

PRELIMINARY DETERMINATION

MINOR PERMIT MODIFICATION

Jefferson County Commission
716 Richard Arrington Jr. Blvd N.
Birmingham, Alabama 35203

Jefferson County Landfill No. 1
Permit No. 37-43

August 8, 2022

Santek Environmental of Alabama, LLC, on behalf of the Jefferson County Commission, has applied to the Alabama Department of Environmental Management (ADEM) for modification of the Solid Waste Disposal Facility Permit for the Jefferson County Landfill No. 1. The proposed modification includes the relocation of proposed groundwater monitoring wells MW-6 and MW-9. All other permit conditions would remain the same.

The Jefferson County Landfill No. 1 is located in Sections 20, 21, 22, 28, and 29, Township 15 South, Range 3 West in Jefferson County, Alabama. The permitted facility consists of 2,025.87 acres with 163.74 acres permitted for municipal solid waste disposal and 22.15 acres permitted for construction and demolition waste disposal.

The Land Division has determined that the modification of the permit meets the applicable requirements of ADEM's Administrative Code Division 13 regulations for a municipal solid waste landfill.

Technical Contact:

Hunter Baker
Solid Waste Engineering Section
Land Division
(334) 270-5607



ALABAMA
DEPARTMENT OF ENIRONMENTAL MANAGEMENT

***SOLID WASTE DISPOSAL
FACILITY PERMIT***

PERMITTEE: Jefferson County Commission

FACILITY NAME: Jefferson County Landfill No. 1

FACILITY LOCATION: Sections 20, 21, 22, 28, and 29, Township 15 South, Range 3 West in Jefferson County, Alabama. The permitted facility boundary is approximately 2,025.87 acres with a municipal solid waste disposal area of approximately 163.74 acres and a construction/demolition waste disposal area of approximately 22.15 acres.

PERMIT NUMBER: 37-43

PERMIT TYPE: Municipal Solid Waste

WASTE APPROVED FOR DISPOSAL: For the municipal solid waste disposal area, 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 waste, rubbish, wood boiler ash, foundry sand, tires, wooden pallets, paper, trees, limbs, stumps and similar type materials. Special waste approved by ADEM may also be accepted.

For the construction and demolition waste disposal area, the Permittee may accept for disposal non-putrescible and non-hazardous construction and demolition waste, rubbish as defined by Rule 335-13-1-.03, tires, wood pallets, wood boiler ash from untreated wood, paper, trees, limbs, and stumps.

APPROVED WASTE VOLUME: Maximum Average Daily Volume of 3,000 tons per day

APPROVED SERVICE AREA: Jefferson, Bibb, Blount, St. Clair, Shelby, Tuscaloosa, and Walker Counties, including all municipalities (in whole or in part) therein, all within the State of Alabama.

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: December 27, 2018
EFFECTIVE DATE: December 28, 2018
MODIFICATION DATE: July 15, 2019, April 13, 2022, ?????
EXPIRATION DATE: December 27, 2023

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

Permittee: Jefferson County Commission
716 Richard Arrington Jr. Blvd N.
Birmingham, Alabama 35203

Landfill Name: Jefferson County Landfill No. 1

Landfill Location: Sections 20, 21, 22, 28, and 29, Township 15 South, Range 3 West in Jefferson County, Alabama

Permit No. 37-43

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 the Jefferson County Commission (hereinafter called the Permittee), to operate a solid waste disposal facility, known as Jefferson County Landfill No. 1.

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" or "335-13"). 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 September 5, 2017 for permit renewal, and as amended, and on June 17, 2019, July 9, 2019, December 3, 2021, and December 14, 2021, and as amended, for permit modification and is 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 **December 28, 2018**, as modified on **July 15, 2019**, **April 13, 2022**, and **?????**, and shall remain in effect until **December 27, 2023**, unless suspended or revoked.

Alabama Department of Environmental Management

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 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 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. A 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 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 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. The Permittee may not commence disposal of waste in a new cell or phase until the Permittee has submitted to ADEM, 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. An engineer must attest or certify that the installation, seaming, etc., as in the approved plans or layout, would meet the standards or criteria prescribed, or required by the manufacturers of the components and ADEM's regulations, and that the panels or components would be expected to perform satisfactorily, without failure, to the required standards over a normally expected lifetime or performance period for typical panels or components. ADEM must inspect the constructed cells or phases before the owner or operator can commence waste disposal unless the Permittee is notified that ADEM will waive the inspection.
13. Compliance Schedules. Reports of compliance or noncompliance with or progress reports on interim and final requirements contained in a compliance schedule required and approved by ADEM 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 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 335-13.
 - 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 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 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 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 Jefferson County Landfill No. 1 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 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 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. 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 as required by 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 Jefferson County Landfill No. 1 is approximately 2,025.87 acres with a municipal solid waste disposal area of 163.74 acres and a construction/demolition waste disposal area of 22.15 acres.
3. The maximum average daily volume of waste disposed at the facility, as contained in the permit application, shall not exceed 3,000 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 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 335-13-4-.22(2)(g).

B. Waste Streams.

For the municipal solid waste disposal area, 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 waste, rubbish, wood boiler ash, foundry sand, tires, wooden pallets, paper, trees, limbs, stumps and similar type materials. Special waste approved by ADEM may also be accepted.

For the construction and demolition waste disposal area, the Permittee may accept for disposal non-putrescible and non-hazardous construction and demolition waste, rubbish as defined by Rule 335-13-1-.03, tires, wood pallets, wood boiler ash from untreated wood, paper, trees, limbs, and stumps.

- C. Service Area. The landfill may accept waste from Jefferson, Bibb, Blount, St. Clair, Shelby, Tuscaloosa, and Walker Counties, including all municipalities (in whole or in part) therein, all within the State of Alabama.

- D. Special Waste. The Permittee may dispose of special wastes in accordance with 335-13.
1. Asbestos Waste. The Permittee shall dispose of asbestos waste in accordance with 335-13-4-.26.
 2. Foundry Sand. The Permittee shall dispose of foundry waste in accordance with 335-13-4-.26.
 3. Petroleum Contaminated Waste. The Permittee shall dispose of petroleum contaminated waste in accordance with 335-13-4-.26.
 4. Municipal Solid Waste Ash. The Permittee shall dispose of municipal solid waste ash in accordance with 335-13-4-.26.
- E. Liner Requirements. For the municipal solid waste disposal area, the Permittee shall install a composite liner system as described in the application. The composite liner system shall consist of, from bottom to top, 12 inches of compacted clay with a permeability of 1×10^{-5} cm/sec, geosynthetic clay liner, 60 mil HDPE, nonwoven geotextile fabric, and a drainage layer consisting of either of the following: 24 inches of sand with a minimum hydraulic conductivity of 1×10^{-2} cm/sec, 24 inches of crushed #57 stone, a geosynthetic drainage net and 12 inches of sand with a minimum hydraulic conductivity of 1×10^{-2} cm/sec, or a geosynthetic drainage net and crushed #57 stone. The base of the composite liner system shall be a minimum of five (5) feet above the highest measured groundwater level as determined by 335-13-4-.11(2)(a).
- For the construction and demolition waste disposal area, a liner will not be required. The bottom of the construction and demolition waste shall be a minimum of five (5) feet above the highest measured groundwater level as determined by 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 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 335-13. The Permittee has been granted approval to utilize tarps, foundry sand, petroleum contaminated soil, and automobile shredder fluff as an alternate daily cover. (See Section X., 4.).
- 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 eight feet in vertical thickness measured perpendicular to the slope of the preceding cell.
- 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 3 to 1 or as otherwise approved by ADEM (see Section X., 6.). The Permittee has been granted a variance from ADEM Rule 335-13-4-.22(1)(b) requiring the working face to be confined to as small an area as possible. The Permittee has been approved to operate two working faces at the Jefferson County Landfill No. 1. One working face will be utilized for the municipal solid waste disposal area. The other working face will be utilized for the construction and demolition waste disposal area. Both working faces must be confined to as small an area 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 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 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 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 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.

Note: Since the permitted area consists of a municipal solid waste disposal area and a construction demolition waste disposal area, the Permittee shall be required to monitor groundwater for the municipal solid waste disposal area only.

- 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 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 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 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 335-13-4-.27, in all monitoring wells identified in Section IV.A.2. to establish background water quality and/or as directed by 335-13-4-.27(2)(j) and 335-13-4-.27(2)(a)(1).
4. 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. The records and results of this sampling and analysis activity shall be submitted to ADEM, within ninety (90) days of the date of sampling.
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.

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. The Permittee may use the low-flow method for groundwater sampling as described 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.
3. The Permittee is approved for intra-well statistical analysis.

4. 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 335-13-4-.14 or Section IV.A. of this permit, the Permittee must, within 120 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		
MW-5	421.65	Cell 1
MW-7	635.75	Cell 2
Downgradient Wells		
MW-1	540.16	Cell 1
MW-2	501.56	Cell 1
MW-3	550.01	Cell 1
MW-4	531.37	Cell 1
MW-5A	473.16	Cell 2
MW-6	To be installed prior to Subcell 2-4	
MW-9	To be installed prior to Subcell 2-4	
MW-8	To be installed prior to Subcell 2-6	

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 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 335-13.

- A. Final Cover. The landfill shall be closed in accordance with the approved application and 335-13. The Permittee is granted a variance from Rule 335-13-4-.20(2)(c)2. requiring that the maximum final grade of the cover system shall not exceed 25 percent. (4:1). The Permittee is approved for 3:1 slopes as shown in the permit modification dated April 2006, April 2010, and April 2014. The Permittee is granted a variance from Rule 335-13-4-.20(2)(c)3. requiring slopes longer than 25 feet or for every 20 feet rise in elevation to have horizontal terraces. The Permittee shall be approved to construct 15 foot wide benches every 70 vertical feet and tack-on benches every 35 vertical feet as described in the permit modification dated April 2006, April 2010, and April 2014.
- 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 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. ADEM 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 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 engineer, verifying the post-closure has been completed according to the Post-Closure Plan.
- J. Notice in Deed to Property. The Permittee must provide documentation of compliance with the requirements of the Uniform Environmental Covenants Program in ADEM Admin. Code Division 335-5 and 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 ADEM 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 ADEM within 120 days after permit expiration, revocation, or as directed by ADEM as described in the Application.

- L. 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 Rule 335-13-4-.20(2)(c)2. requiring that the maximum final grade of the cover system shall not exceed 25 percent. (4:1). The Permittee is approved for 3:1 slopes as shown in the permit modification dated April 2006, April 2010, and April 2014. (See Section VIII., A.)
- 2. The Permittee is granted a variance from Rule 335-13-4-.20(2)(c)3. requiring slopes longer than 25 feet or for every 20 feet rise in elevation to have horizontal terraces. The Permittee shall be approved to construct 15 foot wide benches every 70 vertical feet and tack-on benches every 35 vertical feet as described in the permit modification dated April 2006, April 2010, and April 2014. (See Section VIII., A.)
- 3. The Permittee has been granted a variance from ADEM Rule 335-13-4-.22(1)(b) requiring the working face to be confined to as small an area as possible. The Permittee has been approved to operate two working faces at the Jefferson County Landfill No. 1. One working face will be utilized for the municipal solid waste disposal area. The other working face will be utilized for the construction and demolition waste disposal area. Both working faces must be confined to as small an area as possible. (See Section III., J.)
- 4. The Permittee has been granted approval to utilize tarps, foundry sand, petroleum contaminated soil, and automobile shredder fluff as an alternate daily cover. Tarps, foundry sand, and automobile shredder fluff 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. A minimum of six inches of foundry sand, petroleum contaminated soil, or automobile shredder fluff shall be applied as 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. (See Section III., H.)

5. The Permittee has been approved to solidify waste within the disposal area at the Jefferson County Landfill No. 1. The Permittee shall construct a solidification container and operate the solidification of the waste in a manner that is consistent with the Operational Plan. Waste shall not be removed from the solidification container for disposal until it passes the paint filter test.
6. The Permittee is granted a variance from Rule 335-13-4-.22(1)(b) requiring that the working face slope not exceed 4 to 1 (25%). The Permittee is approved for working faces not exceed 3 to 1 (33%) (See Section III., J.).

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.

Permit Application



December 8, 2021

Mr. S. Scott Story, Chief
Alabama Department of Environmental Management
Land Division
Solid Waste Engineering Section
1400 Coliseum Blvd
Montgomery, Alabama 36110

Dear Mr. Story:

Subject: Mt. Olive MSW Landfill (Jefferson County Landfill No. 1)
Permit No. 37-43
Minor Permit Modification Request to
Relocate Proposed Monitoring Well Locations MW-6 and MW-9

Please accept this letter as the formal request to modify the Jefferson County No. 1 landfill permit on behalf of Santek Environmental of Alabama, LLC (Santek). The minor modification request is to relocate two proposed monitoring well locations (MW-6 and MW-9) that are phased for installation at the site with the construction of Subcell 2-4 in accordance with Section IV (Table 1 – Groundwater Monitoring Wells) of the permit. It is anticipated that Santek will begin construction on Subcell 2-4 in January 2022 with anticipated completion in June 2022.

As shown on the attached Figure 1-Monitoring Well Location Map, the original proposed location of MW-6 is within an area that will be physically obstructed by the proposed construction of the embankment that will be adjacent to the access road south of the proposed Subcell 2-4. The original proposed location also appears to be within the 50-foot buffer of a potential aquatic resource feature. Therefore, the minor modification request is to move monitoring well location MW-6 approximately 170 feet west and hydraulically downgradient of the original proposed location in order to locate the well outside of the proposed constructed embankment and aquatic resource buffer. The new proposed location of MW-6 is shown on Figure 1. The new proposed location will remain within 150 meters (492 feet) from the waste management unit boundary.

In addition, the original proposed location of MW-9 appears to be within the 50-foot buffer of a potential aquatic resource feature. The original MW-9 location also has very limited accessibility with steep slopes on either side of the original proposed location that will make it difficult for a drill rig to access and safely install the monitoring well. Therefore, the minor modification request is to move monitoring well MW-9 approximately 150 feet west and hydraulically downgradient of the original

Mr. Story – ADEM
CEC Project 314-180
Page 2
December 8, 2021

proposed location to a point along the edge of the permanent perimeter access road of existing Cell #1. The new proposed location of MW-9 is shown on Figure 1. The new proposed location will remain within 150 meters (492 feet) from the waste management unit boundary.

A check in the amount of \$3,275 is enclosed for the minor permit modification fee.

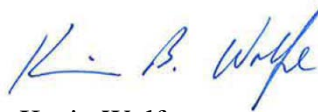
Should you have any questions, please do not hesitate to call us at (615) 333-7797.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.



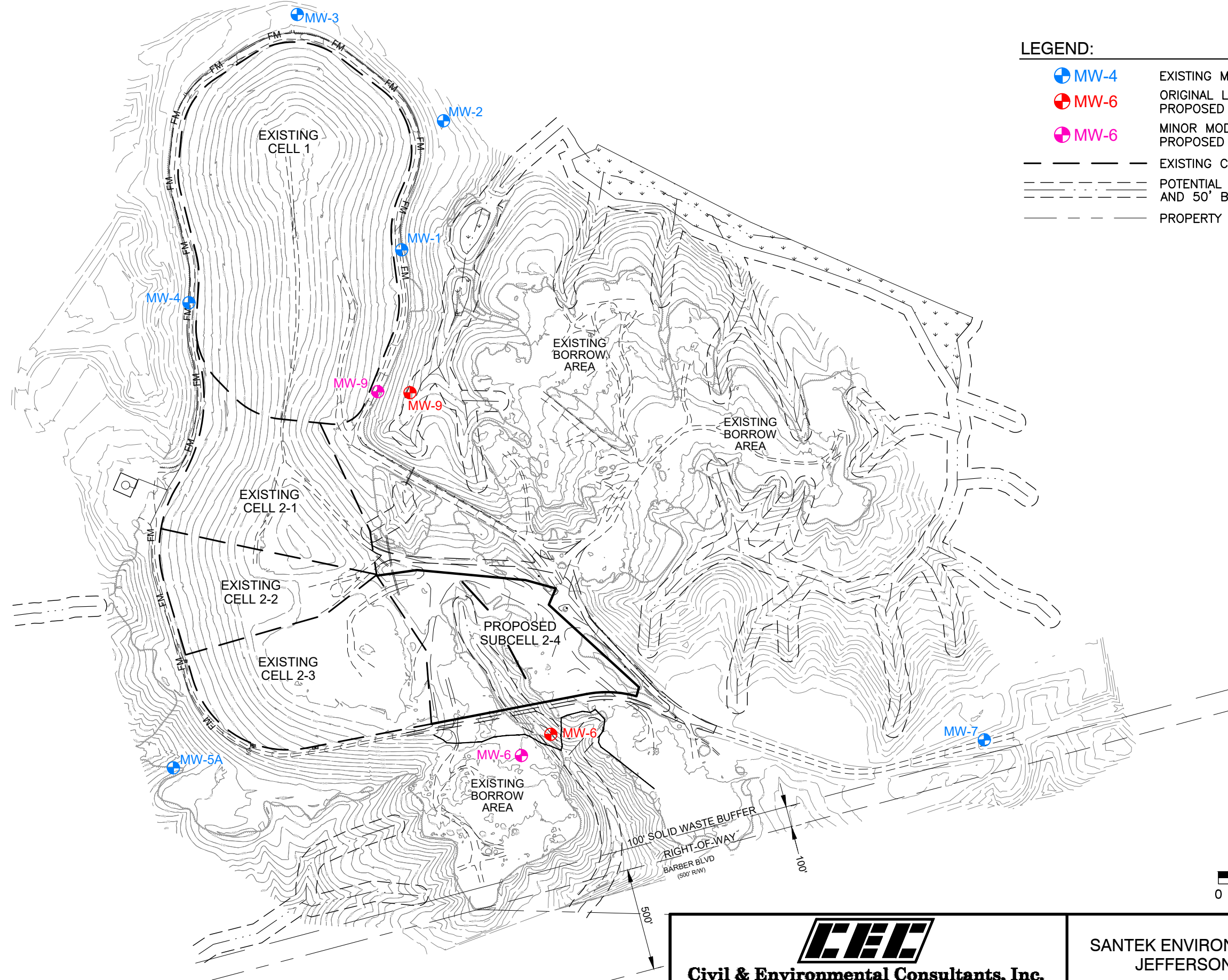
Mike Johnson
Project Manager



Kevin Wolfe
Vice President

Enclosures: Check for Permit Application Fee
Figure 1. Monitoring Well Location Map

Cc: Amber Hoffman, Environmental Manager –Santek Environmental of Alabama, LLC



- LEGEND:**
- ⊕ MW-4 EXISTING MONITORING WELL
 - ⊕ MW-6 ORIGINAL LOCATION PROPOSED MONITORING WELL
 - ⊕ MW-6 MINOR MODIFICATION LOCATION PROPOSED FOR MONITORING WELL
 - — — — — EXISTING CELL BOUNDARY
 - - - - - POTENTIAL AQUATIC RESOURCE AND 50' BUFFER
 - — — — — PROPERTY LINE



P:\310-000\314-180\CADD\Dwg\XRef\314-180_Mt Olive Subcell 2-4.dwg[FIG1] LS:(11/30/2021 - kunderwood) - LP: 12/1/2021 11:22 AM

REFERENCE

1. TOPOGRAPHIC INFORMATION TAKEN FROM OVERALL EXISTING CONDITIONS FOR SUBCELL 2-4 MOUNT OLIVE MSW LANDFILL. PLANS PREPARED BY HODGES, HARBIN, NEWBERRY & TRIBBLE, INC. DATED 09/21/2021.

CEC
Civil & Environmental Consultants, Inc.
 117 Seaboard Lane · Suite E-100 · Franklin, TN 37067
 615-333-7797 · 800-763-2326
 www.cecinc.com

SANTEK ENVIRONMETAL OF ALABAMA, LLC
 JEFFERSON COUNTY, ALABAMA

MONITORING WELL LOCATION MAP

DRAWN BY:	KLU	CHECKED BY:	MJJ	APPROVED BY:	*KBW	FIGURE NO.:	1
DATE:	DECEMBER 2021	DWG SCALE:	1"=500'	PROJECT NO.:	314-180		



March 11, 2022

Mr. S. Scott Story, Chief
Alabama Department of Environmental Management
Land Division
Solid Waste Engineering Section
1400 Coliseum Blvd
Montgomery, Alabama 36110

Dear Mr. Story:

Subject: Mt. Olive MSW Landfill (Jefferson County Landfill No. 1)
Permit No. 37-43
Supplement to Minor Permit Modification Request to
Relocate Proposed Monitoring Well Locations MW-6 and MW-9
CEC Project: 314-180

This supplemental information is being provided to ADEM in response to e-mail correspondence from the Department dated December 15, 2021 regarding the initial review of the Minor Permit Modification Request to relocate monitoring well locations MW-6 and MW-9 (dated December 8, 2021). The Department requested proposed well construction details including total depth and screened interval and the proposed well development details for review.

The attached Figure 1 and Figure 2 provide the proposed well construction details for MW-6 and MW-9, respectively, and are designed and screened at such depths as to yield groundwater samples from the first saturated zone. The proposed well construction details were prepared based on a review of existing site information included in Appendix D - Geologic/Hydrogeologic Information and Appendix E - Groundwater Monitoring Plan of the 1995 Jefferson County Landfill No.1 Subtitle D Permit Application, as well as available existing monitoring network well construction details. It is proposed that the monitoring wells will be constructed and installed following guidance located in the “*Design and Installation of Monitoring Wells in Aquifers*” (ASTM subcommittee D18.21 on Groundwater Monitoring) and Appendix B “*Monitoring Well Installation/Development/Abandonment Guidelines*” of the Alabama Environmental Investigation and Remediation Guidance (AEIRG).

The proposed well development procedures will also be in accordance with Appendix B of the AEIRG and are generally as follows:

- Wells will not be developed for at least 24 hours after the surface pad and outer protective casing are installed.
- Wells will be developed until the column of water in the well is free of visible sediment and the pH, temperature, turbidity, and specific conductivity have stabilized. In some cases, this may require continuous flushing or development activities over a period of several days.
- Well development techniques may include over-pumping, surging, backwashing, bailing, or airlift pumping, as described in Appendix B.4 of the Alabama Environmental Investigation and Remediation Guidance (AEIRG).
- An onsite geologist will make the decision as to the completion of development for each well. All field decisions will be documented in the field logbook.

A standard well development field data sheet is also included for reference and is proposed for use to document the well development procedures for MW-6 and MW-9.

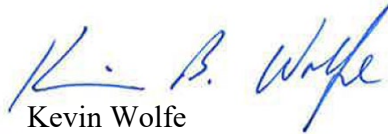
Should you have any questions, please do not hesitate to call us at (615) 333-7797.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.



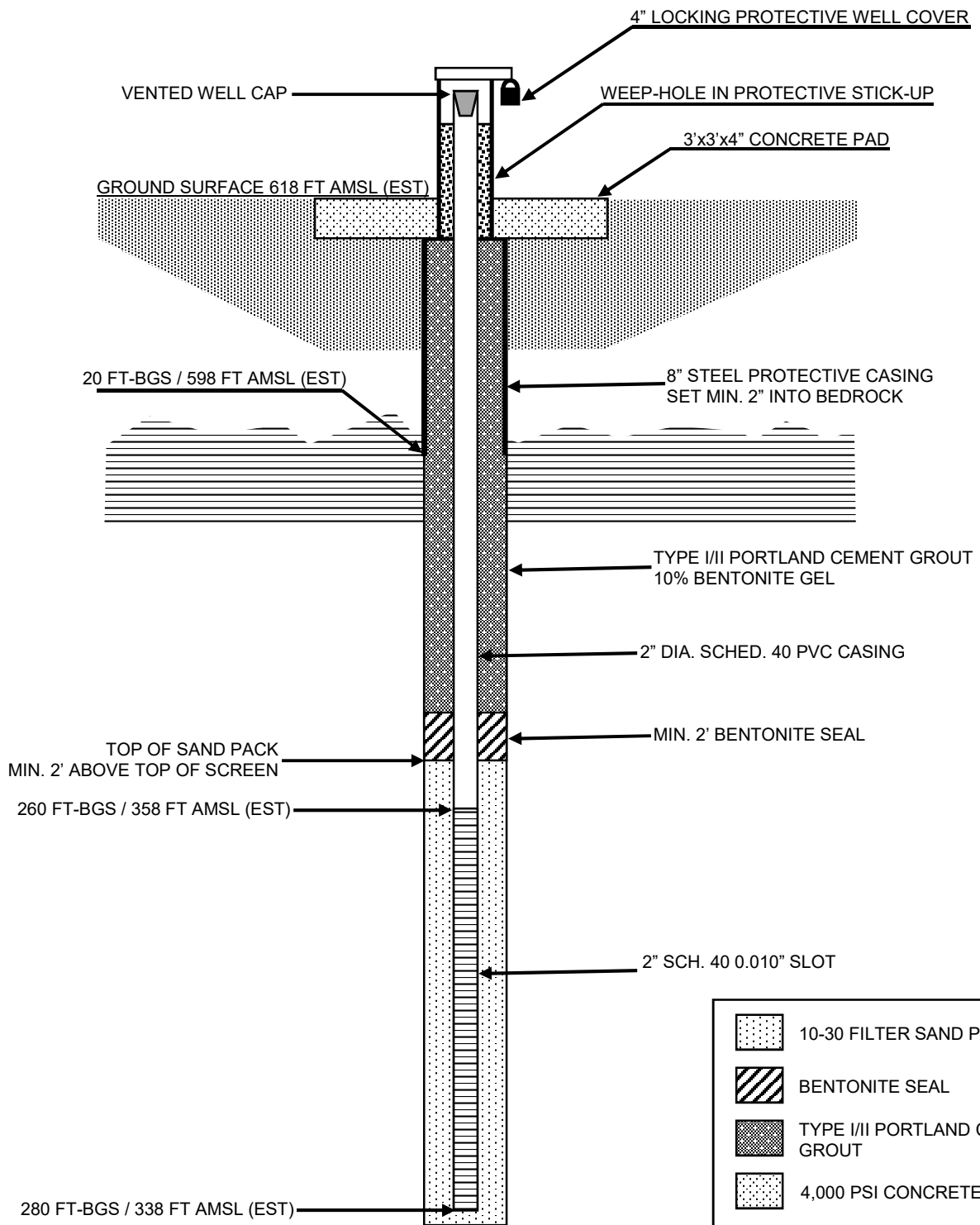
Mike Johnson
Project Manager



Kevin Wolfe
Vice President

Enclosures: Figure 1. Proposed Well Construction Details MW-6
Figure 2. Proposed Well Construction Details MW-9
Proposed Well Development Field Data Sheet

Cc: Amber Hoffman, Environmental Manager – Santek Environmental of Alabama, LLC



	10-30 FILTER SAND PACK
	BENTONITE SEAL
	TYPE I/II PORTLAND CEMENT GROUT
	4,000 PSI CONCRETE
	PEA GRAVEL

NOT TO SCALE
NOTE: ALL DEPTHS/ELEVATIONS ARE ESTIMATED



Civil & Environmental Consultants, Inc.
117 Seaboard Lane, Ste. E100 Franklin, Tennessee
615-333-7797 • 800-763-2326
www.cecinc.com

SANTEK ENVIRONMENTAL OF ALABAMA, LLC
JEFFERSON COUNTY, ALABAMA

PROPOSED WELL CONSTRUCTION DETAILS
MW-6

DRAWN BY: HOB

CHECKED BY: MJJ

APPROVED BY: KBW

FIGURE NO:

DATE: 2/25/2022

SCALE: NTS

PROJECT NO: 314-180.0004

1



December 8, 2021

Ms. Tonya Kelley, P.E.
Senior Civil Engineer
Jefferson County Commission
Environmental Services Department
Suite A-300
716 Richard Arrington, Jr. Blvd. N.
Birmingham, Alabama 35203

**RE: Minor Permit Modification
Mt. Olive MSW Landfill (Jefferson County LF No.1)
Solid Waste Permit No. 37-43**

Dear Ms. Kelley:

Please find enclosed an application for a minor modification of the solid waste permit for Mt. Olive Landfill prepared by Civil & Environmental Consultants, Inc. (CEC). This application is true and accurate to the best of my knowledge. Please review and submit to the County Manager for signature. Once signed and dated, please return the signed copy to me via email at ahoffman2@republicservices.com.

Please contact me at 205-401-1737 if you have questions or need additional information.

Sincerely,

Santek Environmental of Alabama, LLC

A handwritten signature in blue ink that reads "Amber Hoffman".

Amber Hoffman
Environmental Manager

Enclosure

SOLID WASTE DISPOSAL FACILITY
MSWLF/ILF/CCR UNIT PERMIT APPLICATION PACKAGE

January 16, 2018

MEMORANDUM

TO: Applicants Seeking a Permit for Solid Waste Facilities

FROM: Stephen A. Cobb, Chief
Land Division
Alabama Department of Environmental Management

RE: Processing Solid Waste Permits by ADEM

Any permit issued by ADEM must be in accordance with §22-27-48 and §22-27-48.1 Code of Alabama. This section indicates that ADEM may not consider an application for a new or modified permit unless such application has received approval by the affected unit of local government having an approved plan. ADEM, therefore, will require the following before it can process a new or modified permit application:

1. The local government having jurisdiction must approve the permit application in accordance with §22-27-48 and §22-27-48.1 Code of Alabama.
2. Local governments should follow the procedures outlined in §22-27-48 and §22-27-48.1 Code of Alabama and the siting standards included in the local approved plan in considering approval of a facility.

This procedure applies to applications for new or modified permits. ADEM cannot review an application unless it includes approval from the affected local government. This procedure shall not apply to exempted industrial landfills receiving waste generated on site only by the permittee.

Please contact the Solid Waste Branch of ADEM at (334) 274-4201 if there are any questions.

SAC/sss/abj

SOLID WASTE APPLICATION

PERMIT APPLICATION
SOLID WASTE DISPOSAL FACILITY
ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
(Submit in Triplicate)

1. Facility type: _____ Municipal Solid Waste Landfill (MSWLF)
_____ Industrial Landfill (ILF)
_____ CCR Landfill (CCRLF)
_____ CCR Surface Impoundment (CCRSI)
_____ Other (explain) _____

2. Facility Name _____

3. Applicant:

Name: _____

Address: _____

Telephone: _____

4. Location: (include county highway map or USGS map)

Township _____ Range _____
Section _____ County _____

5. Land Owner:

Name: _____

Address: _____

Telephone: _____

(Attach copy of agreement from landowner if applicable.)

6. Contact Person:

Name Amber Hoffman

Position or Affiliation Santek Environmental of Alabama, LLC

Address: 2730 Bryan Road, Dora, Alabama 35062

Telephone: 205-401-1737

7. Size of Facility:

2,025.87 Acres

Size of Disposal Area(s):

163.74 Acres

8. Identify proposed service area or specific industry that waste will be received from:

Jefferson, Bibb, Blount, Shelby, St. Clair, Tuscaloosa and Walker Counties,
including all municipalities (in whole or in part) therein.

9. Proposed maximum average daily volume to be received at landfill (choose one):

3000 Tons/Day _____ Cubic Yards/Day

10. List all waste streams to be accepted at the facility (i.e., household solid waste, wood boiler ash, tires, trees, limbs, stumps, etc.):

Household garbage, commercial waste, industrial waste, construction and demolition
waste, rubbish, wood boiler ash, foundry sand, tires, wooden pallets, paper,
stumps and similar type materials, and also including special waste as approved by ADEM.



SIGNATURE

12-14-21

DATE

ADDITIONAL REQUIRED INFORMATION

Applicants seeking to obtain a permit to construct and/or continue to operate a municipal solid waste (MSW) landfill, industrial landfill, coal combustion residuals (CCR) landfill, or CCR surface impoundment are required to submit additional information as part of the Solid Waste Disposal Facility Permit Application. These additional information requirements vary depending on the facility type.

For new and existing landfill units, refer to ADEM Admin Code 335-13-5-.02 for a list of additional information to be submitted in the permit application. Some requirements apply only to MSW landfills and CCR landfills, while other requirements apply to industrial landfills. You need only to address the requirements that pertain to your type landfill. For new and existing CCR surface impoundments, refer to ADEM Admin Code 335-13-15-.09 for additional information to be submitted in the permit application.

Each rule that is applicable to your type landfill or surface impoundment must be addressed in detail in the operational narrative and/or engineering drawings before the review process can be completed. All operational narratives, engineering drawings, survey maps and legal descriptions are to be prepared by licensed engineers or surveyors registered in the State of Alabama and with their stamp or seal on each drawing/map and cover of the narrative.

Act No. 89-824 Section 9(a) states "The department may not consider an application for a new or modified permit for a facility unless such application has received approval by the affected unit of local government having an approved plan." This document must be received by the Department prior to processing the application.

The referenced rules are covered in greater detail in ADEM's Administrative Code, Division 13. Clarification can be obtained by reviewing the regulations. Copies of the ADEM Administrative Code, Division 13 regulations, can be obtained for a fee by contacting ADEM's Permits and Services Division. If the Department can answer any questions, please contact the Solid Waste Branch at (334) 274-4201.

DATA TO BE SUBMITTED ON ALL LANDFILLS REQUIRING A GEOLOGICAL EVALUATION

The following items must be submitted along with the permit application. This data is necessary for ADEM to determine if the proposed landfill site is suitable from a geological standpoint.

- a. Conduct a water well survey to a minimum of 1 mile from the perimeter of the proposed landfill or expansion.
 1. Locate water wells on a USGS 7.5 minute topographic map.
 2. Provide corresponding names and addresses of well owners.
 3. Determine the depth of the well and the static water level. Specify whether these data were determined by measurement or interview.
- b. Conduct borings and/or pit excavations to establish site geology and hydrology at least to the mean annual water table or bedrock.
 1. Locate soil borings or excavation pits on a USGS 7.5 minute topographic map.
 2. Provide a log of excavation which includes the following:
 - Foot by foot soil classification by the Unified Soil Classification System (USCS).
 - Elevation at which groundwater or bedrock was observed.
 - Elevation of groundwater after 24 hours.
- c. Sample soil material from test borings or pit excavations for the following tests:
 1. Proctor density 90%-95% for liner material, 85%-90% for cover material.
 2. Permeability in cm/sec at the item (1) densities.
- d. Construct the following maps:
 1. Potentiometric map using general elevations established after 24 hours.
 2. Regional map to a minimum of 1 mile from the perimeter indicating geology, structural features such as faults, etc.
 3. Cross sections using borings and/or excavation pits of site.
- e. Any additional information deemed necessary to properly evaluate the site.



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

June 22, 2022

MEMORANDUM

To: Jared Kelly, Chief
Engineering Section
Solid Waste Branch

Through: Billie Jean Wascher, Chief *BJW*
Groundwater Protection Unit
Groundwater Branch

Through: Hunter Baker *DHB*
Engineering Section
Solid Waste Branch

From: Gigi Copeland *GMC*
Groundwater Protection Unit
Groundwater Branch

RE: Minor Permit Modification Request to Relocate Proposed Monitoring Well Locations MW-6 and MW-9
Jefferson County LF No. 1 #37-43
Jefferson County, Alabama

Summary

The Department received the Minor Permit Modification Request to Relocate Proposed Monitoring Well Locations MW-6 and MW-9 (MPMR) dated December 8, 2021, and the Supplement to that request dated March 11, 2022, for the Solid Waste Facility #37-43. The submittal was prepared by Civil & Environmental Consultants, Inc. (CEC) for Santek Environmental of Alabama, LLC (Santek) to relocate two proposed monitoring well locations (MW-6 and MW-9) submitted for installation in association with the construction of proposed Subcell 2-4 for the landfill. The ADEM Solid Waste Branch requested that the Groundwater Branch evaluate the submittal and provide pertinent comments and recommendations. This report is a result of that request.



Comments and Recommendations

- 1) The proposed alternate location of monitoring well MW-6 appears to be the closest practicable downgradient location to install a monitoring well near the southern boundary of Subcell 2-4, and therefore, the Groundwater Branch concurs with the proposed location.
- 2) The proposed alternate location of monitoring well MW-9 appears suitable to monitor the eastern boundary of existing Cell 1.

JEFFERSON COUNTY COMMISSION



JAMES A. "JIMMIE" STEPHENS – PRESIDENT
LASHUNDA SCALES
SHEILA TYSON
T. JOE KNIGHT
STEVE AMMONS

CAL MARKERT

CHIEF EXECUTIVE OFFICER

ENVIRONMENTAL SERVICES DEPARTMENT
SUITE A300
716 Richard Arrington Jr. Blvd. N
Birmingham, Alabama 35203
Telephone (205) 325-5496
Fax (205) 325-5981

July 18, 2022

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

Re: Permit Modification Application for Jefferson County Landfill No. 1 (Permit No. 37-43)

Dear Mr. Story:

In response to the Department's request dated June 23, 2022, please let this letter serve as verification from the local host government that the application to modify Permit No. 37-43 (Jefferson County Landfill No. 1), dated March 11, 2022, does not require local review and approval. The application proposes to relocate two monitoring well locations in order to maintain compliance with applicable statutes and regulations.

Please feel free to contact me with any questions.

Sincerely,

Cal Markert
Chief Executive Officer
Jefferson County

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

May 9, 2022

9489 0090 0027 6203 5897 82

MEMORANDUM

TO: Solid Waste Management Landfill Permittees

FROM: S. Scott Story, Chief *SSS*
Solid Waste Branch
ADEM Land Division

RE: Local Government Approval Statute

This memorandum seeks to provide further detail about which modifications will require local host government approval pursuant to the Code of Alabama 1975 22-27-48 (Ala. Code) and to clarify the process involved in obtaining approval before petitioning the Department. Section 22-27-48(d) of the Ala. Code states that "...local approval shall not apply to simple renewals of a permit which is to be otherwise unchanged..." and that "...there shall be no requirement for local review and approval of permit modifications for the limited purposes of...":

- "...changing liner and leachate collection design...";
- "...changes in waste streams from within the facility's designated service area...";
- "...changes in sequence of fill...";
- "...changes to incorporate new technology..."; and
- "...changes intended to bring a facility into compliance with statutes and regulations".

All other major and minor modifications are subject to the local government approval process.

Once approval from the local government for the modified solid waste site has been obtained, the permittee may submit an application to the Department requesting a modification following the process outlined in ADEM Admin. Code 335-13-5-.06(3), including the submittal of applicable fees and identification of adjacent landowners (if the permit modification requires public notice).

Permittees should also remember that local host governments not covered by a current Solid Waste Management Plan (SWMP) due to expiration or revocation will not be able to rule on any proposed solid waste site modifications until the local host government has obtained approval on a new or updated SWMP from the Department.



RECEIVED

5-16-2022 2:31pm

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)

LANCE R. LEFLEUR
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June 23, 2022

Mr. Josh Allen
101 Barber Blvd.
Gardendale, AL 35071

RE: Minor Permit Modification Application
Jefferson County Landfill No. 1
Permit No. 37-43

Dear Mr. Allen:

The Solid Waste Branch is in receipt of a minor permit modification application for the purpose of relocating two groundwater monitoring wells for the Jefferson County Landfill No. 1. The Department requests verification from the local host government as to whether the local approval requirements for the minor permit modification per Code of Alabama §22-27-48 have been met. Once ADEM has received documentation from the Jefferson County Commission that local approval requirements have been met, ADEM will begin its review of the minor permit modification application.

Also, the Jefferson County Commission should also remember that local host governments not covered by a current Solid Waste Management Plan (SWMP) due to expiration or revocation will not be able to rule on any proposed solid waste site modifications until the local host government has obtained approval from the Department on a new or updated SWMP.

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

Sincerely,

A handwritten signature in blue ink, appearing to read "S. Scott Story".

S. Scott Story, Chief
Solid Waste Branch
Land Division

SSS/hb

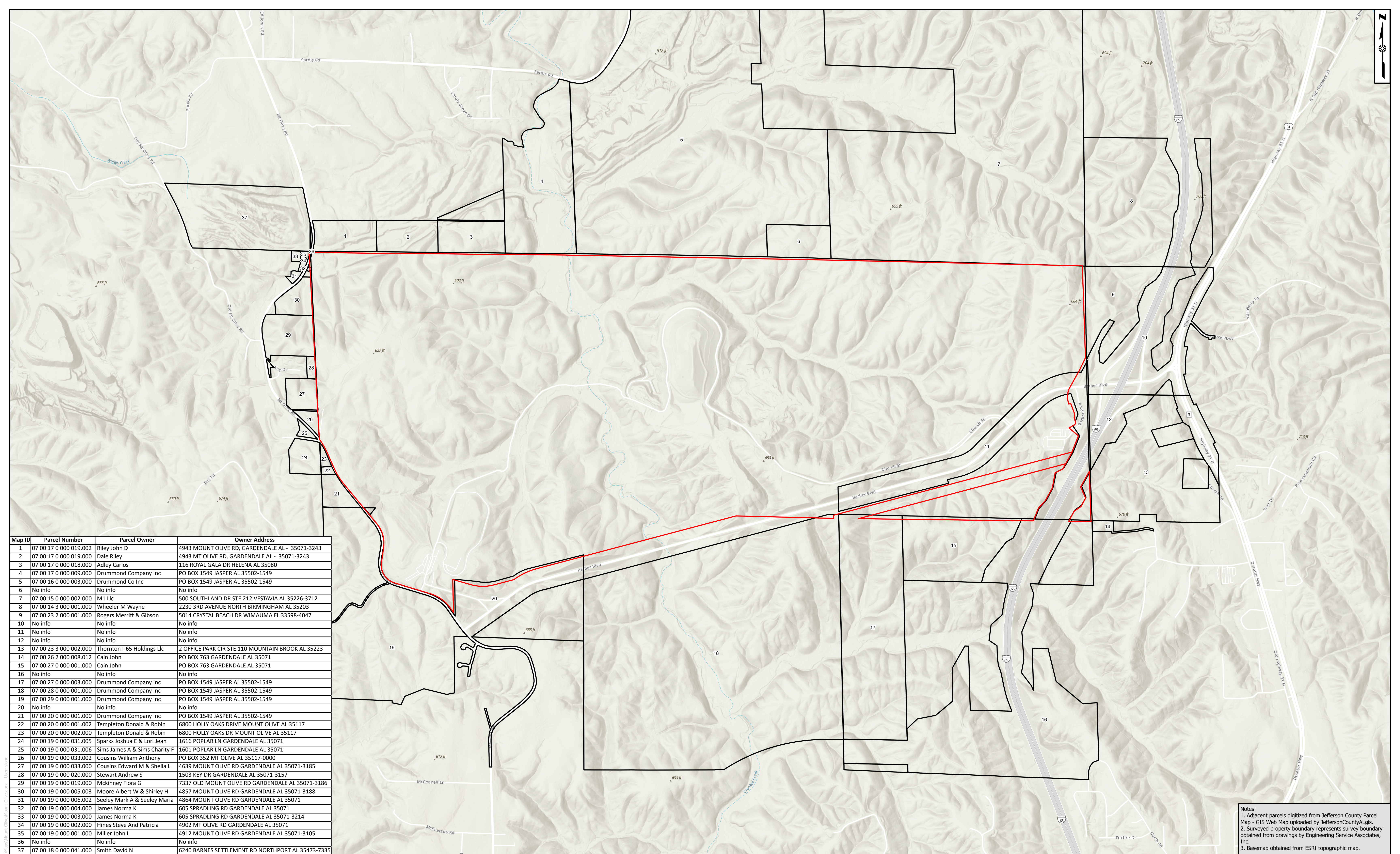
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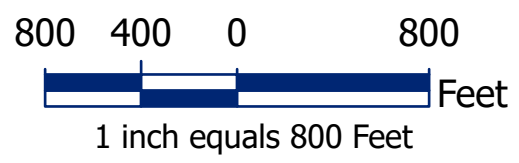
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3664 Dauphin Street, Suite B
Mobile, AL 36608
(251) 304-1176
(251) 304-1189 (FAX)



Map ID	Parcel Number	Parcel Owner	Owner Address
1	07 00 17 0 000 019.002	Riley John D	4943 MOUNT OLIVE RD, GARDENDALE AL - 35071-3243
2	07 00 17 0 000 019.000	Dale Riley	4943 MT OLIVE RD, GARDENDALE AL - 35071-3243
3	07 00 17 0 000 018.000	Adley Carlos	116 ROYAL GALA DR HELENA AL 35080
4	07 00 17 0 000 009.000	Drummond Company Inc	PO BOX 1549 JASPER AL 35502-1549
5	07 00 16 0 000 003.000	Drummond Co Inc	PO BOX 1549 JASPER AL 35502-1549
6	No info	No info	No info
7	07 00 15 0 000 002.000	M1 Lic	500 SOUTHLAND DR STE 212 VESTAVIA AL 35226-3712
8	07 00 14 3 000 001.000	Wheeler M Wayne	2230 3RD AVENUE NORTH BIRMINGHAM AL 35203
9	07 00 23 2 000 001.000	Rogers Merritt & Gibson	5014 CRYSTAL BEACH DR WIMAUMA FL 33598-4047
10	No info	No info	No info
11	No info	No info	No info
12	No info	No info	No info
13	07 00 23 3 000 002.000	Thornton I-65 Holdings Llc	2 OFFICE PARK CIR STE 110 MOUNTAIN BROOK AL 35223
14	07 00 26 2 000 008.012	Cain John	PO BOX 763 GARDENDALE AL 35071
15	07 00 27 0 000 001.000	Cain John	PO BOX 763 GARDENDALE AL 35071
16	No info	No info	No info
17	07 00 27 0 000 003.000	Drummond Company Inc	PO BOX 1549 JASPER AL 35502-1549
18	07 00 28 0 000 001.000	Drummond Company Inc	PO BOX 1549 JASPER AL 35502-1549
19	07 00 29 0 000 001.000	Drummond Company Inc	PO BOX 1549 JASPER AL 35502-1549
20	No info	No info	No info
21	07 00 20 0 000 001.000	Drummond Company Inc	PO BOX 1549 JASPER AL 35502-1549
22	07 00 20 0 000 001.002	Templeton Donald & Robin	6800 HOLLY OAKS DRIVE MOUNT OLIVE AL 35117
23	07 00 20 0 000 002.000	Templeton Donald & Robin	6800 HOLLY OAKS DR MOUNT OLIVE AL 35117
24	07 00 19 0 000 031.005	Sparks Joshua E & Lori Jean	1616 POPLAR LN GARDENDALE AL 35071
25	07 00 19 0 000 031.006	Sims James A & Sims Charity F	1601 POPLAR LN GARDENDALE AL 35071
26	07 00 19 0 000 033.002	Cousins William Anthony	PO BOX 352 MT OLIVE AL 35117-0000
27	07 00 19 0 000 033.000	Cousins Edward M & Sheila L	4639 MOUNT OLIVE RD GARDENDALE AL 35071-3185
28	07 00 19 0 000 020.000	Stewart Andrew S	1503 KEY DR GARDENDALE AL 35071-3157
29	07 00 19 0 000 019.000	McKinney Flora G	7337 OLD MOUNT OLIVE RD GARDENDALE AL 35071-3186
30	07 00 19 0 000 005.003	Moore Albert W & Shirley H	4857 MOUNT OLIVE RD GARDENDALE AL 35071-3188
31	07 00 19 0 000 006.002	Seeley Mark A & Seeley Maria	4864 MOUNT OLIVE RD GARDENDALE AL 35071
32	07 00 19 0 000 004.000	James Norma K	605 SPRADLING RD GARDENDALE AL 35071
33	07 00 19 0 000 003.000	James Norma K	605 SPRADLING RD GARDENDALE AL 35071-3214
34	07 00 19 0 000 002.000	Hines Steve And Patricia	4902 MT OLIVE RD GARDENDALE AL 35071
35	07 00 19 0 000 001.000	Miller John L	4912 MOUNT OLIVE RD GARDENDALE AL 35071-3105
36	No info	No info	No info
37	07 00 18 0 000 041.000	Smith David N	6240 BARNES SETTLEMENT RD NORTHPORT AL 35473-7335

Adjacent Property Owners
 Mount Olive Landfill
 Santek Environmental of Alabama, LLC
 Jefferson County, AL
 7/25/2022



DISCLAIMER:
 This drawing and the information contained herein is for general presentation purposes only and is a compilation of shapefile(s) provided by various source(s). The source and accuracy of the file(s) has not been verified by HHNT and therefore the drawing is not intended for use as an engineering drawing of for design purposes.

Legend
 — Surveyed Property Boundary
 □ Adjacent Parcels

Notes:
 1. Adjacent parcels digitized from Jefferson County Parcel Map - GIS Web Map uploaded by JeffersonCountyALGIS.
 2. Surveyed property boundary represents survey boundary obtained from drawings by Engineering Service Associates, Inc.
 3. Basemap obtained from ESRI topographic map.

