1. The Permittee shall comply with all requirements of ADEM Admin. Code r. 335-13-.21(1)(b).
2. The Permittee shall conduct random inspections of incoming loads.
3. Records of all inspections shall be included in the operating record.

H. Recordkeeping and Reporting

1. The Permittee shall maintain a written operating record at the location specified in Section I, Paragraph I. The operating record shall include:

- a. Documentation of inspections and maintenance activities.
- b. Daily Volume reports.
- c. Personnel training documents and records.
- d. Groundwater monitoring records if required.
- e. Explosive gas monitoring records if required.
- f. Copies of this Permit and the Application.
- g. Copies of all variances granted by the Department, including copies of all approvals of special operating conditions.

2. Quarterly Volume Report

Beginning with the effective date of this permit, the Permittee shall submit, within thirty (30) days after the end of each calendar quarter, a report summarizing the daily waste receipts for the previous (just ended) quarter. Copies of the quarterly reports shall be maintained in the operating record.

3. Monitoring and Corrective Action Reports

The Permittee shall submit reports on all monitoring and corrective action activities conducted pursuant to the requirements of this permit, including, but not limited to, groundwater, surface water, explosive gas and leachate monitoring. If groundwater monitoring is required in Section IV, groundwater monitoring shall be conducted in March and September of each year, or as directed by the Department, and the reports shall be submitted at least semi-annually, or as directed by the Department. The reports should contain all monitoring results and conclusions from samples and measurements conducted during the sampling period. Explosive gas monitoring must be conducted on an annual basis, and the reports should be submitted to the department and placed in the operating record within 30 days of the monitoring event. Copies of the groundwater and explosive gas monitoring reports shall be maintained in the operating record.

4. Availability, Retention, and Disposition of Records

- a. All records, including plans, required under this permit or Division 13 must be furnished upon request, and made available at reasonable times for inspection by any officer, employee, or representative of the Department.
- b. All records, including plans, required under this permit or Division 13 shall be retained by the Permittee for a period of at least three years. The retention period for all records is extended automatically during the course of any unresolved enforcement action regarding the facility, or as requested by the Department.
- c. A copy of records of waste disposal locations and quantities must be submitted to the Department and local land authority upon closure of the facility.

I. Documents to be Maintained by the Permittee

The Permittee shall maintain, at the Guntersville City Hall, the following documents and amendments, revisions and modifications to these documents until an engineer certifies closure.

1. Operating record.
2. Closure Plan.

J. Mailing Location

All reports, notifications, or other submissions which are required by this permit should be sent via signed mail (i.e. certified mail, express mail delivery service, etc.) or hand delivered to:

Mailing Address.
Chief, Solid Waste Branch
Alabama Department of Environmental Management
P.O. Box 301463
Montgomery, AL 36130-1463

Physical Address.
Chief, Solid Waste Branch
Alabama Department of Environmental Management
1400 Coliseum Blvd.
Montgomery, Alabama 36110-2400

K. Signatory Requirement

All applications, reports or information required by this permit, or otherwise submitted to the Department, shall be signed and certified by the owner as follows:

1. If an individual, by the applicant.
2. If a city, county, or other municipality or governmental entity, by the ranking elected official, or by a duly authorized representative of that person.
3. If a corporation, organization, or other legal entity, by a principal executive officer, of at least the level of Vice President, or by a duly authorized representative of that person.

L. Confidential Information

The Permittee may claim information submitted as confidential if the information is protected under Code of Alabama 1975 §§ 22-39-18, as amended.

M. State Laws and Regulations

Nothing in this permit shall be construed to preclude the initiation of any legal action or to relieve the Permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation.

SECTION II. GENERAL OPERATING CONDITIONS

A. Operation of Facility

The Permittee shall operate and maintain the disposal facility consistent with the Permit Application, this permit, and ADEM Admin. Code 335-13.

B. Open Burning

The Permittee shall not allow open burning without prior written approval from the Department and other appropriate agencies. A burn request should be submitted in writing to the Department outlining why that burn request should be granted. This request should include, but not be limited to, specifically what areas will be utilized, types of waste to be burned, the projected starting and completion dates for the project, and the projected days and hours of operation. The approval, if granted, shall be included in the operating record.

C. Prevention of Unauthorized Disposal

The Permittee shall follow the approved procedures, as provided in the Application, for detecting and preventing the disposal of free liquids, regulated hazardous waste, PCB's, regulated medical waste, and other unauthorized waste streams at the facility.

D. Unauthorized Discharge

The Permittee shall operate the disposal facility in such a manner that there will be no water pollution or unauthorized discharge to waters of the State. Any discharge from the disposal facility or practice thereof may require a National Pollutant Discharge Elimination System permit under the Alabama Water Pollution Control Act.

E. Industrial Waste Disposal

The Permittee shall not dispose of industrial process waste at this landfill. Only those wastes shown in Section III, Paragraph B are allowed for disposal in this landfill.

F. Boundary Markers

The Permittee shall ensure that the facility is identified with a sufficient number of permanent boundary markers that are at least visible from one marker to the next.

G. Certified Operator

The Permittee shall be required to have an operator certified by the Department on-site during hours of operation, in accordance with the requirements of ADEM Admin. Code r. 335-13-12.

SECTION III. SPECIFIC REQUIREMENTS FOR C/D LANDFILLS

A. Waste Identification and Management

1. Subject to the terms of this permit, the Permittee may dispose of the nonhazardous solid wastes listed in Section III, Paragraph B. Disposal of any other wastes is prohibited, except waste granted a temporary or one time waiver by the Director.
2. The total permitted area for the Guntersville Landfill is approximately 41.08 acres with approximately 13.63 acres permitted for disposal operations.
3. The maximum average daily volume of waste disposed at the facility shall not exceed 200 cubic yards/day, except as provided under ADEM Admin. Code r. 335-13-5-.06(2)(b)2. The average daily volume shall be computed as specified by ADEM Admin. Code r. 335-13-4-.23(2)(f).

B. Waste Streams

The Permittee may accept for disposal nonputrescible and nonhazardous construction and demolition waste, tires, and rubbish as defined by Rule 335-13-1-.03.

C. Service Area

The Permittee is allowed to receive for disposal waste from the City of Guntersville, Alabama.

D. Cell or Phase Bottom Requirements

Currently, the Permittee is not required to construct a bottom liner. The bottom of the construction demolition cell or phase shall be a minimum of (5) feet above the highest measured groundwater level as determined by ADEM Admin. Code r. 335-4-.11(2)(a) and as shown in the Permit Application.

E. Waste Placement, Compaction, and Cover

All waste shall be confined to an area as small as possible within a single working face and placed onto an appropriate slope not to exceed 4 to 1 (25%) or as approved by the Department. All waste shall be spread in layers two feet or less in thickness and thoroughly compacted weekly with adequate landfill equipment prior to placing additional layers of waste or placing the weekly cover. A minimum of six inches of compacted earth or other alternative cover material approved by ADEM and listed in Section VIII shall be added at the conclusion of each week's operation. These are the minimum requirements for waste placement, compaction, and cover unless a variance is granted in Section VIII.

F. Security

The Permittee shall provide artificial and/or natural barriers, which prevent entry of unauthorized vehicular traffic to the facility.

G. All Weather Access Roads

The Permittee shall provide an all-weather access road to the dumping face that is wide enough to allow passage of collection vehicles.

H. Adverse Weather Disposal

The Permittee shall provide for disposal activities in adverse weather conditions.

I. Personnel

The Permittee shall maintain adequate personnel to ensure continued and smooth operation of the facility.

J. Environmental Monitoring and Treatment Structures

The Permittee shall provide protection and proper maintenance of environmental monitoring and treatment structures.

K. Vector Control

The Permittee shall provide for vector control as required by ADEM Admin. Code 335-13.

L. Bulk or Noncontainerized Liquid Waste

The Permittee shall not dispose of bulk or noncontainerized liquid waste, or containers capable of holding liquids, unless the conditions of ADEM Admin. Code r. 335-13-4-.23(1)(j) are met.

M. Empty Containers

Empty containers larger than 10 gallons in size must be rendered unsuitable for holding liquids prior to disposal in the landfill unless otherwise approved by the Department.

N. Other Requirements

The Department may enhance or reduce any requirements for operating and maintaining the landfill as deemed necessary by the Land Division.

O. Other Permits

The Permittee shall operate the landfill according to this and any other applicable permits.

P. Scavenging and Salvaging Operations

The Permittee shall prevent scavenging and salvaging operations, except as part of a controlled recycling effort. Any recycling operation must be in accordance with plans submitted and approved by the Department.

Q. Signs

If the landfill is available to the public or commercial haulers, the Permittee shall provide a sign outlining instructions for use of the site. The sign shall be posted and have the information required by ADEM Admin. Code r. 335-13-4-.23(1)(f).

R. Litter Control

The Permittee shall control litter.

S. Fire Control

The Permittee shall provide fire control measures.

SECTION IV. GROUNDWATER MONITORING REQUIREMENTS:

Groundwater monitoring is not required at this landfill provided that the waste stream is in accordance with Section III, Paragraph B. Should any waste be disposed of other than the waste streams indicated in Section III, Paragraph B, the Department may require that groundwater-monitoring wells be installed.

SECTION V. GAS MONITORING REQUIREMENTS

The permittee must install and maintain an explosive gas monitoring system in accordance with ADEM Admin. Code 335-13.

SECTION VI. SURFACE WATER MANAGEMENT

The Permittee shall construct and maintain run-on and run-off control structures to control the discharge of pollutants to waters of the State during wet weather events. Any discharges from drainage control structures shall be permitted through a discharge permit issued by the ADEM Water Division.

SECTION VII. CLOSURE AND POST-CLOSURE REQUIREMENTS

The Permittee shall close the landfill and perform post-closure care of the landfill in accordance with ADEM Admin. Code 335-13.

A. Final Cover

The Permittee shall grade final soil cover such that surface water does not pond over the permitted area as specified in the Application. The final cover system shall comply with ADEM Administrative Code, Division 13. The Permittee is granted a variance from ADEM Admin. Code r. 335-13-4-.20(2)(c)2. requiring that the maximum final grade of the final cover system shall not exceed 25 percent (4 to 1). The final cover system shall not exceed a final grade of 3 to 1. (See Section VIII.1.)

B. Vegetative Cover

The Permittee shall establish a vegetative or other appropriate cover within 90 days after completion of final grading requirements in the Application. Preparation of a vegetative cover shall include, but not be limited to, the placement of seed, fertilizer, mulch, and water.

C. Notice of Intent

The Permittee shall place in the operating record and notify the Department of their intent to close the landfill prior to beginning closure.

D. Completion of Closure Activities

The Permittee must complete closure activities of each landfill unit in accordance with the Closure Plan within 180 days of the last known receipt of waste.

E. Certification of Closure

Following closure of each unit, the Permittee must submit to the Department a certification, signed by a registered professional engineer, verifying the closure has been completed according to the Closure Plan.

F. Post-Closure Care Period

Post-closure care activities shall be conducted after closure of each unit throughout the life of this permit and continuing for a period of a minimum of thirty (30) years following closure of the facility. The Department may shorten or extend the post-closure care period applicable to the solid waste disposal facility.

G. Post-Closure Maintenance

The Permittee shall provide post closure maintenance of the facility to include regularly scheduled inspections. This shall include maintenance of the cover, vegetation, monitoring devices and pollution control equipment and correction of other deficiencies that may be observed by ADEM. Monitoring requirements shall continue throughout the post closure period as determined by the Department unless all waste is removed and no unpermitted discharge to waters of the State has occurred.

H. Post-Closure Use of Property

The Permittee shall ensure that post closure use of the property never be allowed to disturb the integrity of the final cover, liner, or any other component of the containment system. This shall preclude the growing of deep-rooted vegetation on the closed area.

I. Certification of Post-Closure

Following post-closure of each unit, the Permittee must submit to the Department a certification, signed by a registered engineer, verifying the post-closure has been completed according to the Post-Closure Plan.

J. Recording Instrument

The Permittee must provide documentation of compliance with the requirements of the Uniform Environmental Covenants Program in ADEM Admin. Code 335-5 and shall execute the following:

1. Record a notation onto the land deed within ninety (90) days from the certification of closure. This notation shall state that the land has been used as a solid waste disposal facility, the name of the Permittee, type of disposal activity, location of the disposal facility, and beginning and closure dates of the disposal activity.
2. File the covenant at the courthouse where the land deed is held within thirty (30) days of receipt of the covenant signed by ADEM's Land Division Chief.
3. The Permittee shall submit a certified copy of the recording instrument to ADEM within one hundred twenty (120) days after permit expiration, revocation, or as directed by ADEM as described in the Application.

K. Removal of Waste

If the Permittee, or any other person(s), wishes to remove waste, waste residues, or any liner or contaminated soils, the owner must request and receive prior approval from the Department.

SECTION VIII. VARIANCES

1. The Permittee is granted a variance from ADEM Admin. Code r. 335-13-4-.20(2)(c)2. requiring that the maximum final grade of the final cover system shall not exceed 25 percent (4 to 1). The final cover system shall not exceed a final grade of 3 to 1. (See Section VII.A.)

Any variance granted by the Department may be terminated by the Department whenever the Department finds, after notice and opportunity for hearing, that the petitioner is in violation of any requirement, condition, schedule, limitation or any other provision of the variance, or that operation under the variance does not meet the minimum requirements established by state and federal laws and regulations or is unreasonably threatening the public health.

APPENDIX F

Natural Disaster Debris Management Information



Alabama Department of Environmental Management
adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ■ FAX (334) 271-7950

September 13, 2022

MEMORANDUM

FROM: Michael J. Cruise, Chief
Removals and Response Unit
Environmental Services Branch
Land Division

SUBJECT: Disaster Debris Management and Disposal Guidance

To facilitate the removal of debris resulting from catastrophic natural events, the following guidance is provided and supersedes all previous guidance ADEM has provided to date. In addition, attached are the Department's "[Guidelines on Open Burning of Natural Disaster Debris](#)" and "[Emergency Disposal Following Natural Disasters](#)."

- The Federal Emergency Management Agency requires that all storm debris staging areas be pre-approved prior to placing storm debris at a staging location. County representatives should contact FEMA for approval well in advance of staging storm debris. In addition, ADEM is to be made aware of these locations as they are approved by FEMA.
- Vegetative debris, including but not limited to stumps, logs, limbs, brush, and leaves are not considered regulated solid wastes and do not require a permit by ADEM for staging or processing. However, vegetative debris disposal locations should be tracked by county officials and ADEM is to be notified of all changes or additions to these sites as they occur.
- Vegetative debris described herein that is contaminated with other special waste (as defined in ADEM Admin. Code r. 335-13-1-.03 (133)) is considered regulated solid waste and should be disposed of in a landfill permitted to accept that type of waste.
- Regulated solid waste debris (i.e., household, construction/ demolition waste, etc.) resulting from catastrophic natural events should be removed from all impacted areas and appropriately disposed of. The abandonment of regulated solid waste debris generated during a disaster event constitutes the establishment of an unauthorized dump (UAD) and is contrary to the requirements of the Alabama Solid Wastes & Recyclable Materials Management Act. Unauthorized dumps constitute a nuisance and a public health hazard, which can result in additional damage to adjacent property and structures. Accordingly, when establishing a disposal site for vegetative waste, regulated solid waste must be excluded. The landowner and/or person(s) responsible for the creation, contribution to, or operation of a UAD is responsible for its abatement, whether on public or private property.
- Do not place or stage vegetative debris in wetlands or standing water.
- Avoid placing vegetative debris in erosion features or low-lying areas. If this is not possible, ensure impediment to local water flow does not occur.
- If the burning of vegetative debris is to take place at an approved site, the burning must comply with the current ADEM "Guidelines for Open Burning of Natural Disaster Debris" (see above link for guidance on open burning).

Please contact Mike Cruise with any questions regarding the management and disposal of disaster debris at (334) 271-7938 or mcruise@adem.alabama.gov.



Emergency Disposal of Debris Resulting from Natural Disasters

July 2016

There is sufficient available landfill capacity within Alabama to properly manage the disposal of debris that may be generated during a natural disaster. However, in certain limited circumstances that may arise following a natural disaster, the Department acknowledges the unavailability of collection and transportation options may result in the possible need for emergency disposal sites. In these unusual circumstances, plots of land may be used for the emergency disposal of debris created during natural disasters that, due to the amount of waste generated, or the unavailability of waste collection services, would overwhelm the existing solid waste management infrastructure. Under these extraordinary conditions, the following guidelines shall apply:

- Application for use of an unpermitted site for emergency disposal of debris **must** be submitted to the ADEM Solid Waste Branch by a unit of local or state government.
- Sites to be used only for the staging of waste do not need the approval of ADEM prior to use.
- Sites to be used only for open burning do not need the approval of ADEM prior to their use, as long as the ADEM guidelines for open burning of natural disaster debris are followed.
- If regulated solid waste is burned (whether authorized or unauthorized), the operator of the site must conduct a hazardous waste determination on the ash resulting from open burning prior to closing the burn site and submit that to the ADEM Solid Waste Branch. ADEM will make a determination if the ash can remain at the site or must be removed from the site.
- If ash from open burning of regulated solid wastes is disposed of at the site, additional closure requirements, including but not limited to, an environmental covenant with ADEM in accordance with Division 5 regulations is required. Additional long-term monitoring may also be required if the ashes resulting from the burning of regulated waste are disposed on-site.
- Open burning shall not occur at a permitted landfill unless specifically approved by the ADEM Solid Waste Branch. Contact the Solid Waste Branch at 334-274-4201 for details.
- Sites to be used for disposal of regulated solid waste are to be approved by the ADEM-Solid Waste Branch prior to their use. The actual location of the site must be submitted to the ADEM Solid Waste Branch, along with any information that may be known about the site, such as proximity to residences, proximity to drinking water wells and wetlands, surface water bodies and streams. If the site is located within the 10-foot coastal zone, coordination with the ADEM-Field Operations Division must be done prior to approval.
- No hazardous wastes or putrescible wastes may be disposed of in these approved emergency disposal sites.
- Waste shall not be placed in groundwater if the site is excavated. Waste shall not be placed in wetlands.
- The disposal site must be closed in accordance with ADEM regulations for closure of a permitted construction/demolition landfill. For sites where regulated solid waste was disposed, the owner of the property will be required to conduct post-closure care of the site for a period of time, to be determined by ADEM based on the types of waste disposed of and the location of the site, up to 30 years after the site is closed. Additionally, an environmental covenant will be required following closure in accordance with ADEM-Division 5 regulations.
- The entity responsible for the disposal site must report to the ADEM-Solid Waste Branch once per month the activities that have occurred at the site for the previous month. ADEM will specify what is to be reported on a case-by-case basis.

The use of a site in an emergency situation does not imply that ADEM will approve the site as a permitted landfill. Following the cessation of emergency disposal activities, the site must comply with the permit application requirements of ADEM Administrative Code, Division 13 in order to operate as a permanent landfill.



Alabama Department of Environmental Management
adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ■ FAX (334) 271-7950

Guidelines for Open Burning of Natural Disaster Debris (2021)

1. These guidelines apply to the open burning of debris resulting from **catastrophic natural events**.^{*} Generally, open burning of this debris must be approved by an authorized city or county official in whose jurisdiction the proposed burn site is located.
2. Open burning, including selection of sites, should be coordinated and supervised by city or county officials (public health officers, city/county engineers, solid waste coordinators, and emergency management officials) within their jurisdictions.
3. **Only vegetation and untreated wood** may be burned. All other materials should be disposed of in a permitted landfill or a site approved by the ADEM-Solid Waste Branch.
4. Information from the county or city (if applicable), beginning burning date, estimated ending date, contact details and GIS location of the proposed burn site should be e-mailed to drb@adem.alabama.gov. A form for use is available at the aforementioned e-mail address or by telephoning (334) 271-7879.
5. Guidelines for open burning sites:
 - As distant from occupied dwellings and businesses as possible (recommended distance 1000 ft).
 - Burning is best conducted during clear weather and prevailing wind direction should be considered to minimize nuisance smoke.
 - Material to be burned should be as dry as possible and maintained to prevent long-term smoldering.
 - Burning may commence or vegetation added to a fire only between 8:00 am & 3:00 pm. Existing fires may burn beyond 3:00 pm.
 - The use of portable air curtain incinerators is encouraged and should be considered if one or more of the following situations exist:
 - a. Extended 24-hour burning is necessary.
 - b. Accelerated burning is desired.
 - c. Smoke is or may become a problem.
6. In situations where governmental officials or their contractors are unable to provide removal of vegetative debris for area residents, individual property owners who cannot meet **all conditions** listed in the footnote below may request to open burn this debris on their property if it is approved by their local governing body. Contact Don Barron at (334) 271-7879 prior to burning to discuss requirements.

^{*} *The Department does not require a notification if the burning of natural disaster debris is to be conducted in a manner consistent with the following conditions allowed by ADEM Admin. Code r. 335-3-3-.01(2):*

(1) The debris is burned on the property on which it originates. (2) The burn pile is not within 500 feet of an occupied dwelling located on other property. (3) The burning is controlled in a manner that does not cause a traffic hazard. (4) Only vegetation and untreated wood is burned. (5) Initial burning must not commence before 8 a.m. and no additional fuel added after 3 p.m. (6) Burning is conducted during favorable weather conditions and not conducted during a "Drought Emergency" declared by the Governor. (7) The fire shall be attended at all times. (8) The burning will not take place from May 1 - October 31 in any of the following counties: Baldwin, DeKalb, Etowah, Jefferson, Lawrence, Madison, Mobile, Montgomery, Morgan, Shelby, Russell or Talladega.



Proposed Site Information For Open Burning Of Natural Disaster Debris

Prepared by ADEM - April 2021 (Call 334-271-7879)

Date of Natural Disaster: _____

County: _____ City: _____

Site Coordinator: _____ Phone #: _____

Proposed start date: _____

Estimated end date: _____

Location (GIS): _____

Address (if applicable): _____

Portable air curtain incinerator to be used? Yes _____ No _____

Comments: _____

Printed Name of Responsible Official: _____

Title of Responsible Official: _____

Phone number of Responsible Official: _____

Signature of Responsible Official: _____